The American Association of Physicists in Medicine

Awards Ceremony

July 21, 2014 • 6:30 p.m.

Austin Grand Ballroom, Hilton • Austin, TX

AAPM 56th Annual Meeting & Exhibition

July 20-24, 2014 • Austin, TX

Austin Convention Center

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 to advance the science, education and professional practice of medical physics.

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2014 Program

Welcome and Presentation of Awards
John E. Bayouth, Ph.D.
AAPM President

Honoring Deceased AAPM Members

AAPM Fellowships and Grants

Research Seed Funding Initiative

Jack Fowler Junior Investigator Award

John R. Cameron Young Investigator Awards

AAPM Award for Innovation in Medical Physics Teaching

***Journal of Applied Clinical Medical Physics* Paper Awards**

Farrington Daniels Paper Award

Moses and Sylvia Greenfield Paper Award

Honorary Membership

Fellows

Recognition of 50+ Years of AAPM Membership

Marvin M.D. Williams Professional Achievement Award

Edith H. Quimby Lifetime Achievement Award

William D. Coolidge Award

Closing Remarks

Reception immediately following

AAPM Fellowships & Grants

■ AAPM Support for Clinical Residency in Imaging Medical Physics

AAPM and RSNA are partnering to provide matching support for new imaging physics residencies, either diagnostic or nuclear medicine. The recipients are:

University of Chicago – Zhengfeng Lu
Duke University – Ehsan Samei
Emory University – Jonathan A. Nye
Indiana University School of Medicine – Yun Liang
University of Oklahoma – Jagadeesh Sonnad

■ AAPM Fellowship for the Training of a Doctoral Candidate in the Field of Medical Physics

Awarded for the first two years of graduate study leading to a doctoral degree in Medical Physics. The recipient is:

University of Wisconsin – Erin Beth Adamson

■ The American Association of Physicists in Medicine (AAPM) Diversity Recruitment through Education and Mentoring Program "DREAM" (formally MUSE)

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 interest. Students are selected for the program on a competitive basis to be a DREAM fellow. Each DREAM fellow receives a stipend from the AAPM. The MUSE Fellows for 2014 are:

Arun Chockalingam
Taylor Ashley German
Alice Huang
Morgan Killefer
Duck Kyeom Kim
Flavia Lopez
Nyasha Gracious Maforo
Helen Louise Sporkin
Gabriella Tesfay

■ 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, the AAPM serves as a clearinghouse to match exceptional students with exceptional medical physicists, many who are faculty at leading research centers. Students participating in the 10-week program are placed into summer positions that are consistent with their interest. Students are selected for the program on a competitive basis to be an AAPM summer fellow. Each summer fellow receives a stipend from the AAPM. The Summer Undergraduate Fellows for 2014 are:

Brian Mark Anderson
Molly Claire Cook
Lianna Dora Di Maso
Franklin W. Feingold
Amy Leigh Freeman Frederick
Jocelyn Mary Hoye
Steven LaCount
Mark Leibensperger
Kayla Rae Mendel
Mary Elizabeth Peters
Ashma Shiwakoti

■ Summer School Scholarships

These scholarships are offered to applicants who are early in their careers in medical physics. The 2014 scholarship recipients are:

Gabriela Holley
Adam Torres
Matthew Deeley
Lindsey Fox
Yida Hu

In addition, Capintec Inc. sponsors two grants to assist with other expenses related to the Summer School. Capintec established these grants to honor the memory of Arata Suzuki, Ph.D., who was part of Capintec Inc. for more than 20 years. ***Gabriela Holley*** and ***Adam Torres*** are the recipients of the *2014 Capintec Suzuki Grants.*

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Research Seed Funding Initiative

These grants are awarded to provide funds to develop exciting investigator-initiated concepts, which will hopefully lead to successful longer 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 2014 are:
Grace Jianan Gang, Ph.D. – Johns Hopkins University
Jongmin Cho, Ph.D. – The University of Texas MD Anderson Cancer Center

Jack Fowler Junior Investigator Award

Established in honor of Dr. Jack Fowler, Ph.D., Emeritus Professor of Human Oncology and Medical Physics, University of Wisconsin. Junior Investigators were encouraged to submit abstracts for the competition. The top scoring Junior Investigator submission determined by abstract reviewers was selected and the award is presented to:
Adam S. Wang, Ph.D.

John R. Cameron Young Investigator Awards

Each year the AAPM conducts a Young Investigators' Competition for the Annual Meeting. Young Investigators were encouraged to submit abstracts for the competition. The 10 highest scored Young Investigator submissions determined by abstract reviewers are selected to be presented in a special symposium, in honor of University of Wisconsin Professor Emeritus John R. Cameron, Ph.D. ***TBD***

AAPM Award for Innovation in Medical Physics Teaching

The Award for Innovation in Medical Physics Teaching is generously supported by a bequest from the estate of Dr. Harold Marcus. It is given for innovative programs in medical physics education of physicists, physicians, ancillary personnel and the public and is presented to: ***TBD***

Journal of Applied Clinical Medical Physics Best Paper Awards

■ **Award of Excellence for an Outstanding Radiation Oncology Article**
The Award of Excellence for and Outstanding Radiation Oncology Article published in the JACMP in 2013 is presented to:

Qingyang Shang
Lawrence J. Sheplan Olsen
Kevin Stephans
Rahul Tendulkar
Ping Xia

for the paper entitled "*Prostate rotation detected from implanted markers can affect dose coverage and cannot be simply dismissed,*" *Journal of Applied Clinical Medical Physics* 14, No. 3, (2013).

