AAPM 2024

66TH ANNUAL MEETING & EXHIBITION JULY 21–25 | LOS ANGELES, CA

EMBRACING CHANGE. **IMPACTING** PATIENT CARE.

Awards Ceremony

MONDAY, JULY 22, 2024 | 6:30 PM
PLATINUM BALLROOM
JW MARRIOTT LOS ANGELES

AMERICAN ASSOCIATION *of* PHYSICISTS IN MEDICINE

The American Association of Physicists in Medicine is the premier organization in medical physics, a broadly-based scientific and professional discipline encompassing physics principles and applications in biology and medicine.

The mission of the American Association of Physicists in Medicine is advancing medicine through excellence in the science, education, and professional practice of medical physics.


Welcome

2024 Program

Todd Pawlicki, PhD, FAAPM
AAPM President

Honoring Deceased AAPM Members

AAPM Fellowships, Grants, and Other Awards

MedPhys Slam

Grand Challenges

Jack Fowler Early-Career Investigator Award

Jack Krohmer Early-Career Investigator Award

John R. Cameron Early-Career Investigator Symposium Awards

Arthur Boyer Award for Innovation in Medical Physics Education

Journal of Applied Clinical Medical Physics Best Paper Awards

- Edwin C. McCullough Award of Excellence for an Outstanding Medical Imaging Physics Article
- George Starkschall Award of Excellence for an Outstanding Radiation Oncology Physics Article
- Peter R. Almond Award of Excellence for an Outstanding Radiation Measurements Article
- Michael D. Mills Editor in Chief Award of Excellence for an Outstanding General Medical Physics Article

Medical Physics Journal Best Paper Awards

- Farrington Daniels Paper Award
- Moses and Sylvia Greenfield Paper Award

Recognition of 50+ Years of AAPM Membership

Honorary Membership

Fellows

John S. Laughlin Early-Career Scientist Award

Marvin M.D. Williams Professional Achievement Award

Edith H. Quimby Lifetime Achievement Award

William D. Coolidge Gold Medal

Closing Remarks; Reception Immediately Following

The American Association of Physicists in Medicine is the premier organization in medical physics, a broadly-based scientific and professional discipline encompassing physics principles and applications in biology and medicine.

The mission of the American Association of Physicists in Medicine is advancing medicine through excellence in the science, education, and professional practice of medical physics.

AAPM FELLOWSHIPS, GRANTS AND OTHER AWARDS

AAPM/RSNA Doctoral and Masters Graduate Fellowship

Four $10,000 Doctoral Awards

- Two awards for first year Doctoral Students. The recipients are:

  Qingying Wang — UT Southwestern Medical Center

  Odette Rios Ibacache — McGill University

- Two awards for second year or higher Doctoral Students. The recipients are:

  Ruiyan Ni — University of Toronto

  Hunter Mehrens — MD Anderson Cancer Center

- Awarded to a first or second year MS students. The recipients are:

  Adia Holtman — University of Kentucky

  Bolin Li — University of Pennsylvania

  Nathan M. Clements — University of Victoria

ASTRO-AAPM Physics Resident/Post-Doctoral Fellow Seed Grant

The Physics Seed Grant is a joint effort to advance the field of radiation oncology in novel ways through the support of talented early-career scientists performing physics and radiation oncology-related research. The aim of the Physics Seed grant is to support the next generation of researchers. The recipients for 2024 are:

David P. Adam — Johns Hopkins University

Nolan Esplen — MD Anderson Cancer Center

2024 DREAM — Diversity Recruitment through Education and Mentoring Program

The American Association of Physicists in Medicine (AAPM) Diversity Recruitment through Education and Mentoring Program (DREAM) is a 10-week summer program designed to increase the number of underrepresented groups in medical physics by creating new opportunities, outreach and mentoring geared towards diversity recruitment of undergraduate students in the field of medical physics. Students participating in the program are placed into summer positions that are consistent with their interests. Students are selected for the program on a competitive basis to be a DREAM fellow. Each DREAM fellow receives a $6,000 stipend from AAPM. Additional funding provided by the AAPM Northwest Chapter, the AAPM Southwest Chapter and the AAPM Southeast Chapter. The DREAM fellows for 2024 are:

Benjamin Awad

Careesa Billante

Adward Frazier

Rory Miller II

Hannah Williams

Elizabeth Batchelar

Darya Chaharom

Alejandro Martinez

Bryanna Stalnaker

Research Seed Funding Grant

These grants are awarded to provide funds to develop exciting investigator-initiated concepts, which will hopefully lead to successful long-term project funding from the NIH or equivalent funding sources. It is expected that subsequent research results will be submitted for presentation at future AAPM meetings. The recipients for 2024 are:

Zhuoran Jiang, PhD — Stanford University

Meixu Chen, PhD — UT Southwestern Medical Center

Benjamin Lopez, PhD — MD Anderson Cancer Center

Poliana Marinello, PhD — MD Anderson Cancer Center

Global Health Research Seed Funding Grant

This grant is awarded to provide funds to develop exciting investigator-initiated concepts focused on global health research.

Afua Yorke, PhD — University of Washington Medical Center

AAPM/RSNA Imaging Physics Residency Program Grant

These grant awards, funded by AAPM and RSNA, provide support for institutions to provide positions in Diagnostic Imaging Physics and/or Nuclear Medicine Physics residencies. Each year two deserving high quality residency programs are selected to receive support for two residents, each to receive matching support during their training. The 2024 awardees are:

The University of Texas Health Sciences Center at Houston/McGovern Medical School (Director: Janet Ching-Mei Feng, PhD)

University of Pittsburgh/UPMC (Director: John Holmes, DMP)

Summer Undergraduate Fellowships

Designed to provide opportunities for undergraduate university students to gain experience in medical physics by performing research in a medical physics laboratory or assisting with clinical service at a clinical facility.

In this program, AAPM serves as a clearinghouse to match exceptional students with exceptional medical physicists, many of whom are faculty at leading research centers. Students participating in the 10-week program are placed into summer positions consistent with their interests. Students are selected for the program on a competitive basis to be an AAPM Summer fellow. Each summer fellow receives a $6,000 stipend from AAPM. In 2024, the AAPM Northwest Chapter provided additional support. The Summer Undergraduate fellows for 2024 are:

Aydin Aghaie	***Kaitlyn Atwood***
Brett Bocian	***Alex Culver***
Zach Ehret	***Vivian Felso***
Abigail Green	***Fahd Hatoum***
Katherine Hazelwood	***Taliah Lansing***
Nayoon Lee	***Bernadette Lesieur***
Grace Nehring	***Joshua Pan***
Yurok Song	***Claire Tran***

Summer School Tuition Scholarships

These scholarships are offered to applicants who are early in their careers in medical physics. The 2024 scholarship recipients are:

Yao Chen	***Evan Porter***
Austin Sloop	***Kaley Woods***

The AAPM Expanding Horizons Travel Grant

The Expanding Horizons Travel Grant program is designed to provide students and trainees with an opportunity to broaden the scope of scientific meetings attended in their career. The proposed meeting should introduce new and relevant topics which may ultimately be incorporated into current or future medical physics research and progress the field in new directions. The recipients of the 2023 Round 2, 2024 Round 1, and 2024 Round 2 are:

2023 Round 2 Recipients:

Morgan Daly	***Robert Dawson***
Shixian Du	***Seohan Kim***

2024 Round 1 Recipients:

Ngara Bird	***Shaojie Chang***
Geneva Schlafly	***Zakery Simpson***

2024 Round 2 Recipients:

Wesley Cunningham	***Jun Hong***
Zi Yang	***Jingtong Zhao***

The AAPM Science Council Associates Mentorship Program

This program has been established to recognize and cultivate outstanding researchers at an early stage in their careers, with the goal of promoting a long-term commitment to science within AAPM. The program uses the process of "shadowing" to integrate the Associates into the scientific activities of the organization. The 2024 Associates are:

Claire Park, PhD — Harvard Medical School

Daniel Alexander, PhD — University of Pennsylvania

Emily Hewson, PhD — The University of Sydney

Emily Thompson, PhD — MD Anderson Cancer Center

Soleil Hernandez, PhD — University of Colorado Anschutz Medical Campus

Sudharsan Madhavan, PhD — Memorial Sloan Kettering Cancer Center

Sunan Cui, PhD — University of Washington

Zi Yang, PhD — Stanford University

The AAPM International Council Associates Mentorship Program

ICAMP was established in 2024 to promote long-term commitment to global health and international activities within AAPM. ICAMP uses a mentorship and shadowing model, allowing Associates to engage and participate with the International Council and its related internationally focused activities. The 2024 Associates are:

Kricia Ruano Espinoza, MS — West Physics

Mary Gronberg, PhD — UT Southwestern Medical Center

Kai Huang, PhD — University of Maryland Medical Center

Williams Igoniye, MS — University of Port Harcourt Teaching Hospital

Ikechi Ozoemelam, PhD — University of Michigan

William Swanson, PhD — Weill Cornell Medicine

AAPM Best Medical International Awards

A Travel Fellowship for AAPM Associate or Associate-Student members to attend the AAPM Annual Meeting, to be exposed to, and have access to the scientific and technical information and presentations on current and emerging topics in medical physics and related areas. The 2024 Travel Fellowship recipients are:

Amal Aziz
Chris Beekman
Christian Gibson
Mason Heath
Rebecca Lim
Mandira Manandhar
Toby Morris
Oscar Pastor-Serrano
Atharva Peshkar
Mitchell Yu

MEDPHYS SLAM

The MedPhys Slam is a research communication competition in which participants present the significance of their science in a concise, compelling yet understandable manner. On Wednesday, July 24th, from 1:30 - 3:30 PM participants will be judged by a non-physicist panel on three equally weighted categories: comprehension/content, communication, and engagement.

