

**Joann I. Prisciandaro, Ph.D., DABR, FAAPM
Clinical Professor**

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Education and Training

Education

08/1992-05/1996 BA, Chemistry, New York University, New York, NY
05/1997-12/2001 PhD, Experimental Chemical Physics, Dissertation Title: "Beta decay studies of Ni-69 and V-58: Development of subshell gaps within the N = 28 - 50 shell", Michigan State University, East Lansing, MI

PostDoctoral Training

01/2002-09/2004 Postdoctoral Research Fellow, Radiation Oncology Physics, Mayo Clinic College of Medicine, Rochester, MN

Additional Education

06/1996-08/1996 D.O.E. Sponsored Nuclear and Radiochemistry summer school, D.O.E. sponsored Nuclear and Radiochemistry summer, San Jose State University, San Jose, CA
09/2007-06/2008 Medical Education Scholars Program, Medical Education Scholars Program, University of Michigan, Ann Arbor, MI
07/2008-08/2008 Becoming a Better Teacher of Medical Physics, Sponsored by the AAPM, Becoming a Better Teacher of Medical Physics, League City, TX
04/2017-05/2017 IBPRO - Integrating Radiobiology with Medical Physics, Detroit, MI
07/2018 Improving the Teaching and Mentoring of Medical Physics, Sponsored by the AAPM, Improving the Teaching and Mentoring of Medical Physics, Nashville, TN

Certification And Licensure

Certification

06/2006-present American Board of Radiology - Therapeutic Radiologic Physics #P3863

Academic, Administrative, Clinical, Research and Military Appointments

Academic Appointments

10/2004-08/2008 Clinical Instructor in Radiation Oncology, University of Michigan, Ann Arbor, MI
09/2008-08/2014 Clinical Assistant Professor in Radiation Oncology, University of Michigan, Ann Arbor, MI
09/2014-08/2019 Clinical Associate Professor in Radiation Oncology, University of Michigan, Ann Arbor, MI
09/2019-present Clinical Professor in Radiation Oncology, University of Michigan, Ann Arbor, MI

Administrative Appointments

06/2006-12/2008 Co-Director of the Radiation Oncology Medical Physics Residency Program, University of Michigan, Ann Arbor, MI
01/2009-06/2017 Director of the Radiation Oncology Medical Physics Residency Program, University of Michigan, Ann Arbor, MI
07/2017-06/2019 Associate Director of the Radiation Oncology Medical Physics Residency Program, University of Michigan, Ann Arbor, MI

Clinical Appointments

01/2004-09/2004 Clinical Medical Physics Fellow, Emanuel St. Joseph Hospital, Mankato, MN
09/2017-present Director of Brachytherapy Physics, University of Michigan, Ann Arbor, MI

Clinical Interests

- Brachytherapy: Director of brachytherapy physicist; Designed and developed HDR program at the main campus of University of Michigan hospital (GammaMed iX and BrachyVision); Treatment planning (BrachyVision) for intracavitary, intraluminal, surface, and interstitial implants (prostate and gynecological); Commissioning MR guided brachytherapy program, including applicator and image sequence commissioning, and redesigning clinical and treatment planning workflow. Plan checks, daily, monthly, and quarterly quality assurance and new source acceptance and calibration; Radiation safety and room design; Designed and developed documentation and radiation safety procedures for the clinical implementation of Y-90 microsphere protocol; and microsphere treatment planning, sphere assay and radiation safety; Designed and developed intravascular brachytherapy (IVBT) program at the main campus of University of Michigan hospital (Novoste Beta-Cath).
- Radiation Safety: Supervisor of departmental radiation dosimeters; Departmental liaison with Radiation Safety; member of department Variance Committee and participate in weekly review of events with department's quality safety officer; Developed and maintain Mlearning radiation safety refresher modules with radiation safety and deliver hands-on HDR emergency training; Maintain and update departmental radiation materials license and registration; and Complete and submit NRC-313A(amp) and NRC-313A(aus) documentation for residents and staff.
- External Beam: Triage of linac (Varian 21EX/iX, TrueBeam, and Edge) and simulator (CT and MR) machine calls; 3D conformal and IMRT/VMAT treatment plan checks (Varian Eclipse), and weekly chart checks; IMRT/VMAT pre-treatment quality assurance; SBRT plan check, pre-treatment QA, patient setup, image guidance, and treatment delivery.