■ **Award of Excellence for the Best Medical Imaging Article**

The Award of Excellence for the Best Medical Imaging Article published in the JACMP in 2013 is presented to:

Didem Yamak
William Pavlicek
Thomas Boltz
Prasad M. Panse
Metin Akay

for their paper entitled "*Coronary calcium quantification using contrast-enhanced dual-energy computed tomography scans,*" *Journal of Applied Clinical Medical Physics* 14, No. 3, (2013).

■ **Award of Excellence for the Best Radiation Measurements Article**

Award of Excellence for the Best Radiation Measurements Article published in the JACMP in 2013 is presented to:

Aizhen Zhang
Ning Wen
Teamour Nurushev
Jay Burmeister
Indrin J. Chetty

for their paper entitled "*Comprehensive evaluation and clinical implementation of commercially available Monte Carlo dose calculation algorithm,*" *Journal of Applied Clinical Medical Physics* 14, No. 2, (2013).

■ **Editor In Chief Award of Excellence for an Outstanding General Medical Physics Article**

Editor In Chief Award of Excellence for an Outstanding General Medical Physics Article published in the JACMP in 2013 is presented to:

Gloria P. Beyer

for her paper entitled "*Commissioning measurements for photon beam data on three TrueBeam linear accelerators, and comparison with Trilogy and Clinac 2100 linear accelerators,*" *Journal of Applied Clinical Medical Physics* 14, No. 93, (2013).

Farrington Daniels Award

The Farrington Daniels Award for the best paper on Radiation Dosimetry published in *Medical Physics* in 2013 is presented to:

A. Kyle Jones and Louis K. Wagner

for their paper entitled "*On the (f)utility of measuring the lead equivalence of protective garments,*" *Med. Phys.* 40, 063902 (2013).

Moses & Sylvia Greenfield Award

The Moses and Sylvia Greenfield Award for the best paper (other than Radiation Dosimetry) published in *Medical Physics* for 2013 is presented to:

Paul M. Meaney
Amir H. Golnabi
Neil R. Epstein
Shireen D. Geimer
Margaret W. Fanning
John B. Weaver
Keith D. Paulsen

for their paper entitled "*Integration of microwave tomography with magnetic resonance for improved breast imaging,*" *Med. Phys.* 40, 103101 (2013).

Honorary Membership

Honorary membership into the AAPM is bestowed upon individuals to recognize distinguished service that they have done in other socieites that supports medical physics. Thus the award not only honors the individual but also strengthens the links between the AAPM and the other society. This year, the AAPM will grant honorary membership to:

James A. Brink, M.D. and Sarah S. Donaldson, M.D.

Fellows

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

Samuel G. Armato, III, Ph.D.
John E. Bayouth, Ph.D.
Luc Beaulieu, Ph.D.
Chandra M. Burman, Ph.D.
Christopher H. Cagnon, Ph.D.
Maria F. Chan, Ph.D.
George X. Ding, Ph.D.
Joseph Hanley, Ph.D.
George C. Kagadis, Ph.D.
Marc L. Kessler, Ph.D.
Shidong Li, Ph.D.
Firas Mourtada, Ph.D.
Harald Paganetti, Ph.D.
Joann I. Prisciandaro, Ph.D.
Stephen A. Sapareto, Ph.D.
Steven G. Sutlief, Ph.D.
Lu Wang, Ph.D.
Barry W. Wessels, Ph.D.
Qing-Rong Jackie Wu, Ph.D.
Qiuwen Wu, Ph.D.

Recognition of 50+ Years of AAPM Membership

Marvin M. D. Williams Professional Achievement Award

This award recognizes an AAPM member for an eminent career in medical physics with an emphasis on clinical medical physics. The recipient of the 2014 AAPM Marvin M. D. Williams Professional Achievement Award is:

Herbert W. Mower, Sc. D.

Edith H. Quimby Lifetime Achievement Award

This award recognizes AAPM members whose careers have been notable based on their outstanding achievements. The receipients for the 2014 Award for Achievement in Medical Physics are:

Howard I. Amols, Ph.D., Bruce H. Curran, M.Eng. and Edward L. Nickoloff, D.Sc.

William D. Coolidge Award

The AAPM's highest honor is presented to a member who has exhibited a distinguished career in medical physics, and who has exerted a significant impact on the practice of medical physics. The recipient of the 2014 AAPM William D. Coolidge Award is:

Thomas Rockwell Mackie, Ph.D.

Honorary Membership

JAMES A. BRINK, M.D.