1st Place & People's Choice:
***Zaphanlene Kaffey* — A Glimpse into the Future: Predicting Patient Outcome in Cancer Care**

2nd Place:
***Claudia Miller* — 5DCT: The Next Generation of Lung Imaging**

3rd Place:
***Meghana Ramani* — No More Metallica: Rocking out with Artifact Reduction in Cone Beam CT**

3rd Place:
***Roman Vasyltsiv* — Shedding Light on Cancer Treatment: The Colors of Cherenkov!**

GRAND CHALLENGES

The 2023-24 CT Metal Artifact Reduction (CT-MAR) Grand Challenge

The CT-MAR Challenge was aimed at distributing a clinically representative benchmark for evaluation of CT MAR algorithms, as there is a major need for a universal CT MAR image quality benchmark to evaluate the clinical impact of new MAR methods in a wide range of applications and compare them to state-of-the-art MAR algorithms. The top-performing team(s) presented on their methods during the AAPM Grand Challenge Symposium.

Organizers: Eri Haneda, PhD (Lead Organizer) (GE HealthCare Technology & Innovation Center), Bruno De Man, PhD (GE HealthCare Technology & Innovation Center), Wenjun Xia (Rensselaer Polytechnic Institute), Ge Wang, PhD (Rensselaer Polytechnic Institute), Nils Peters, PhD (Massachusetts General Hospital), Harald Paganetti, PhD (Massachusetts General Hospital), the AAPM Working Group on Grand Challenges.

Winning Team:

School of Biomedical Engineering, Southern Medical University | Guangdong, China
Yi Guo, Jianhua Ma, PhD, Yongbo Wang, PhD, Zhaoying Bian, PhD, Dong Zeng, PhD

Runner-Up Team:

National Institute for Mathematical Sciences | South Korea
Hyoung Suk Park, PhD, Kiwan Jeon, PhD

The 2024 Quantitative Intravoxel Incoherent Motion Diffusion MRI Reconstruction (IVIM-dMRI) Grand Challenge

The IVIM-dMRI Challenge invited participants to submit both deep learning (DL) and non-DL approaches to the development of image reconstruction and model fitting methods to improve the accuracy and robustness of quantitative parameter estimation for the widely used IVIM model of dMRI. Organizers then evaluated whether DGMs can faithfully reproduce statistics relevant to medical imaging by comparing deep-learning generated images to model-generated images using a similarity score that summarized morphological and intensity-derived statistical measures as well as breast-density features. The top-performing team(s) presented on their methods during the AAPM Grand Challenge Symposium.

Organizers: Xun Jia, PhD, FAAPM (Lead Organizer) (Johns Hopkins University School of Medicine), Jie Deng, PhD. (University of Texas Southwestern Medical Center), Junghoon Lee, PhD (Johns Hopkins University School of Medicine), Ahad Ollah Ezzati, PhD (Johns Hopkins University School of Medicine), Yan Dai (University of Texas Southwestern Medical Center), Xiaoyu Hu, PhD (Johns Hopkins University School of Medicine) the AAPM Working Group on Grand Challenges

Winning Team:

Shanghai Key Laboratory of Magnetic Resonance, East China Normal University | China
Haibin Xie, PhD, Liwen Jiang, Guang Yang, PhD

Runner-Up Team:

University of Sydney | Australia
Yu Sun, PhD, Sirisha Tadimalla, PhD, Yu-Feng Wang, PhD

Early Career Investigator in Imaging Travel Award

The Science Council has established a travel award administered by the Research Committee to support the attendance of an early-career, research-oriented AAPM member to participate in the Medical Imaging Technology Showcase (MedTech), sponsored by the Academy of Radiology and Biomedical Imaging Research (the Academy). Awardees become part of the Academy's Council of Early Career Investigators in Imaging (CECI^2) and in turn participate in a year of both virtual and in-person training sessions and meetings, along with advocating in Washington, DC for federal investments in imaging research. The CECI^2 program also serves as a valuable networking and educational resource for its members.

Hao Zhang, PhD — Memorial Sloan Kettering Cancer Center, New York, NY

JACK FOWLER EARLY-CAREER INVESTIGATOR AWARD

Established in honor of Dr. Jack Fowler, PhD, Emeritus Professor of Human Oncology and Medical Physics, University of Wisconsin. Early-Career Investigators were encouraged to submit abstracts for the competition. The top scoring submission determined by abstract reviewers was selected and the award is presented to:

Amrit Kaphle, PhD — MD Anderson Cancer Center, Houston, TX

JACK KROHMER EARLY-CAREER INVESTIGATOR AWARD

Established in honor of Dr. Jack Krohmer, PhD, a pioneer in the medical physics community, and sponsored by the Krohmer Memorial Fund and Science Council through the AAPM Education and Research Fund. The award is based on abstracts submitted to the Scientific Program of the AAPM Annual Meeting, judged according to criteria of significance, innovation, and the potential for major scientific impact in an area of cutting edge interest in medical physics. The 2024 award is presented to:

Xiaoyu Hu, PhD — Johns Hopkins University, Baltimore, MD

JOHN R. CAMERON EARLY-CAREER INVESTIGATOR SYMPOSIUM AWARDS

The 10 Early-Career Investigator submissions scored highest by abstract reviews were selected to be presented in a special symposium, held early today, in honor of the University of Wisconsin Professor Emeritus John R. Cameron, PhD.

3rd Place:

***Rebecca Lim* — University of Texas MD Anderson Cancer Center for the abstract entitled: "Correlating Ventilation Change over Treatment with Toxicity and Dose in Proton- and Photon-Treated Lung Cancer Patients"**

2nd Place:

***David Adam* — Johns Hopkins University for the abstract entitled: "Development and Evaluation of Parameterizable Salivary Gland Model for Small-Scale Monte Carlo Radiopharmaceutical Therapy Dosimetry"**

1st Place:

***Joseph Cozzi* — University of Chicago for the abstract entitled: "Evaluation of Automatic Segmentations through Performance of Radiomic Features in the Classification of Thyroid Nodules on Ultrasound"**

ARTHUR BOYER AWARD FOR INNOVATION IN MEDICAL PHYSICS EDUCATION

The Arthur Boyer Award for Innovation in Medical Physics Education is supported by a generous lead donation by Arthur and Suzanne Boyer which is supplemented by donations to The Boyer Innovation in Medical Physics Education Fund. This award is given for an innovative program, presented at the AAPM Annual Meeting, in the medical physics education of physicists, physicians, ancillary personnel and the public.

> ***Kelly Kisling — UC San Diego*** **| "Harmonizing Medical Physics Education in Nigeria through an Accredited Course: Experiences from a Pilot Program"**

JOURNAL OF APPLIED CLINICAL MEDICAL PHYSICS PAPER AWARDS

Edwin C. McCullough Award of Excellence for an Outstanding Medical Imaging Physics Article:

"Unsupervised deep learning registration model for multimodal brain images". *J Appl Clin Med Phys.* 2023; 24:e14177
https://doi.org/10.1002/acm2.14177
Samaneh Abbasi, Alireza Mehdizadeh, Hamid Reza Boveiri, Mohammad Amin Mosleh Shirazi, Reza Javidan, Raouf Khayami and Meysam Tavakoli

George Starkschall Award of Excellence for an Outstanding Radiation Oncology Physics Article

"IMRT QA result prediction via MLC transmission decomposition"
J Appl Clin Med Phys. 2023; 24:e13990.
https://doi.org/10.1002/acm2.13990
John T. Stasko, William S. Ferris, David P. Adam, Wesley S. Culberson and Sean P. Frigo

Peter R. Almond Award of Excellence for an Outstanding Radiation Measurements Article

"Dual beam-current transformer design for monitoring and reporting of electron ultra-high dose rate (FLASH) beam parameters"
J Appl Clin Med Phys. 2023; 24:e13891.
https://doi.org/10.1002/acm2.13891
Kevin Liu, Allison Palmiero, Nitish Chopra, Brett Velasquez, Ziyi Li, Sam Beddar and Emil Schüler

Michael D. Mills Editor in Chief Award of Excellence for an Outstanding General Medical Physics Article

"Logistical, technical, and radiation safety aspects of establishing a radiopharmaceutical therapy program: A case in Lutetium-177 prostate-specific membrane antigen (PSMA) therapy."
J Appl Clin Med Phys. 2023; 24:e13899.
https://doi.org/10.1002/acm2.13899
Jacqueline Esthappan Zoberi, Jose Garcia-Ramirez, David Luechtefeld, Nichole M. Maughan, Maxwell Amurao, Reiko Oyama, Brian C. Baumann, Hiram A. Gay and Jeff M. Michalski

MEDICAL PHYSICS JOURNAL PAPER AWARDS

Farrington Daniels Award (awarded for an outstanding paper on radiation therapy dosimetry, planning or delivery)

"Combining physics-based models with deep learning image synthesis and uncertainty in intraoperative cone-beam CT of the brain"
Med Phys. 2023; 50: 2607–2624.
https://doi.org/10.1002/mp.16351
Xiaoxuan Zhang, Alejandro Sisniega, Wojciech B. Zbijewski, Junghoon Lee, Craig K. Jones, Pengwei Wu, Runze Han, Ali Uneri, Prasad Vagdargi, Patrick A. Helm, Mark Luciano, William S. Anderson and Jeffrey H. Siewerdsen

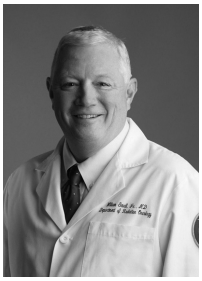
Moses and Sylvia Greenfield Award (awarded for an outstanding paper on imaging)

"A quality-checked and physics-constrained deep learning method to estimate material basis images from single-kV contrast-enhanced chest CT scans"
Med Phys. 2023; 50: 3368–3388.
https://doi.org/10.1002/mp.16352
Yinsheng Li, Xin Tie, Ke Li, Ran Zhang, Zhihua Qi, Adam Budde, Thomas M. Grist and Guang-Hong Chen

HONORARY MEMBERSHIP

Honorary Membership into AAPM is bestowed upon individuals to recognize distinguished service that they have provided to other societies that support medical physics. Thus the award not only honors the individual but also strengthens the links between AAPM and the other society. This year, AAPM will grant Honorary Membership to:

William Small Jr., MD



Dr. William Small joined the Loyola University Chicago Stritch School of Medicine in July 2013 as Professor and Chair of the Department of Radiation Oncology and was appointed Director of the Cardinal Bernardin Cancer Center in 2018. Prior to joining Stritch, Dr. Small held multiple leadership positions at the Robert H. Lurie Comprehensive Cancer Center of Northwestern University, including Vice Chair of the Department of Radiation Oncology. He completed medical school and residency training at Northwestern and has been an active researcher, teacher, and clinician for 30 years. Dr. Small is internationally known for research and treatment of gynecological, gastrointestinal, and breast cancers. He is a Fellow of the American College of Radiation Oncology, the American College of Radiology, and the American Society for Radiation Oncology and is the author of over 320 publications, 38 book chapters, and seven books. Dr. Small serves as the Chair of the ACR Radiation Oncology Commission and the President of the Illinois Radiological Society, as well as the Executive Committee of the American Joint Committee on Cancer. He holds leadership positions in national and international professional organizations and has made substantial contributions to the field of medical physics through research and service in areas including brachytherapy, IORT, and his work with the International Commission on Radiological Protection. He advocates for the role of medical physicists as vital contributors to patient care and research and has mentored numerous medical physics residents and faculty, demonstrating a commitment to advancing the standards of medical physics practice.

2024 FELLOWS

The category of Fellow honors members who have distinguished themselves by their contributions in research, education, and leadership in the medical physics community.

Todd F. Atwood, PhD

Dr. Todd F. Atwood is the Senior Associate Division Director of Transformational Clinical Physics and an Associate Professor at the University of California, San Diego. Dr. Atwood received his MS and PhD in Medical Physics from Wake Forest University before attending Stanford University for his Medical Physics Residency. Dr. Atwood has led multiple clinical trials and research studies investigating the benefits of integrating a clinical medical physicist directly into the patient's care team. His work aims to improve the patient experience while facilitating new clinical collaborations with radiation oncologists to advance patient care. This research has resulted in multiple publications and awards, including AAPM's Best in Physics Award in 2022. Dr. Atwood is currently leading Task Group No. 422: Practice and Training Models for Medical Physicist-Patient Communication to help establish consensus recommendations for communication training and the integration of patient-facing roles for medical physicists.

Rex G. Ayers, MEng

Mr. Rex Ayers is the Chief Physicist for Kadlec Tri-Cities Cancer Center in Kennewick, WA, under contract through Northwest Medical Physics Center (NMPC). Rex received a Master's in Nuclear Engineering (medical physics emphasis) from the University of Missouri Columbia. He began his career in the nuclear Navy. Rex is a Certified Health Physicist with experience at the University of Missouri Research Reactor (MURR) and Mallinckrodt, Inc. He led a radiopharmaceutical production team at Mallinckrodt for eight years before moving to Washington State. He began his medical physics journey with NMPC in 2005. Rex has served AAPM as Vice Chair and Chair of the Government and Regulatory Affairs

Committee and NWAAPM Region President. He enjoys teaching and has prepared over 300 students for oral boards through virtual mock exams. Rex is an avid racecar driver and instructor who has trophied in regional and national competitions.

Christopher T. Baird, MS

Mr. Christopher Baird earned his BA in Physics from North Central College in Naperville, IL. He studied Medical Physics at the University of Texas MD Anderson Cancer Center - Graduate School of Biomedical Sciences in Houston. He is currently the Director of Global Partnerships & Alliances for Varian, a Siemens Healthineers Company, where he is active in establishing and supporting academic-industry partnerships. Prior to joining Varian, Mr. Baird worked in clinical practice as part of Landauer Medical Physics. During this time, he led the clinical operations and development activities for the group and established a medical physics residency education program, one of the first private programs to obtain CAMPEP accreditation. He has served AAPM as a member of the Board of Directors, as President of SWAAPM, and in various other roles. Mr. Baird lives in Katy, TX, with his wife, Sherry, and their two children, Jillian and Thomas.

Parminder S. Basran, PhD

Dr. Parminder S. Basran is an Associate Research Professor at Cornell University's College of Veterinary Medicine and a Fellow of the Canadian College of Physicists in Medicine. He obtained his PhD from the University of Calgary, and his expertise spans radiation dosimetry, medical image processing, AI, and education. Dr. Basran is intensely focused on translating medical physics knowledge and practice well beyond human medicine to other disciplines, such as livestock and veterinary medicine, and other dimensions under a "One Health" paradigm. He is an ardent advocate for the global dissemination of medical physics knowledge, with projects focused on democratizing access to education. His AAPM work includes chairing AAPM's Summer Undergraduate Fellowship Program and the Working Group for the

Veterinary Radiation Therapy Oncology Group, serving on the Ad Hoc Advisory Committee on Artificial Intelligence Boot Camps, and leadership in organizations such as the Canadian Organization of Medical Physics, British Columbia Association of Medical Physicists, and Medical Physicists for World Benefit.

Tyler A. Blackwell, MS

Mr. Tyler Blackwell is the Clinical Collaborations Manager at Radformation. After studying undergraduate physics at the University of Montana, he earned an MS in Medical Physics at Purdue University. He spent 10 years working as a therapy physicist in Olympia, WA with Northwest Medical Physics Center. While there, he mentored interns and residents, piloted an SGRT program, and led their physics team in pursuit of APEx accreditation. After joining Radformation in 2019, Mr. Blackwell contributed to the larger community with numerous interviews and videos with fellow physicists via *The Focal Spot* blog. His contributions at Radformation were pivotal in earning two Stevie American Business Awards in thought leadership in 2024. Active within AAPM both at the chapter level and nationally, He has served on many committees including the Board of Directors and has been an examiner for the ABR for several years. He's a proud father to Watson, Atlas, and Vega.

Olivier Blasi, MS

Mr. Olivier Blasi is the Director of Commissioning with Colorado Associates in Medical Physics and earned his MS from Louisiana State University. His professional journey includes significant milestones in clinical practice, peer review, and leadership mentoring. He has commissioned equipment and software across numerous clinics in the Rocky Mountain region and initiated an external physics peer review program where he reviews outside sites. Within AAPM, Mr. Blasi chairs Task Group No. 397 - Pathways to Leadership in Medical Physics - Cohort B, and proudly served on AAPM's Board of Directors. He is also a member of Task Group No. 332 - Verification of Vendor Provided Data, Tools and Test Procedures and a member of the Ad Hoc Advisory Committee on Administrative Proficiency.

Within ASTRO, he is a member of the Practice Accreditation Subcommittee, working on improving accreditation standards. He has conducted over 15 APEx site visits and evaluates hundreds of facilities, driving improvements in practices nationwide. He is dedicated to mentoring future leaders, enhancing peer review, and improving clinical care practices.

Kirsten Lee Boedeker, PhD

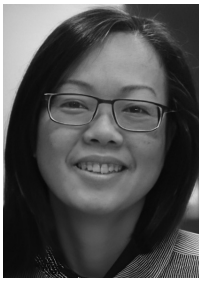
Dr. Kirsten L. Boedeker is Senior Manager for Medical Physics at Canon Medical Systems Corporation, headquartered in Otawara, Japan, where she has worked since 2005. After earning an undergraduate degree and Master's from Rensselaer Polytechnic Institute in Troy, NY, she completed her graduate studies in Biomedical Physics, earning a PhD from the University of California, Los Angeles. Her scientific focus is on image quality metrology and performance evaluation. She was ABR board-certified in Diagnostic Imaging in 2017. Dr. Boedeker is an industry liaison for many AAPM task and work groups, including the Computed Tomography Subcommittee and Imaging Physics Committee. In her spare time, she enjoys writing novels and making scientific concepts accessible through science fiction. Dr. Boedeker is passionate about being at the forefront of quantifying the performance of diagnostic medical equipment.

Richard Castillo, PhD

Dr. Castillo is an Associate Professor in Radiation Oncology at Emory University's Winship Cancer Institute. He received his MS and PhD in Medical Physics from the University of Texas Graduate School of Biomedical Sciences and became ABR board-certified in 2016. He is the founding Director of the accredited Emory Certificate Program in Medical Physics and is active in national service initiatives, including as standing member of the NIH Imaging and Technology Development Study Section, and member of the NIH Early Investigator Advancement Program. He mentors Early Stage- and New-Investigators and chairs the AAPM Diversity and Inclusion Subcommittee, Radiation Dosimetry and Treatment Planning

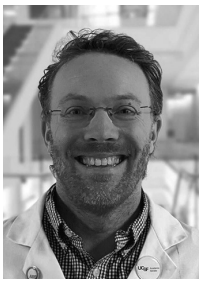
Subcommittee, and the AAPM Hispanic and Latin-X Medical Physics Subcommittee. Since 2017, Dr. Castillo has served on the Editorial Board for the *Red Journal* and was a Board Member At-Large for the Society for Directors of Academic Medical Physics Programs (SDAMPP).