James A. Brink is Radiologist-in-Chief at the Massachusetts General Hospital and the Juan M. Taveras Professor of Radiology at Harvard Medical School. He earned a B.S. degree in Electrical Engineering at Purdue University and an M.D. at Indiana University before completing his residency and fellowship at MGH in 1990. He joined the faculty at the Mallinckrodt Institute of Radiology at Washington University School of Medicine where he rose to the rank of Associate Professor prior to joining the faculty at Yale University in 1997. Dr. Brink served as Chair of the Yale Department of Diagnostic Radiology from 2006 to 2013 prior to returning to MGH as Radiologist-in-Chief.

While he has broad experience in medical imaging, including utilization and management of imaging resources, he has particular interest and expertise in issues related to the monitoring and control of medical radiation exposure. Dr. Brink is a fellow of the Society for Computed Body Tomography/Magnetic Resonance, a fellow of the American College of Radiology (ACR), and Past-President of the American Roentgen Ray Society (2012). For the ACR, he serves as Vice-Chair, Board of Chancellors. For the National Council for Radiation Protection and Measurements (NCRP), Dr. Brink is the Scientific Vice-President for Radiation Protection in Medicine. For the International Society of Radiology, Dr. Brink serves as Chair of the International Commission for Radiology Education, and for the Radiological Society of North America, he serves as Co-Chair of "Image Wisely," a social marketing campaign to increase awareness about adult radiation protection in medicine.

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SARAH S. DONALDSON, M.D.

Dr. Sarah S. Donaldson is the Catharine and Howard Avery Professor at Stanford University School of Medicine and Associate Residency Program Director in the Department of Radiation Oncology at Stanford. She also serves as the Chief of the Radiation Oncology service at the Lucile Packard Children's Hospital at Stanford. She is recognized as an authority in clinical radiation oncology, with particular interest and expertise in childhood cancer, breast cancer, lymphomas, and sarcomas. She has a long time interest in the late effects of cancer and its treatment.

Dr. Donaldson received her undergraduate and nursing degrees from the University of Oregon, a BMS from Dartmouth Medical School in 1966, and her MD from Harvard Medical School in 1968. She completed her Radiation Oncology residency at Stanford, joined the faculty in 1973, and has served Stanford continuously since that time.

A member of many professional organizations, Dr. Donaldson has held numerous national leadership roles. She is a former president and the first female president of both the American Board of Radiology and the American Society of Therapeutic Radiology and Oncology. She also has been President of the Radiological Society of North America (RSNA) and a trustee of the R&E Foundation of the RSNA. In addition, she has served the Board of Directors of the American Society of Clinical Oncology.

Dr. Donaldson has received numerous honors and awards including the Marie Curie Award of the American Association for Women Radiologists, the Janeway Medal of the American Radium Society, the Henry S. Kaplan Memorial Prize for teaching, the Hoppe Leadership award, the Hewlett Award from the Department of Medicine and the Dean's Medal at Stanford. She has received gold medals from the del Regato Foundation, the American College of Radiology, and the American Society for Therapeutic Radiology and Oncology. She is a fellow of the American Association for the Advancement of Science member of The National Academies Institute of Medicine.

Fellows

SAMUEL ARMATO, PH.D.

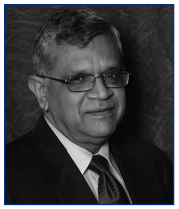
Samuel G. Armato III earned his Ph.D. in Medical Physics in 1997 from The University of Chicago. He is now an Associate Professor in the Department of Radiology at The University of Chicago, where he is Chair of the Committee on Medical Physics and the Director of the Graduate Program in Medical Physics. He is the coordinator of physics education for the radiology residents in his department and the faculty director of the university's Human Imaging Research Office. Among multiple other AAPM committees, he has been a member of the Medical Physics Journal Business Management Committee since 2006 and Chair of the Committee since 2010. He has been on the Medical Physics Editorial Board since 2008. He is the founding Treasurer of the Society of Directors of Academic Medical Physics Programs, a position he has held since the Society was created from an AAPM Task Group in 2009. Dr. Armato has published over 70 articles in peer-reviewed journals.

JOHN BAYOUTH, PH.D.

Dr. Bayouth received his Ph.D. from the MD Anderson Cancer Center in Medical Physics in 1993. He is currently a Professor and was named the first Bhudatt Paliwal endowed chair in Radiation Oncology Physics in in the Department of Human Oncology, at the University of Wisconsin in Madison. He has served on over 50 AAPM groups and is currently the AAPM President. He has served through a prolonged commitment to Medical Physics Residency education. Dr. Bayouth is a scientific investigator with many years of experience in intensity modulation radiation therapy treatment planning (IMRT), image guided radiation therapy (IGRT), respiratory gated imaging and radiation therapy, and functional imaging for treatment planning and response to therapy. He is the Principal Investigator on an NCI funded R01 studying Pulmonary Function Change following radiation therapy using 4DCT.

LUC BEAULIEU, PH.D.

Luc Beaulieu received his Ph.D. from Universitè Laval in 1996. After a postdoctoral fellowship in Berkeley, California, he worked as a research scientist at the Indiana University Cyclotron Facility in Bloomington. In 2000, he took the leadership of the medical physics research group at Quebec City University Hospital. Under his leadership, a formal graduate medical physics teaching curriculum was set-up and became CAMPEP accredited in 2011. Dr. Beaulieu is a full professor (tenured) at Universitè Laval and Director of the CAMPEP graduate program. He is a member of the AAPM Brachytherapy Subcommittee, of TG-192, was the Chair of TG-186 (published in 2012) and now leads the AAPM/ESTRO/ABG Working Group on Model-Based Dose Calculations in brachytherapy. He has mentored 65 graduate students and postdoctoral fellows, published 158 peer-reviewed manuscripts and over 330 abstracts at national and international meetings. He is a recognized expert in scintillation dosimetry and brachytherapy.

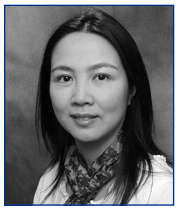


CHANDRA BURMAN, PH.D.

Chandra Burman received his Ph.D. in Physics from the State University of New York at Albany in 1980, and completed a fellowship in Medical Physics at the Memorial Sloan-Kettering Cancer Center in 1986. He joined the staff of Memorial Sloan-Kettering in 1987. His primary research interest is the development and clinical implementation of external-beam radiation therapy, particularly conformal radiation therapy and image-guided radiation therapy. He has presented his research at national and international meetings. He is certified by American Board of Radiology in Therapeutic Radiological Physics. He is active in local AAPM chapter and has served as the President of RAMPS. He is a member of AAPM and ASTRO. Currently, he is Attending Physicist at Memorial Sloan-Kettering and heads the Regional Network Section in the Department of Medical Physics. He has published over 90 peer-reviewed papers/book chapters.

CHRISTOPHER CAGNON, PH.D.

Christopher Cagnon joined the Radiology Department at the University of California, Los Angeles in 1985 where he built a Clinical Physics program. He received his Ph.D. at UCLA in 2003 and is currently Associate Clinical Professor in Radiological Sciences and Chief of Clinical Radiology Physics for the UCLA Enterprise, teaching both Radiology residents and graduate students. Dr. Cagnon has served in several capacities for the AAPM. Locally he served as President and representative of the Southern California Chapter to the National Board. Nationally he is a member of the Radiation Protection and Radiation Safety Subcommittees and served as Chair of TG 217-Radiation Dose from Airport X-Ray Scanners. He is board certified by the American Board of Radiology in Diagnostic Physics, has been active in the American College of Radiology and the American College of Radiology Imaging Network and currently serves as Physics representative to the California Radiologic Certification Committee.

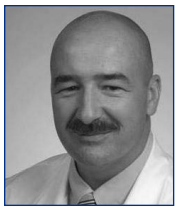


MARIA CHAN, PH.D.

Maria Chan received her Ph.D. from the Medical College of Ohio in 1995 and was certified by the American Board of Medical Physics in 1998. She joined the faculty of the Department of Medical Physics at Memorial Sloan-Kettering Cancer Center (MSKCC) in 1999, where she currently serves as Attending and Chief Physicist at the MSKCC regional network in New Jersey. She served as Chairperson of the Practice Guidelines Subcommittee for 6 years and has been a member of 8 other AAPM committees, work groups, and task groups. She served as a member of the AAPM Board of Directors and President of the New Jersey Chapter. Dr. Chan has published over 45 peer-reviewed papers and book chapters, over 30 invited national and international presentations, and has had two award-winning papers. She has served on two Editorial Boards. Dr. Chan also serves on a number of other professional societies, including ACR, ACRO, and NACMPA.

GEORGE DING, PH.D.

George Ding, Ph.D. is a Professor and Director of Medical Physics at Vanderbilt University. His earlier work included the development of the BEAM code used throughout the world. The work on stopping-power ratios for electron beams led to a new reference calibration depth used by international dosimetry protocols. His research interests involve applying Monte Carlo methods to radiation dosimetry, treatment planning and estimation of radiation exposure to patients resulting from imaging guidance procedures. He has supervised M.S., Ph.D. students and residents. He has served as a research grant reviewer for NIH and the Natural Sciences and Engineering Research Council of Canada (NSERC). He serves on the committee of The National Academies on Research Directions in Human Biological Effects of Low Level Ionizing Radiation; chairs AAPM TG-180 report; serves on ICRU Report Committee, and AAPM committees and task groups. He earned a Ph.D. from Carleton University.



JOSEPH HANLEY, PH.D.

Joe Hanley received his Ph.D. in Physics from Lehigh University in 1992. After his postdoctoral fellowship at Memorial Sloan-Kettering Cancer Center he stayed on staff as an Assistant Attending until 2000. Since then he has lead busy clinical programs as Chief Physicist at St. Lukeís-Roosevelt and Director of Medical Physics at Hackensack University Medical Center. He is currently Director of Medical Physics for Princeton Radiation Oncology where he runs the Medical Physics programs for four hospitals and one free standing center. Joe has served as President of New Jersey Medical Physics Society and State representative to the AAPM Board. He is on the New Jersey Radiation Advisory Committee. He has been an active volunteer for the AAPM serving as a member of multiple Task Groups, Work Groups, Committees and Subcommittees. He is author of almost 20 original articles, book chapters and proceedings and over 50 abstracts.