Cynthia Fu-Yu Chuang, PhD



Dr. Cynthia Chuang is a Clinical Professor in the Department of Radiation Oncology at Stanford University. She began her medical physics career studying Boron Neutron Capture Therapy at MIT, earning her PhD in Nuclear Engineering, and completed her medical physics residency at UCSF. Dr. Chuang has extensive experience in SRS and SBRT treatments. Her research focuses on developing novel Quality Assurance methods, implementing new technologies, and improving treatment planning and delivery. Her collaborative research efforts have resulted in 61 peer-reviewed journal articles. She chairs the Quality Assurance and Outcome Improvement Subcommittee and the Practice Environment Subcommittee and is an active member of the Subcommittee on Practice Guidelines and the Women's Professional Subcommittee. In addition, she is involved in the development of Equity, Diversity and Inclusion content in physics residency curriculum. Passionate about enhancing radiotherapy efficiency, safety, and effectiveness, Dr. Chuang is dedicated to mentoring the next generation of medical physicists.

J. Adam M. Cunha, PhD



Professor Adam Cunha is the Director of the UC Berkeley/UC San Francisco Graduate Program in Medical Physics and holds faculty appointments in Nuclear Engineering and Radiation Oncology. He completed his PhD in subatomic particle physics at UCSB in 2006. Following a postdoctoral year at Brookhaven National Lab, he transitioned to medical physics, joining UCSF in 2009. Dr. Cunha has been President of AAPM's Northern California Chapter and chaired several AAPM committees, including the Working Group on Medical Physics Graduate Education and the Working Group on Robotic Brachytherapy. He

also served as Vice-Chair of Task Groups on catheter tracking and robotic brachytherapy guidelines. He spearheaded the establishment of the joint UC Berkeley-UCSF graduate program, which achieved CAMPEP accreditation in 2023, admitting its first students in fall 2024.

Sébastien A. Gros, PhD

Dr. Sébastien Gros is an Assistant Professor at Stritch School of Medicine, Loyola University Chicago, where he leads the SRS and IORT medical physics services and chairs the Radiation Oncology Department EDI Committee. Dr. Gros earned his PhD in Nuclear Physics from the University of Liverpool in 2006, followed by post-doctoral research at Argonne National Laboratory and Berkeley National Laboratory, before completing his residency at UCSF in 2012. Passionate about mentoring future medical physicists and improving global access to advanced radiation therapy, he has contributed to advancing biomechanics-guided adaptive radiotherapy, enhancing patient safety in IORT and SRS, and developing imaging dose management in radiotherapy. Dr. Gros is actively involved with the American College of Radiology, the International Commission on Radiological Protection, and the AAPM, where he currently chairs the Government and Regulatory Affairs Committee. Dr. Gros's contributions significantly impact the field of medical physics through education, mentorship, and clinical advancements.

Linda X. Hong, PhD

Dr. Linda Hong is an Attending Physicist in the Department of Medical Physics at Memorial Sloan Kettering Cancer Center (MSK). She earned her PhD in Physics from the University of California, San Diego in 1992. As a postdoctoral fellow at Massachusetts General Hospital from 1992-1994, she developed a pencil beam dose algorithm for proton therapy, acclaimed for its contributions to the field. From 1996-2005 at MSK, she pioneered Intensity-Modulated Radiation Therapy techniques for breast cancer, sarcoma, and other disease sites requiring large fields. She was an Associate Professor at Albert Einstein College of Medicine from 2005-2014. Returning to MSK

in 2014, she serves as a physics lead faculty for breast cancer radiotherapy and a clinical physics lead in treatment planning automation. She served as a medical physics oral examiner for the American Board of Radiology, and as President of the Radiological and Medical Physics Society of New York in 2021.

Yanle Hu, PhD

Dr. Yanle Hu is an Associate Professor of Radiation Oncology at Mayo Clinic in Arizona. He is board-certified in both Diagnostic and Therapeutic Medical Physics. Dr. Hu received his PhD in Physics from Stanford University. Prior to his current appointment at Mayo Clinic, Dr. Hu held a faculty position at Washington University in St. Louis. Dr. Hu has contributed to several areas, including MR-guided radiation therapy, 4D-MRI motion management, functional MRI, and imaging for proton therapy. He is a Senior Associate Editor for the *International Journal of Radiation Oncology, Biology, Physics* and an Associate Editor for the *Journal of Applied Clinical Medical Physics*. Dr. Hu has received multiple grants from institutions and an R21 from NIH. He is an active member of AAPM and has participated in numerous committees, working groups, and task groups.

Sunyoung Jang, PhD

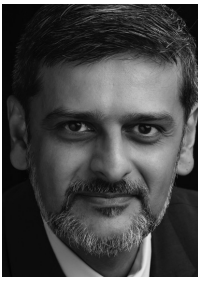
Dr. Sunyoung Jang is an Associate Professor at Penn State College of Medicine in the Department of Radiation Oncology. He obtained his PhD in Biomedical Engineering from Duke University and completed his postdoctoral training in the Departments of Radiology and Radiation Oncology at the University of Pennsylvania. Previously, Dr. Jang worked as a faculty physicist at the University of Pennsylvania, Northwestern University, and Brown University. Dr. Jang is an Associate Editor for the *Medical Physics Journal* and *Cureus Journal of Medical Science*. He has also served as a Review Editor (49 reviewed manuscripts published) for *Frontiers in Artificial Intelligence, Frontiers in Big Data*, and *Frontiers in Oncology*. He has volunteered on multiple AAPM workgroups, task groups, and subcommittees. Dr. Jang would like to express his appreciation and

gratitude to AAPM, his mentors, colleagues, and family members—Helen and their children, Dr. Peter and Jennifer.

Hyejoo Kang, PhD

Dr. Kang is an Assistant Professor and serves as the Associate Director of Medical Physics in the Department of Radiation Oncology at Loyola University. She received her PhD from Rutgers University in high-energy experimental physics and was a postdoctoral researcher at Stanford University. Subsequently, she completed her research fellowship in medical physics at Memorial Sloan-Kettering Cancer Center. Before joining the medical physics group at Loyola Medicine, she worked as a medical physicist at Northwestern Medicine and the University of Chicago. She has authored more than 20 peer-reviewed publications in medical physics and over 30 in other fields of physics. She currently serves as the President of the AAPM Midwest Chapter, sits on various national AAPM committees, and is a member of the NRG physics subcommittee. Dr. Kang is a strong advocate for mentoring and has provided guidance to numerous students, including AAPM summer undergraduate students and DREAM fellows.

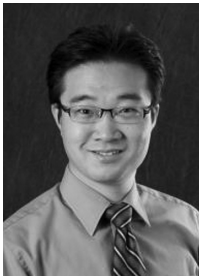
Anuj J. Kapadia, PhD



Dr. Anuj J. Kapadia, Distinguished Research Scientist and Section Head for Advanced Computing in Health Sciences at Oak Ridge National Laboratory in Oak Ridge, TN, holds a PhD in Biomedical Engineering from Duke University. Dr. Kapadia's contributions span AI, machine learning, radiation dosimetry, medical imaging, modeling and simulation, and data analytics in healthcare. He has authored over 100 publications and mentored 33 students and postdoctoral researchers. Dr. Kapadia serves on the Medical Physics Leadership Academy (MPLA), Task Group No. 321 - Dosimetry in Radiographic Tomosynthesis Imaging, the MPLA Website Subcommittee, the MPLA Community Subcommittee, and AAPM's Communication Coordination Committee. He previously chaired the MPLA Marketing and Publicity Subcommittee and TG295 - Medical Physics

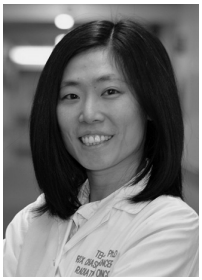
Leadership Academy Educational Requirements & Resources. He is also President-Elect for the Southeast Chapter of AAPM. Dr. Kapadia's commitment to advancing medical physics and nurturing future scientists continues to shape the field and inspire the next generation.

Yusung Kim, PhD



Dr. Yusung Kim, Physics Chief of GU-GYN Service at MD Anderson Cancer Center, is a Professor with Master's and PhD degrees in Medical Physics from the University of Wisconsin, Madison. He has authored over 65 peer-reviewed publications and holds six USA patents, contributing significantly to MRI-guided brachytherapy, radiobiological modeling, and intensity-modulated brachytherapy. Dr. Kim has served as Vice-Chair of Task Group No. 236 and participated in Task Groups No. 337 and No. 307, focusing on 3D treatment planning, brachytherapy sources, and MRI utilization. He enjoys a fulfilling family life with his cherished wife, Sun-Jae, and their children, David, Crystal, and Christian. His dedication to advancing clinical physics underscores his commitment to enhancing patient care through improved efficiency, safety, and efficacy.