GEORGE KAGADIS, PH.D.

George C. Kagadis, Ph.D., is Assistant Professor with tenure on Medical Physics and Medical Informatics at University of Patras, Greece. He received his degree in Physics from the University of Athens, Greece in 1996 and both his M.Sc. and Ph.D. in Medical Physics from the University of Patras, Greece in 1998 and 2002, respectively. He is a Greek State Scholarship Foundation grantee, a Fulbright Research Scholar, and a Full AAPM member. He recently spent a 6-month sabbatical in the Department of Imaging Physics at MD Anderson Cancer Center with Dr. John Hazle. He has authored over 75 journal papers in peer-reviewed journals and presented over 50 talks in national and international conferences. He has been involved in European and national projects, including e-health. His current research interests focus on medical image processing and analysis, molecular imaging, theranostics, IHE as well as CAD applications. He has served in many capacities in the American Association of Physicists in Medicine. He is currently AAPM Website Editor, chair of the European Affairs Subcommittee, and serves as an Associate Editor of *Medical Physics.*

MARC KESSLER, PH.D.

Marc Kessler received his Ph.D. in Biophysics from the University of California at Berkeley in 1989. During graduate school he worked with George Chen on the heavy ion radiotherapy program at the Lawrence Berkeley Laboratory where he developed some of the original techniques to integrate MR and PET image data into CT-based treatment planning. After graduating, he joined the faculty at The University of Michigan Medical School where he is now the Allen S. Lichter M.D. Professor in Radiation Oncology. Marc continues to develop image and data processing techniques for patient management, treatment planning and treatment delivery and works with industry partners to translate these techniques to the broader medical physics community. He has created and taught a variety of courses on imaging in radiotherapy for the AAPM and has been a chairperson or member of several AAPM committees. Marc is also the Director of the Winter Institute of Medical Physics.

SHIDONG LI, PH.D.

Shidong Li, Ph.D. obtained his B.Sc. and M.Sc. in China. He changed his career path from a college teacher to Medical Physicist in 1987, entered the Medical Physics Graduate Program at University of Chicago and earned a Medical Physics Ph.D. degree in 1995. Dr. Li finished his fellowship training at Stanford University in 1996, became a Clinical Physicist in Mercy Fitzgerald & Mercy Philadelphia Hospital in 1996, took a tenure track faculty position at Johns Hopkins University Cancer Center from 1997 to 2005, and accepted the Director of Medical Physics position at Henry Ford Health system from 2005 to 2007. Since 2007, he has served as Chief Medical Physicist and Full Professor at Temple University Hospital. In addition to administration, teaching, and clinical services, Dr. Li is dedicated to new technique developments and clinical implementation including computer-aided brachytherapy, IMRT, IGRT, gene therapy, and hyperthermia. As PI, he has initiated several clinical trials with over 50 articles and almost every year with oral presentations.

FIRAS MOURTADA, PH.D.

Firas Mourtada received his Ph.D. degree from Johns Hopkins in 1998. After completing a post-doctoral fellowship at the National Institute of Standards and Technology, he joined Guidant Corporation in Houston, TX to develop novel intravascular brachytherapy devices until 2002 when he joined the clinical faculty at MDACC where he was an Assistant Professor until 2009, and then a tenured Associate Professor. He is currently the Chief of Clinical Physics at Christiana Care in Newark, Delaware, and an Adjunct Associate Professor at both MD Anderson and Thomas Jefferson University. Dr. Mourtada has served in many capacities in the AAPM. He is currently a member of several task groups focused toward brachytherapy, serves as the President-Elect for the AAPM Delaware Valley Chapter, and as an Associate Editor for the *Medical Physics* journal. He is board certified by the ABR and serves on the Board of the American Brachytherapy Society. Dr. Mourtada has published ~60 original articles, and was successful to obtain several peer-reviewed grants including being the PI of R01 grant "A Novel Dose Calculation Method for Targeted Radionuclide Therapy."

HARALD PAGANETTI, PH.D.

Harald Paganetti is the Director of Physics Research at Radiation Oncology at Massachusetts General Hospital and a Professor at Harvard Medical School. He received his Ph.D. in Physics in 1992 in Bonn, Germany. He has authored and co-authored more than 130 peer-reviewed publications and has edited a book on Proton Therapy Physics. For his research he has been awarded numerous grants from the NCI and has received the Excellence in Mentoring Award from Harvard Medical School. From 2009-2012 he was the Chair of the IOMP Science Committee. He is currently a member of the NCI-RTB study section as well as a member of the NCRP. He also serves as an Associate Senior Editor of the *International Journal of Radiation Oncology, Biology and Physics* and is Vice-Chair of the Clinical, Translational and Basic Science Advisory Committee of ASTRO. He has served the AAPM in various committees and was the Therapy Program Director in 2012. He is currently a member of the Treatment Delivery Subcommittee, the Working Group on Navigation and Grantsmanship Educations, the Working Group on Particle Beams, and is the Chair of TG-256 on proton RBE.