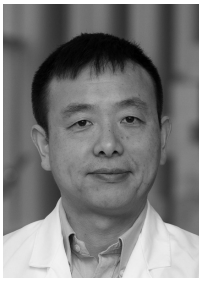
Teh Lin, PhD



Dr. Teh Lin is an Associate Professor in Therapeutic Medical Physics at Fox Chase Cancer Center (FCCC). She trained in Electrical Engineering and Computer Science at the University of Michigan-Ann Arbor. She has worked extensively in Image-Guided Radiation Therapy (IGRT) and focused on improving the current IGRT modality to achieve more accurate and precise radiation dose delivery to the patient in all aspects, including accurate IMRT QA, patient organ motion management, prostate brachytherapy dose delivery, and Monte Carlo simulations on LINAC dose delivery. Over the last 16 years at FCCC, she has been able to develop clinical protocols in these areas at her department and nationally with expertise in task report proposing, writing, and presenting through AAPM national committees. Clinically, she is always the "go-to" physicist to solve problems for physicians,

dosimetrists, and therapists, and is never too tired to show the students and residents what she can offer.

Weiguo Lu, PhD



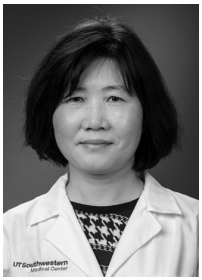
Dr. Weiguo Lu is a tenured Professor of Radiation Oncology at UT-Southwestern Medical Center. He earned his BS and MS in Nuclear Physics from Peking University in 1995 and 1997 and completed his MS in Computer Sciences and PhD in Medical Physics at the University of Wisconsin in 2000 and 2001, respectively, under Prof. Thomas "Rock" Mackie's mentorship. Before joining academia in 2014, he served as Director of Innovation and Physics at TomoTherapy Inc. and Director of Research at 21st Century Oncology. With hundreds of research articles and multiple NIH-R01 awards, Dr. Lu is acclaimed for his pioneering work in computational radiotherapy, particularly in dose calculation, deformable registration, plan optimization, motion management, and artificial intelligence. With 16 granted US patents and SBIR awards, Dr. Lu contributes significantly to various commercial radiotherapy software and is recognized as an entrepreneur. Dr. Lu is a champion in industrial and in-house clinical software development.

Kyle J. Myers, PhD

Dr. Kyle J. Myers earned a doctorate in Optical Sciences from the University of Arizona. For 30+ years, she worked for FDA's Center for Devices and Radiological Health, where she served as Director of the Division of Imaging, Diagnostics and Software Reliability. She is best known for the development of regulatory science methods for assessing the performance of medical imaging devices. Her work established next-generation study designs and evaluation methods for novel medical imaging and diagnostics products, including digital mammography, 3D breast imaging, low-dose CT for lung cancer screening, and whole-slide digital pathology. Dr. Myers belongs to the National Academy of Engineering and is a Fellow of AIMBE, Optica, and SPIE. Honors include the SPIE Community Champion Award, the SPIE H.H. Barrett Medical Imaging Award,

and the Joseph W. Goodman Book Writing Award, jointly awarded by Optica and SPIE. Dr. Myers now works as an independent researcher and regulatory consultant.

Mi-Ae Park, PhD



Dr. Mi-Ae Park is a distinguished clinical medical physicist certified by the American Board of Radiology in Diagnostic and Nuclear Medical Physics. She holds a Master's in Physics from Ewha Womans University, South Korea, and a PhD in Physics from Purdue University. Dr. Park is the Chief of Medical Physics, an Associate Professor at the University of Texas Southwestern Medical Center and directs their Medical Imaging Physics residency program. With over 80 publications, her innovative work has led to new advancements in patient care, particularly in cardiac PET and SPECT imaging. As a Fellow of the American Society of Nuclear Cardiology, Dr. Park is recognized for her significant contributions to cardiac imaging. She also serves on the board of Associate Editors for the *Journal of Applied Clinical Medical Physics* and is the former Chair of the AAPM Online Learning Services.

William Parker, MS

Mr. William Parker is an Assistant Professor in the Medical Physics Unit of the Department of Oncology and the Chief of the Department of Medical Physics of the McGill University Health Centre in Montreal, Quebec. He received a MSc in Medical Radiation Physics from McGill University in 1995. In 1996, he was hired as a clinical medical physicist specializing in radiation oncology physics at the Montreal General Hospital. In 2009, Mr. Parker became the Chief of the Department of Medical Physics at the McGill University Health Centre (MUHC), a position he still holds. He has been involved with AAPM at many levels; he was Chair of the Continuing Professional Development Committee and the Summer School Sub-Committee and was a member of the Education Council for many years. He was also the President of the Association Québécoise des Physiciens Médicaux Cliniques (AQPMC) for five years.

Katia Parodi, PhD

Dr. Katia Parodi has been a Professor and Chair of Medical Physics at the Physics Faculty of the Ludwig-Maximilians-Universität in Munich (Germany) since 2012, where she initiated a dedicated specialization in Medical Physics within the MSc in Physics. She received her PhD from the University of Dresden, completed her postdoctoral research at Massachusetts General Hospital in Boston, and worked as a group leader at the Heidelberg Ion Beam Therapy Center, where she completed her Habilitation in 2009. Her main interests are in advancing precision image-guided ion therapy for pre-clinical and clinical applications. She has published over 300 peer-reviewed papers, received several awards, including AAPM's John S. Laughlin Early-Career Scientist Award, and third-party funding, including a European Research Council project. From 2017 to 2018, she served as President of the German Society for Medical Physics. Since 2021, she has been the Editor-in-Chief of the *Physics in Medicine and Biology* Journal.

Jennifer M. Pursley, PhD

Dr. Jennifer Pursley received her PhD in Experimental Particle Physics from Johns Hopkins University and spent three years as a postdoc in high-energy physics before entering the Harvard Medical Physics Residency Program. After residency, she joined the Department of Radiation Oncology at Massachusetts General Hospital as a Medical Physicist and is an Assistant Professor at Harvard Medical School. Her primary focus includes treatment planning and the safe implementation of CT-guided online adaptive therapy. Dr. Pursley has been a treatment planning mentor in the Harvard Medical Physics Residency Program since 2017, and she also teaches and mentors students in the Suffolk University Medical Dosimetry program. She is active in AAPM, has edited AAPM's Newsletter since 2022, and has been Chair of the Women's Professional Subcommittee since 2023. Dr. Pursley is passionate about mentoring and education, along with providing exceptional patient care.

Berkman Sahiner, PhD

Dr. Berkman Sahiner currently serves as a Program Manager at ARPA-H as a detailee from the FDA. At ARPA-H, Dr. Sahiner develops programs that impact patient well-being through the use of artificial intelligence in medicine. At the FDA, Dr. Sahiner has been at the Division of Imaging, Diagnostics, and Software Reliability within the Office of Science and Engineering Laboratories for 15 years, focusing on developing regulatory science methods and tools for medical devices involving artificial intelligence and imaging. Prior to joining the FDA, Dr. Sahiner was an Associate Professor at the Radiology Department of the University of Michigan. At AAPM, Dr. Sahiner served as the Chair of the Computer Aided Image Analysis Subcommittee, the Vice Chair of the Machine Intelligence Subcommittee, and a member of the Data Sciences Committee. Dr. Sahiner is a lifelong advocate of advancing medicine through the science and practice of medical physics.

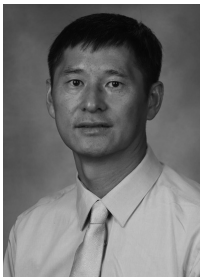
Vikren Sarkar, PhD

Dr. Vikren Sarkar is Professor of Radiation Oncology and co-leader of the proton therapy program at the University of Utah. With a PhD in radiological sciences from the University of Texas Health Science Center at San Antonio, he completed a post-doctoral fellowship at the University of Utah before joining the faculty. Dr. Sarkar has spearheaded initiatives in stereotactic radiosurgery and total body irradiation programs and played a crucial role in establishing the Intermountain West's inaugural proton therapy center in 2021. He also co-leads research within his division, with over 60 peer-reviewed articles to his name. An active member of AAPM, Dr. Sarkar contributes to committees such as the Quality Assurance and Outcome Improvement Subcommittee and Therapy Physics Committee and serves as Vice Chair of the Annual Meeting Analysis and Evaluation Working Group. He also serves as the President of the Rocky Mountain AAPM chapter, shaping regional discourse in the field.

Daniel J. Scanderbeg, PhD

Dr. Daniel Scanderberg is currently a therapy medical physicist and Professor at the University of California, San Diego, where he is responsible for the brachytherapy program and regulatory affairs. He received his undergraduate degree in Physics, followed by a Master's in Materials Physics and a PhD in Materials Science and Engineering, all at UC San Diego. Dr. Scanderberg is passionate about brachytherapy and has served on numerous committees dedicated to the field. He is committed to outreach and education, having served as a member and Chair of AAPM's Public Education Committee, and has volunteered with Rayos Contra Cancer, Radiating Hope, and BioVentures for Global Health to assist the international community. Locally, he volunteers and helps with education and training for first responders. He enjoys outdoor adventures with his family in his free time. Dan is thrilled and grateful for this nomination and award.

Jiajian Shen, PhD



Dr. Jason Shen is an Associate Professor of Radiation Oncology at Mayo Clinic Arizona. He obtained his PhD in Astrophysics from Pennsylvania State University, followed by a Master's in Medical Physics at Wayne State University and residency training at the University of Pennsylvania. Jason has made considerable contributions to the field of proton radiation therapy, authored more than 60 peer-reviewed manuscripts, and organized three proton education workshops. He has a strong interest in educating young medical physicists and radiation oncologists, having mentored more than 20 graduate students, medical residents, postdocs, and medical physics assistants. Dr. Shen has served as Treasurer and Secretary of the Arizona chapter and as the Chapter Representative on AAPM's Board of Directors. Additionally, he has served on 11 other AAPM committees. He is also active in other professional societies, including ABR, ASTRO, and NRG.

John Alan Shepherd, PhD

Dr. John Alan Shepherd is the Chief Scientific Officer at the University of Hawaii Cancer Center and the B.H. and Alice C. Beams Endowed Professor in Cancer Research at the John A. Burns School of Medicine. A Fulbright Scholar and AIMBE Fellow, he earned his BS and PhD in Engineering Physics from Texas Tech University and the University of Virginia, followed by a Postdoctoral Fellowship in Biophysics at Princeton University. Dr. Shepherd has developed critical body composition and bone density algorithms, significantly advancing women's health diagnostics. Currently, he leads the Hawaii Pacific Islands Mammography Registry, enhancing breast cancer risk models for underrepresented populations. His work includes over 350 peer-reviewed publications, cited more than 24,000 times. Dr. Shepherd also actively engages in mentoring and hosts the biennial International Breast Density and Risk Assessment Workshop. An avid surfer, cyclist, and island hiker, he embodies a commitment to medical innovation and community health.

Joseph W. Stayman, PhD

Dr. Web Stayman is Associate Professor of Biomedical Engineering at Johns Hopkins in Baltimore, MD. Dr. Stayman received a BS in Computer and Systems Engineering from Rensselaer Polytechnic Institute and a Master's and PhD in Electrical Engineering from the University of Michigan in Ann Arbor. With nearly 100 peer-reviewed journal publications, nearly 200 conference proceedings, and over 55 presentations at AAPM Annual Meetings as author/co-author, Dr. Stayman has contributed to several areas, including image reconstruction and analysis methods for tomography, novel imaging system development including fluence-field modulated CT, point-of-care CT, and spectral CT, as well as research into physics-informed deep learning approaches. Dr. Stayman has been senior author of presentations receiving two Jack Fowler Early-Career Investigator Awards and one John R. Cameron Early-Career Investigator Award. Dr. Stayman continues to promote investigation, translation, and education for novel imaging techniques

combining rigorous physics-based models with advanced data collection and processing.

Matthew T. Studenski, PhD

Dr. Matthew Studenski is an Associate Professor at the University of Miami where he also serves as Brachytherapy Director and Director of Clinical Physics Operations. He received Bachelor's and Master's degrees in Nuclear Engineering from the University of Michigan and a MSc and PhD in Medical Physics from the University of Florida. He subsequently completed his residency at Thomas Jefferson University. Dr. Studenski's research interests include brachytherapy, image guided radiotherapy, education, and QA. He is currently a member of AAPM Task Group No. 59.B - high dose-rate brachytherapy treatment delivery, served as President of the Florida Chapter of AAPM, and was the Chair of the AAPM Radiation Oncology Medical Physics Education Subcommittee. He was the Medical Physics Residency Program Director at the University of Miami and continues to promote medical physics education as a CAMPEP Residency Program Reviewer, ABR Examiner, and Associate Editor for *Advances in Radiation Oncology*.

Paige A. Taylor, PhD

Dr. Paige Taylor is an Assistant Professor at UT MD Anderson Cancer Center with IROC in Houston, TX. She received her PhD in Medical Physics from the MD Anderson/UT Health Graduate School of Biomedical Sciences. Her work focuses on radiation therapy dosimetry peer review. Dr. Taylor's expertise is particle therapy quality assurance, and she has performed dosimetric site visits at over 40 proton and carbon centers around the world. She is a faculty member in the MD Anderson/UT Health Medical Physics graduate program and has served on seven graduate student committees. Dr. Taylor was recently elected Chair of the Global Harmonization Group for clinical trial quality assurance and is a member of many AAPM and NCI clinical trial committees. She and her husband, Brad, met at the MD Anderson Proton Center and now have two kids. Dr. Taylor is enthusiastic about mentoring the next generation of medical physicists.

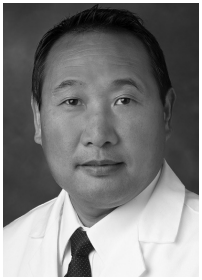
Christopher J. Tien, PhD

Dr. Christopher Tien is Associate Professor and Lead Physicist for Brachytherapy in the Department of Therapeutic Radiology at the Yale School of Medicine. He received his PhD in Medical Physics at the University of Florida under Dr. David Hintenlang and completed his residency training at Brown University under former AAPM President, Bruce Curran. After residency, Dr. Tien worked in private practice in suburban Chicago until he moved back to New England to work at Yale. There, he has risen in academic rank from Clinical Assistant Professor in 2016 to Assistant Professor in 2019 to Associate Professor in 2023. Dr. Tien specializes in brachytherapy and serves as the Chair of Task Group 59.B - High dose-rate brachytherapy treatment delivery. He has been involved with 13 AAPM Task Groups and Working Groups. Additionally, he has served as President of the AAPM Connecticut Chapter and as the Connecticut Chapter Representative to AAPM's Board.

Jing Wang, PhD

Dr. Jing Wang is a tenured Professor and Director of Data Analytics and Informatics at the University of Texas Southwestern (UTSW) Medical Center. Dr. Wang received his PhD in Physics from State University of New York at Stony Brook in 2006 and completed postdoctoral training at Stanford before joining UTSW in 2010 as a tenure-track Assistant Professor. Dr. Wang's research focuses on medical image reconstruction, processing, machine learning and their applications in radiation therapy, treatment outcome prediction, and personalized cancer treatment strategies. Dr. Wang has published over 140 peer-reviewed papers and secured funding from the ACS, the Department of Defense, the Cancer Prevention and Research Institute of Texas, and NIH including multiple R01s. A mentor to 25 postdoctoral fellows/junior faculty, and 3 PhD students, Dr. Wang is a full-voting Member-at-Large of AAPM's Science Council and is Co-Director (2024) and Director (2025) for the Multi-Disciplinary Scientific Program for AAPM's Annual Meeting.

Zhiheng Wang, PhD



Dr. Zhiheng Wang is a Professor in the Department of Radiation Physics at the University of Texas MD Anderson Cancer Center and a clinical physicist focusing on stereotactic radiosurgery, SSRS, SBRT, and imaging application in radiation oncology. Before joining MD Anderson Cancer Center, Dr. Wang was a Professor in the Department of Radiation Oncology at Duke University, where he served as a faculty medical physicist for more than 20 years. He received his PhD in Radiological Sciences from the University of California at Irvine in 1998 and completed ABR and ABMP board certifications in 2001. Dr. Wang has been actively involved in AAPM, contributing both professionally and scientifically. He has made significant contributions to the field, and he enjoys developing treatment techniques that benefit cancer patients, teaching medical physics graduate students and residents, and, most importantly, delivering state-of-the-art treatments to patients.

Dee H. Wu, PhD

Dr. Dee Wu, a clinical medical physicist and professor, is the Chief of Technology Applications and Translational Research in Radiological Sciences at the University of Oklahoma Health Sciences Center. Dr. Wu's interests include AI, precision medicine, and translational research. As a member of the Academy of Teaching Scholars, he has spearheaded projects across various medical subspecialties. Dr. Wu has served as a Co-Investigator and Principal Investigator on NIH grants and has made significant contributions to AAPM committees, focusing on artificial intelligence and Medical Physics 3.0. He holds 12 patents, has authored 55 peer-reviewed articles, and written a book. Dr. Wu is deeply committed to education, supporting learners on a range of topics that promote critical thinking and interprofessional teamwork. He is a faculty mentor for the Medical Student Technology and Rural Tribal Medical Student Interest Groups and has mentored numerous medical physics students and residents, medical students, and physician fellows.

Nathan E. Yanasak, PhD

Dr. Nathan Yanasak is an Associate Professor of Medical Physics in the Department of Radiology at Augusta University. He received a PhD in Astrophysics from the University of Utah. While studying cosmic-ray propagation as a post-doc at Caltech/JPL, he met his future wife, Wendy, and switched his career to Medical Physics. Under Dr. Jerry Allison's mentorship, he pursued various MRI research and clinical duties at AU, managing small animal and human imaging cores and directing resident medical physics education. Education has been a passionate focus of his life whether participating in the RSNA/AAPM physics web module program, acting as workshop faculty, or instructing undergraduates. In addition to serving on numerous AAPM committees, he has been a member of ten graduate committees and supervised research for seventeen residents or undergraduates. He has published over seventy articles, three book chapters, and one textbook in the areas of neuroimaging, psychology, and astrophysics.

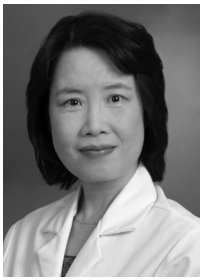
Hengyong Yu, PhD

Dr. Hengyong Yu is a Professor of Electrical and Computer Engineering at UMass Lowell. He earned his PhD in Information and Communication Engineering from Xi'an Jiaotong University and completed postdoctoral training in medical imaging at the University of Iowa. His research centers on developing algorithms for medical image reconstruction, processing, and analysis, along with clinical applications. Dr. Yu has published over 200 journal papers and 140 conference papers/abstracts, boasting an H-index of 49 and an i10-index of 153 on Google Scholar. He has received numerous awards, including the NSF CAREER Award in 2012 and the IEEE R1 Technological Innovation Award in 2022. Dr. Yu has secured over $25 million in grants as PI, Co-PI, or key investigator. A Fellow of the IEEE and the Asia-Pacific Artificial Intelligence Association, he is globally recognized for his seminal contributions to x-ray computed tomography and tomographic imaging.