JOANN PRISCIANDARO, PH.D.

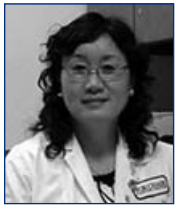
Joann Prisciandaro received her Ph.D. in Chemical Physics at Michigan State University in 2001. Following graduation, she worked as a research fellow in the department of Radiation Oncology at the Mayo Clinic in Rochester, Minnesota. In 2004, Dr. Prisciandaro joined the clinical faculty at the University of Michigan, where she is now an Assistant Professor in the Radiation Physics Division and the Director of the Medical Physics Residency program. Dr. Prisciandaro is board certified by the American Board of Radiation in Therapeutic Medical Physics. She is actively involved in a number of AAPM committees, subcommittees, and working groups, and currently chairs the Work Group on Periodic Review of Medical Physics Residency Training. She is a member of the AAPM and CAMPEP board of Directors.

STEPHEN SAPARETO, PH.D.

Stephen Sapareto received a B.S. in Physics from the University of Massachusetts, a M.S. in Health Physics and a Ph.D. in Radiation Biology from Colorado State. After a Fellowship at Stanford and a faculty position at Washington University, St. Louis, he continued research in hyperthermia and tumor biology at Wayne State and the City of Hope. He developed a unit of thermal dose still in use. In 1992, he moved to Good Samaritan Medical Center, Radiation Oncology in Phoenix as a Medical Physicist. After a position as Head of Medical Physics at the University of Arizona in Tucson, he became Director of Medical Physics at Banner Good Samaritan Medical Center and now Banner MD Anderson Cancer Center. He has contributed to the AAPM as a member of the Science Council, Chair and member of the Biological Effects Committee and is currently on the Board of Directors as representative and President of the Arizona Chapter of the AAPM which he helped create in 2010. He has trained students and residents and has over 50 peer reviewed publications.

STEVEN SUTLIEF, PH.D.

Following his Ph.D. in experimental particle physics, Dr. Sutlief was a post-doctoral fellow at the University of Washington with research in IMRT. Since then he has been Chief Medical Physicist at the VA Puget Sound Health Care System in Seattle. He served as Northwest AAPM chapter president and as chapter representative to the AAPM Board of Directors. Dr. Sutlief has worked to advance radiation therapy within the Department of Veterans Affairs, including an agency-wide purchase of radiotherapy equipment, radiotherapy device interconnectivity, consultation for the VA National Health Physics Program, participation in several investigations, and development of qualification standards for therapeutic medical physicists. He has coauthored 45 articles and book chapters related to therapeutic medical physics. Dr. Sutlief developed and taught the physics curriculum for the Bellevue College Medical Dosimetry program. He served as a consultant to the IAEA and as a member of NCRP and IHE-RO.



LU WANG, PH.D.

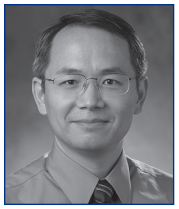
Lu Wang received her Ph.D. degree from the AAPM accredited Medical Physics program at Rush University in 1996. After graduating, she went on to receive her postdoctoral fellowship and residency training from the Memorial Sloan-Kettering Cancer Center. In 1998, she was offered a faculty position in the Department of Radiation Oncology at the University of Pennsylvania, where she worked for four years. In 2002, she joined the Fox Chase Cancer Center as a faculty member and has continued to serve there ever since. Currently, Dr. Wang is an Associate Professor at Fox Chase and serves as an Associate Editor for the AAPM's *Journal of Applied Clinical Medical Physics*. She is also a member of several committees and working groups. Dr. Wang was a Finalist in the AAPM's Young Investigator Symposium in 1997 and the recipient of the AAPM/IPEM Medical Physics Travel Grant in 2010. She is board-certified by the American Board of Radiology in Therapy. Dr. Wang has first authored 14 peer-reviewed papers, one-book chapter, and published over 40 papers in peer-reviewed journals.

BARRY WESSELS, PH.D.

Barry Wessels received his Ph.D. from the University of Notre Dame in 1975. After postdoctoral training at the University of Wisconsin, he obtained his ABR certification in therapy during clinical assignment in Ohio. Returning to research in 1981, he led the nuclear medicine research at the MIT Reactor Lab and then onto George Washington University as Medical Physics Section Head and Professor. Moving back to his wife Sharon's roots in 1999, he continues to serve as Professor and Director of Medical Physics at Case Medical Center, OH. Dr. Wessels served the AAPM both academically and in leadership. Notably, he served as Task Group Chair in Nuclear Medicine, Program Chair in Radionuclide Dosimetry (1987–2005), AAPM Summer School, Chapter President and member of the AAPM Board of Directors. Externally, he has served as a Vice-Chair of the MIRD committee (SNMMI), ABR examiner, President of the ABSNM, RSNA refresher course speaker and on ICRU nuclear medicine and RTOG physics committees.

QING-RONG JACKIE WU, PH.D.