Hualin Zhang, PhD

Dr. Hualin Zhang is an Associate Professor in the Department of Radiation Oncology at the University of Southern California. Dr. Zhang completed his medical physics residency at the University of Kentucky in 2005. He received his PhD from Lanzhou Institute of Physics of China. His research spans several innovative modalities, including spatially fractionated radiation therapy, MRI-guided low and high dose-rate brachytherapy, and intraoperative radiation therapies using mesh and balloon-based systems. He has authored over 50 peer-reviewed articles and delivered more than 100 scientific presentations globally. He published the first spatially fractionated radiation therapy textbook in 2023: "Spatially Fractionated, Microbeam, and Flash Radiation Therapy: A Physics and Multi-Disciplinary Approach." Dr. Zhang has held numerous leadership roles, including Co-Chair of AAPM's Task Group No. 222 - AAPM Recommendations for Intraoperative Mesh Brachytherapy and Chair of the Physics Working Group of the RSS GRID/ Lattice, Microbeam, and Flash Radiotherapy Working Groups.

Wei Zhao, PhD



Dr. Wei Zhao is a Professor and Vice Chair of Research in the Department of Radiology at Stony Brook University. She received her BEng in Biomedical Engineering from Tsinghua University and MSc and PhD in Medical Physics from the University of Toronto. Dr. Zhao joined Stony Brook Radiology as an Assistant Professor in 1999 and was promoted to Associate Professor and Professor in 2005 and 2012, respectively. She is the Program Leader for the Imaging, Biomarking Discovery and Engineering Sciences (IBES) research program of Stony Brook Cancer Center. Dr. Zhao has been working on the development and advanced clinical applications of large-area x-ray flat-panel detectors for 30+ years. She authored more than 150 research articles, five book chapters and holds 21 US patents. Dr. Zhao currently serves as Co-Chair for Task Group No. 245 - Tomosynthesis Quality Control. She is a champion of medical physics research, education and mentorship.

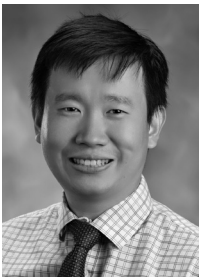
Yuxiang Zhou, PhD

Dr. Yuxiang Zhou is an Associate Professor in the Department of Radiology at Mayo Clinic - Arizona and an Adjunct Professor at Arizona State University. He began his career as a Senior Research Scientist at MD Anderson Cancer Center. Dr. Zhou's primary academic interests include the development, evaluation, and application of MR imaging techniques for the detection, diagnosis, monitoring, and management of diseases. He has made significant contributions to advanced imaging technique development for clinical practice in areas such as simultaneous PET/MR, interventional hybrid MR, and high field 7T MR imaging. Dr. Zhou has been actively involved in grants, including over 10 federally funded grants and six foundation or internal grants. He has mentored 20+ students, including high school, college, MS, PhD, and MD students. Dr. Zhou served as Chair of the International Society for Magnetic Resonance in Medicine, Inc. Task Group, and currently serves as the AAPM Arizona Chapter President.

JOHN S. LAUGHLIN EARLY-CAREER SCIENTIST AWARD

This award recognizes outstanding scientific achievement in medical physics for an early-career scientist member of AAPM. The award will usually be given to a member who has been engaged in a medical physics career for fewer than 10 years on December 31 of the year of nomination and who has been an AAPM member (Associate, Associate-Student, or Full) for at least five years.

Xuanfeng Ding, PhD



Dr. Xuanfeng Ding is the Lead Proton Physicist at Corewell Health, William Beaumont University Hospital, Proton Therapy Center, and Associate Professor at William Beaumont School of Medicine, Oakland University. He received a BS in Physics from Fudan University in 2006, an MS and PhD in Physics from Wake Forest University in 2012, and residency training from the University of Pennsylvania in 2014. After joining William Beaumont University Hospital in 2016, Dr. Ding introduced the spot-scanning proton arc therapy, which drives the revolutionary technological development across the particle beam therapy community today. He has served as the Principal Investigator of several institutional and industry research grants, published over 50 peer-reviewed articles, two book chapters, and over 100 conference abstracts, and holds two patents. Dr. Ding served as the President of AAPM's Great Lakes Chapter in Michigan in 2020. He was selected as the Co-Chair of the Physics Workshop of the European Society of Radiotherapy and Oncology (ESTRO) in 2022 on particle arc therapy and, in 2024, Co-Chaired a joint physics-bio workshop on hypofractionation. Additionally, he served as a committee member in numerous international societies and organizations such as the MecaTech consortium (Belgium), DynamicARC consortium (IBA), AAPM Task Group No. 349 - Commissioning of Monte Carlo Dose Calculation in Proton Therapy, AAPM Particle Therapy Working Group, and AAPM's research seed funding initiative.

MARVIN M.D. WILLIAMS PROFESSIONAL ACHIEVEMENT AWARD RECIPIENTS

1989: Gail D. Adams
1990: Peter R. Almond
1991: Ann E. Wright
1992: John S. Laughlin
1993: Robert O. Gorson
1994: Robert J. Shalek
1995: Nagalingam Suntharalingam
1996: James A. Purdy
1997: Colin G. Orton
1998: Faiz M. Khan
1999: Jimmy O. Fenn
2000: Moses A. Greenfield
2001: Stewart C. Bushong
2002: Bhudatt R. Paliwal
2003: James B. Smathers
2004: Kenneth R. Hogstrom
2005: Edwin C. McCullough
2006: Edward S. Sternick
2007: Michael D. Mills
2008: Edward Lee Nickoloff
2009: Melissa Carol Martin
2010: Walter Grant
2011: Benjamin R. Archer
2012: William F. Hanson
2013: Marilyn Stovall
2014: Herbert W. Mower
2015: Christopher H. Marshall
Jean M. St. Germain
2016: Keith J. Strauss
2017: Stephen Balter
Michael T. Gillin
2018: Muthana S.A.L. Al-Ghazi
Louis K. Wagner
2019: Bruce J. Gerbi
Larry E. Sweeney
2020: Priscilla Butler
Christopher Serago
2022: Steven Goetsch
Pei-Jan Paul Lin
2024: Robin L. Stern
Per H. Halvorsen

MARVIN M.D. WILLIAMS PROFESSIONAL ACHIEVEMENT AWARD

This award recognizes AAPM members for an eminent career in medical physics with an emphasis on clinical medical physics. The 2024 recipients are:

Robin L. Stern, PhD

Dr. Robin Stern is Professor Emerita in Radiation Oncology at the University of California, Davis. She received her BA in physics from Rice University and her Master's and PhD in experimental nuclear physics from the University of Michigan. After graduation, Dr. Stern obtained postdoctoral positions, first in MRI at Duke University and then in therapy physics at the University of Michigan. She then joined the faculty at the University of California, Davis, becoming Chief Clinical Physicist and remaining there until her retirement in 2020. Dr. Stern was instrumental in implementing numerous clinical programs at UCD, including 3D treatment planning, HDR brachytherapy, stereotactic radiosurgery and body radiation therapy, and LDR prostate implants. Throughout her career, she championed quality and safety efforts and was selected as faculty for an IAEA Training Course on Quality Assurance in Damascus, Syria. Her achievements in education include creating and leading an Introduction to Therapy Physics course for undergraduate and graduate students, obtaining initial CAMPEP accreditation for the Physics Residency Program during her tenure as Director, and receiving her department's Faculty Educator of the Year award. Within AAPM, Dr. Stern has served as President of the Northern California Chapter, Board Member at Large, Chair of TG 114 - Verification of Monitor Unit Calculations, Chair of the Quality Assurance and Outcome Improvement Subcommittee, Chair of the Annual Meeting Subcommittee during the pandemic years, and Chair of the Meeting Coordination Committee during the pandemic follow-up. In 2007, she was inducted as an AAPM Fellow.

Per H. Halvorsen, MS

Mr. Per Halvorsen is the Senior Director for Clinical Technology adoption in Varian's professional services division. Mr. Halvorsen received his MS in Radiological Medical Physics from the University of Kentucky in 1990, during which time he benefited greatly from Dr. Charlie Coffey's clinical practicum mentorship. His first position after graduate school was in Rhode Island, working for Bengt Bjarngard, a brilliant clinical physicist and an excellent mentor. In the mid-1990s, he brought 3DCRT and IMRT services to the community practice setting through a collaboration with Ed Chaney at UNC – Chapel Hill. Upon Herb Mower's retirement in 2012, he assumed the position of Director of Physics for the Lahey division of the Beth Israel Lahey Health System in suburban Boston. He began his current position in December 2022. Mr. Halvorsen has been an active volunteer in professional societies, chairing AAPM's Professional Council, and serving on AAPM's Board of Directors, and as President of two Chapters. During his tenure on the Professional Council, he initiated the Medical Physics Practice Guideline program. He has authored numerous peer-reviewed manuscripts, most recently as the Chair of the Medical Physics Practice Guideline for Peer Review, as well as the Guideline for SRS and SBRT. He served as Deputy Editor-in-Chief of the *JACMP* until 2023. Per and Yuan-Di, his wife of 36 years (also a clinical scientist), spend their free time in nature as much as possible and thoroughly enjoy seeing their daughter Sonja and son Stefan becoming kind, mature adults.

EDITH H. QUIMBY LIFETIME ACHIEVEMENT AWARD RECIPIENTS

1996: Arnold Feldman
1997: Robert O. Gorson
1998: John Hale
Jon H. Trueblood
Kenneth A. Wright
1999: Perry Sprawls
Joe. P Windham
2000: William F. Hanson
Mary L. Meurk
2002: Amos Norman
2003: Stewart C. Bushong
2003: Radhe Mohan
2004: Donald E. Herbert
2006: Azam Niroomand-Rad
2007: Lawrence N. Rothenberg
Marilyn Stovall
2008: James M. Galvin
Kenneth R. Kase
2009: James A. Deye
Lawrence E. Reinstein
Raymond L. Tanner
2010: Joel E. Gray
Martin S. Weinhous
2012: Charles A. Mistretta
Edward S. Sternick
Kenneth N. Vanek
2013: Caridad Borras
Norbert J. Pelc
George Starkschall
2014: Howard Ira Amols
Bruce H. Curran
Edward Lee Nickoloff
2015: Larry A. DeWerd
Kunio Doi
Melissa Carol Martin
2016: Wendell R. Lutz
Robert J. Pizzutiello
Michael V. Yester
2017: G. Donald Frey
John W. Wong
2018: Jerry D. Allison
Frank J. Bova
2019: James C. Chu
Ellen D. Yorke
2020: Frederic Fahey
X. George Xu
2022: Indra Das
Martin Yaffe
2023: M. Mahesh
Lei Xing
2024: Mary K. Martel
Dianna D. Coty

EDITH H. QUIMBY LIFETIME ACHIEVEMENT AWARD

This award recognizes AAPM members whose careers have been notable based on their outstanding achievements.

Mary K. Martel, PhD

Dr. Mary K Martel's career in medical physics has spanned 40 years of clinical service, research, and teaching at several academic centers. She received her PhD from Clark University in Nuclear Chemistry and entered the medical physics field through a postdoctoral fellowship at Memorial Sloan Kettering Cancer Center. She rose through the academic ranks as faculty at Columbia-Presbyterian, the University of Michigan, and the University of Chicago. Dr. Martel is a tenured Professor and Chair of the Department of Radiation Physics in the Division of Radiation Oncology at MD Anderson Cancer Center. She has served AAPM in many capacities, such as elected Board Member-at-large, Annual Meeting Scientific Program Director, Radiation Therapy Committee, Chair of the Awards and Honors Committee, and most importantly, as a co-founder of the Woman's Professional Subcommittee. Dr. Martel served as President of AAPM in 2005 and served for 3.5 years on the Executive Committee of the Board. She was elected to the ASTRO Board of Directors as Chair of the Science Council in 2011. Dr. Martel's clinical research has primarily focused on dose-response studies, starting in 1991 as a part of the medical physics pioneer team led by Drs. Dick Fraass, Dan McShan and Randy Ten Haken. She was invited to be a part of the landmark work of QUANTEC. She thanks her family for their unwavering support throughout the years. Dr. Martel is pleased to receive an award that honors Edith Quimby, a personal hero and role model for all women in Medical Physics.

Dianna D. Cody, PhD

Dr. Dianna Cody received a BSc in Mechanical Engineering from Michigan State University and a Master's and Doctorate in Bioengineering from the University of Michigan. She joined UT MD Anderson Cancer Center in 2000, the breadth and depth of the radiology equipment and faculty allowed her to focus on her favorite imaging modality, CT. Along with a small team of like-minded physicists, she dug into the growing complexity of the evolving scanners and was happiest when sharing their secrets with her peers. She contributed to many AAPM committees, Task Groups, and Working Groups during her career. She co-authored over 120 published papers and five book chapters. Her professional interests included multi-energy CT imaging, CT radiation dose issues, and CT protocol management. Dr. Cody enjoyed educating graduate medical physics students, supervising individual graduate students, and especially sharing her knowledge with practicing fellow clinical medical physicists. She retired from MD Anderson Cancer Center in February 2020. She has received many awards: AAPM Fellow, ACR Fellow, and Distinguished Alumnus of both of her Michigan State and University of Michigan programs. Dr. Cody now resides in the resort area of Galveston, Texas, and enjoys her growing circle of friends. She is kept very busy caring for her gentleman friend, Geoff and her dog Cooper. Her favorite past-times are caring for landscaping, spoiling Geoff and Cooper, and absorbing stunning sunsets. Dr. Cody has made a significant impact on the CT community by sharing her experience in applying complex scanner tools in real-life imaging applications.

WILLIAM D. COOLIDGE GOLD MEDAL RECIPIENTS

1972: William D. Coolidge
1973: Robert J. Shalek
1974: John S. Laughlin
1975: Marvin M. D. Williams
1976: Harold E. Johns
1977: Edith E. Quimby
1978: Lawrence H. Lanzi
1979: Herbert M. Parker
1980: John R. Cameron
1981: James G. Kereiakes
1982: Gail D. Adams
1983: Edward W. Webster
1984: Robley D. Evans
1985: Jack S. Krohmer
1986: Warren K. Sinclair
1987: Gordon L. Brownwell
1988: John R. Cunningham
1989: William R. Hendee
1990: Peter R. Almond
1991: Moses A. Greenfield
1992: Nagalingam Suntharalingam
1993: Colin G. Orton
1994: F. Herb Attix
1995: Robert Loevinger
1996: Leonard Stanton
1997: James A. Purdy
1998: Bengt E. Bjarngard
1999: Faiz M. Khan
2000: Lowell L. Anderson
2001: Ravinder Nath
2002: Bhudatt R. Paliwal
2003: Kenneth R. Hogstrom
2004: C. Clifton Ling
2005: Gary T. Barnes
2006: Ervin B. Podgorsak
2007: Arthur L. Boyer
2008: Paul L. Carson
2009: Willi A Kalender
2010: David W. O. Rogers
2011: Richard L. Morin
2012: Stephen R. Thomas
2013: Benedick A. Fraass
2014: Thomas Rockwell Mackie
2015: Maryellen L. Giger
2016: Paul M. DeLuca
2017: Jatinder R. Palta
2018: Radhe Mohan
2019: John Boone
2020: Randall Ten Haken
2022: Jacob Van Dyk
2023: M. Saiful Huq
2024: Cynthia H. McCollough

WILLIAM D. COOLIDGE GOLD MEDAL

This award recognizes an AAPM member for an eminent career in medical physics. It is the highest award given by AAPM.

Cynthia H. McCollough, PhD

Cynthia H. McCollough, PhD, is a leading expert in the development and evaluation of new computed tomography (CT) technology and dose reduction methods. She holds the Brooks-Hollern Professorship at the Mayo Clinic in Rochester, Minnesota, where she is a Professor in both Medical Physics and Biomedical Engineering.

Dr. McCollough has earned numerous accolades throughout her career, including the Mayo Clinic Distinguished Investigator Award in 2020. This award recognizes individuals whose research careers demonstrate great distinction, highly distinguished scholarship, creative achievement, and excellence in education and administrative responsibilities.

Her research primarily focuses on CT imaging science and technology and its clinical applications. As the founder and director of Mayo's CT Clinical Innovation Center, Dr. McCollough leads a multidisciplinary team of physicians, scientists, and trainees to develop and translate into clinical practice new CT technologies and clinical applications. Dr. McCollough has particular expertise in the quantification, management, and reduction of the radiation dose delivered to patients from CT imaging, and in the use of CT for quantitative assessment of material composition, disease progression or regression, and joint and organ function.

Dr. McCollough is committed to educating healthcare personnel and the public about the safety of medical imaging. She has contributed significantly to the fields of photon-counting, multi-energy, and cardiac CT and has a keen interest in the history of CT imaging.

She is a Fellow of the American Association of Physicists in Medicine, the American College of Radiology, and the American Institute for Medical and Biological Engineering. Dr. McCollough has over 500 peer-reviewed publications related to CT imaging and holds 39 U.S. and international patents. She is the principal investigator of numerous research grants, including two current and eight previous grants from the US National Institutes of Health.

Dr. McCollough's dedication to mentoring is evident, with over 130 past post-doctoral, pre-doctoral, and undergraduate trainees. She remains active in numerous professional organizations. She is a Past President of the American Association of Physicists in Medicine (AAPM) and serves as Vice President and Board Member of the International Society of Computed Tomography.

She chairs the U.S. Food and Drug Administration's Technical Electronic Product Radiation Safety Standards Advisory Committee and is a member of the National Institute of Biomedical Imaging and Bioengineering's Advisory Council and the International Electrotechnical Commission's CT standards committee. Dr. McCollough is a past member of the U.S. National Council on Radiation Protection and Measurements and chaired the committee that developed the physics portion of the American College of Radiology's CT Accreditation Program.

Born in Ontario, Canada, and raised in the USA, Dr. McCollough graduated summa cum laude in Physics from Hope College in Holland, Michigan. She earned her Master's and Doctorate in Medical Physics from the University of Wisconsin, Madison. In 2020, she was awarded an honorary doctorate from Linkoping University in Sweden.

Dr. McCollough's personal life is as fulfilling as her professional one. She has been married to Kevin McCollough, also a medical physicist, for 38 years. They are blessed to be the parents of two wonderful adult children, Brian and Shannon.

Congratulations

TO ALL 2024 AWARD RECIPIENTS!

American Association of Physicists in Medicine
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www.aapm.org

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