Q. Jackie Wu received her Ph.D. degree from Mayo Graduate School, Mayo Clinic in Rochester, MN in 1996. After two years as a clinic medical physicist in the private sector, Dr. Wu became a faculty member in the Department of Radiation Oncology of Case Western Reserve University. In 2005, she joined Duke University and is currently a Professor of the Radiation Oncology Department and a faculty member of the Medical Physics Program. She is also an adjunct faculty member of Electrical Engineering and Computer Science Department at CWRU. Dr. Wu has served on AAPM's professional and scientific committees, task groups/work groups, as well as on NRGs medical physics committee. Dr. Wu has published over 50 peer-reviewed papers and has multiple grants funded by NIH, ACS, Whitaker Foundation, and industry. In addition, she has taught various Medical Physics courses and lectures, supervised over 15 Ph.D./M.S. students and postdoc fellows. Dr. Wu's research interests include IGRT, adaptive RT, and knowledge based treatment systems.



QIUWEN WU, PH.D.

Dr. Qiuwen Wu received his Ph.D. in Physics from Columbia University in 1994, and went on to complete his medical physics training at Memorial Sloan Kettering Cancer Center where he became a full member of the AAPM in 1995. In 1996 he joined the medical physics faculty in the Department of Radiation Oncology at Virginia Commonwealth University (VCU) where he was promoted to Associate Professor in 2003. After serving as staff physicist at William Beaumont Hospital in Michigan for six years, Dr. Wu joined the faculty at Duke University Medical center as a Professor in 2009. His research in IMRT, IGART, and VMAT has led to over 70 papers in peer-reviewed journals, over 100 abstracts, and 12 book chapters. Dr. Wu's research has been funded by grants from NIH and industry. He has been the primary mentor to three postdoctoral fellows, three Ph.D. students, and five M.S. students. Dr. Wu is board certified by the ABR in Therapeutic Radiological Physics and is currently serving on the Editorial Board of *JACMP* and reviewer for several other journals in the field.

Marvin M. D. Williams Professional Achievement Award

HERBERT W. MOWER, SC.D.

Dr. Mower received his doctorate from M.I.T. in 1972, studying under Dr. John Trump and Kenneth Wright. Torn between a career in electrical engineering or medicine, he ended up studying medical physics. His graduate studies included clinical involvement in the MIT – Lahey Clinic radiation therapy program. Following graduation and three years in this program, he moved on to Tufts-NEMCH, Southeast Hospital in Cape Girardeau, MO and Danbury (Connecticut) Hospital, returning to Lahey Clinic in 1990. He retired from Lahey as their Director of Radiation Therapy Physics in 2013. Dr. Mower was an active ACMP member, serving as Chairman in 2007. He led the effort to merge the ACMP back into the AAPM. He has served in various roles in the AAPM including six years as chair of the Education Council and liaison to several sister organizations. He has been recognized as a Fellow by both the ACMP and AAPM. He has contributed to over 90 articles and presentations related to the clinical applications of radiation therapy physics. He has also served as an advisor or consultant to several working groups of the Conference of Radiation Control Program Directors and is an active physicist participant in the Alliance, working towards passage of the CARE bill.

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Edith H. Quimby Lifetime Achievement Award

HOWARD I. AMOLS, PH.D.

Dr. Howard Amols received his Ph.D. in Nuclear Physics from Brown University in 1974. From 1974 to 1976 he was a National Cancer Institute Postdoctoral Fellow at Los Alamos National Laboratory where he worked on particle therapy. He continued at Los Alamos and University of New Mexico Cancer center as a staff member and Assistant Professor until 1981 when he returned to Brown University/Rhode Island Hospital as Assistant Professor of Radiation Therapy. He rose to Associate Professor and Chief Physicist before transferring to Columbia University in 1986 as Chief of Radiation Therapy Physics. While at Columbia he was an early developer of intravascular radiotherapy, and is co-author of four patents in that technology. Following in the *reverse* footsteps of Edith Quimby he transferred *from* Columbia University *to* Memorial Sloan Kettering Cancer Center in 1998 where he became Chief of Clinical Physics, a position he held until his retirement in 2014. While at Memorial he directed almost 60 physicists, dosimetrists, and fellows, and played a prominent role in the development of IMRT and IGRT.

He has been a Fellow of the AAPM since 1999 and served in numerous capacities including President (2005) and Liaison to IAEA (2007–2013). Not the least of his contributions to AAPM is authorship of innumerable editorials, point-counterpoint articles, and letters to the editor, in addition to more than 140 more peer reviewed publications.

In retirement he continues as Senior Lecturer in Columbia's Campep approved medical physics degree program, which he helped found in the early 1990's.

BRUCE H. CURRAN, M.ENG.

Bruce Curran received his M.E. from the Thayer School of Engineering in 1982 and an M.S. in Computer Science from Northeastern University in 1993. He was certified by the American Board of Radiology in Radiological Physics in 1984. In 1978, he joined Tufts Medical Center and was promoted to Assistant Professor of Radiation Oncology and Radiology in 1984. In 1995, he joined Nomos Corporation, becoming Vice-President for Clinical Affairs (2001) and Technology (2002). He joined the University of Michigan in 2003 as Assistant Professor of Radiation Oncology. In 2008, he moved to Rhode Island Hospital and Brown University, where he is currently Associate Professor of Radiation Oncology with adjunct appointments at Tufts University and the University of Rhode Island.

Mr. Curran has served AAPM in a number of different roles. He has been active in both the New England and Great Lakes Chapters. He has served on more than 70 committees, working groups, and task groups. He was Local Arrangements Chair for the 1995 AAPM Annual Meeting and has been vice-chair of both the Administrative and Professional Councils. He was a member of the Board of Directors in 1987–1993 and from 2006 to present, and Secretary from 1991–1993. He is active in the AIP, ACR, and ASTRO. He is a Fellow of the AAPM and the ACMP.

Mr. Curran research interests are in improving interoperability of computer systems in radiation oncology. He was a founding member of DICOM Working Group-7 and the IHE-RO Technical Committee.

EDWARD L. NICKOLOFF, D.SC.

Dr. Edward L. Nickoloff earned a B.S. in physics from Lebanon Valley College, a M.S. in Nuclear Physics from University of New Hampshire and a D.Sc. degree in radiation science/medical physics from The Johns Hopkins University. After graduation, he held a position as an Assistant Professor of Radiology and Acting Director of Physics and Engineering at The Johns Hopkins Medical Institutions. In 1981, Dr. Nickoloff was recruited to Columbia University where he was Professor of Radiology and the Chief Hospital Physicist for 32 years. He directed

Quality Control testing, did research and taught both radiology residents and medical physics graduate students. Dr. Nickoloff is board certified by the ABR, ABMP and the ABHP; he is a Fellow of the AAPM, ACR and the ACMP. He has been a President of RAMPS, Secretary of GNYCHPS, Chairman of the ACMP, Secretary of the ABMP and twice a member of the Board of Directors of the AAPM. Dr. Nickoloff has served on various committees of the AAPM, such as: diagnostic x-ray imaging, rules, budget, finance, cardiac cath performance, education and training of radiologists and medical physicists, and others. He has served on the examination preparation panels for the RAPHEX, ABMP and the ABR. He has also been active with the ACR and RSNA. Dr. Nickoloff has been an author on 6 AAPM Reports, 2 books, 24 book chapters, 58 journal articles, 86 published abstracts and 151 professional society presentations. He has received the Lifetime Achievement award from Upstate NY physicists and the M.D. Williams award of the AAPM/ACMP.

William D. Coolidge Award Recipients

Robert J. Shalek	1973	F. Herb Attix	1994
John S. Laughlin	1974	Robert Loevinger	1995
Marvin M. D. Williams	1975	Leonard Stanton	1996
Harold E. Johns	1976	James A. Purdy	1997
Edith E. Quimby	1977	Bengt E. Bjarngard	1998
Lawrence H. Lanzl	1978	Faiz M. Khan	1999
Herbert M. Parker	1979	Lowell L. Anderson	2000
John R. Cameron	1980	Ravinder Nath	2001
James G. Kereiakes	1981	Bhudatt R. Paliwal	2002
Gail D. Adams	1982	Kenneth R. Hogstrom	2003
Edward W. Webster	1983	C. Clifton Ling	2004
Robley D. Evans	1984	Gary T. Barnes	2005
Jack S. Krohmer	1985	Ervin B. Podgorsak	2006
Warren K. Sinclair	1986	Arthur L. Boyer	2007
Gordon L. Brownell	1987	Paul L. Carson	2008
John R. Cunningham	1988	Willi A. Kalender	2009
William R. Hendee	1989	David W. O. Rogers	2010
Peter R. Almond	1990	Richard L. Morin	2011
Moses A. Greenfield	1991	Stephen R. Thomas	2012
Nagalingam Suntharalingam	1992	Benedick A. Fraass	2013
Colin G. Orton	1993		

AAPM William D. Coolidge Recipient for 2014

THOMAS ROCKWELL MACKIE, PH.D.

Thomas Rockwell Mackie grew up in Saskatoon and received his undergraduate degree in Physics from the University of Saskatchewan. He went on to earn his doctorate in Physics at the University of Alberta. His expertise is in radiation therapy treatment planning and intensity modulated radiation therapy. He is a primary inventor and algorithm designer of the helical tomotherapy concept. Dr. Mackie is an emeritus professor in the departments of Medical Physics, Human Oncology, Biomedical Engineering and Engineering Physics at the University of Wisconsin–Madison. He has over 170 peer-reviewed publications and over 40 patents.

Dr. Mackie was a founder of Geometrics Corporation. He is also co-founder and co-inventor of TomoTherapy, Incorporated an international company employing over 700 people based out of Madison, WI, USA.

At the current time, Rock is Director of Medical Engineering at the Morgridge Institute for Research. The focus of this area is to explore and build medical devices with the potential to treat or cure medical conditions in patients and to improve the movement of new devices from research lab to clinical use. This area will be the closely integrated with UW-Madison. Dr. Mackie's plans include a facility for rapid prototyping and the launch of a medical devices consortium through partnerships with companies and academia.

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Music Courtesy of Herbert W. Mower, Sc.D.

Congratulations

to all of the Award Recipients!

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