Research Interests

- MR-guided brachytherapy
- Volume based planning for gynecological brachytherapy
- Developing clinical high dose rate brachytherapy protocols

Grants

Past Grants

Fostering Innovations Grant. Title: Fetal Shield for Radiotherapy (This grant funded the design and build of a new fetal lead shield that would be used when treating pregnant patients in the department of Radiation Oncology. As the principal investigator, my role was to work directly with engineers and machinists to design the shield, then to commission the shield for clinical use.) University of Michigan

J.I. Prisciandaro, PI
10/2010-09/2011. \$30,000

Bravos Evaluation Agreement: (The goal of this joint project is the non-clinical evaluation of a newly developed high dose rate (HDR) remote afterloader, resulting in a publication covering the process of commissioning the unit for clinical use.) Varian Medical Systems

Prisciandaro, J., PI
01/2019-01/2021. \$35,150

A road map for streamlining and standardizing the treatment of cervical cancer (This grant funds a project to: 1) assess and schematize current clinical protocols and practice patterns in cervical cancer HDR across the University of Michigan enterprise; 2) create a best practice guideline that can be tailored to available resources across multiple sites; 3) sustain and support standardized practices with recurring multidisciplinary brachytherapy rounds; and 4) investigate the application of deformable image registration (DIR) contour propagation to CT-based brachytherapy treatment planning. As the physics primary investigator, my role is to coordinate and assist in developing the workflow maps across three sites, and to lead the investigation into DIR through a retrospective treatment planning study.) University of Michigan, Dept of Radiation Oncology Seed Grant

J. Prisciandaro, D. Owen, Co-PI
07/2018-07/2019. \$25,000

Mentorship and Work-Life Integration of Members of the American Association of Physicists in Medicine: A Mixed Methods Study to Promote Gender Equity in Medical Physics Careers (The intent of this project is to: 1) explore the varied perceptions and experiences of medical physicists with regard to mentorship needs and opportunities as well as strategies for work-life integration; 2) develop an enhanced understanding of the challenges experienced in these areas, grounded in the rich, lived experiences of men and women at varying levels in the field; 3) identify potential biases and stereotypes existing in the medical physics community; and 4) catalyze future multi-institutional collaborations and research studies. As a co-investigator in this study, my role is to assist in the development of a survey tool to assist with the third objective of the study, as well as providing support to develop educational tools for our faculty and staff regarding these bias and discuss strategies to improve work-life integration.) University of Michigan, Dept of Radiation Oncology Seed Grant
Co-I (Principal Investigator: K.C. Younge)
07/2018-07/2019. \$25,000

Universal cylinder and ring applicator solid model evaluation (This grant funded the non-clinical evaluation of new commercial brachytherapy applicators and digital models available in software to expedite applicator reconstruction. As the principal investigator, my role was to commission the digital applicator models for clinical use, and to write a white paper summarizing the commissioning process.) Varian Medical Systems, Inc.- 17-PAF04154
Prisciandaro, Joann Isabella, PI
03/2017-12/2017. \$23,220 (\$23,220)

A Phase III Clinical Trial Evaluating TheraSphere® in Patients with Metastatic Colorectal Carcinoma of the Liver who have Failed First Line Chemotherapy (This grant was intended to fund the evaluation of patient outcomes when TheraSpheres are added to the second line standard-of-care chemotherapy. As a co-investigator, my role was to supervise patient dosimetry and safety during TheraSphere administration.) BTG International, LTD through a consortium with Chiltern International, Inc- 15-PAF04365
Co-I with Effort (Principal Investigator: Cuneo, Kyle)
07/2015-06/2018. \$1,214,365 (\$405,989)

Radiation Oncology Physics Residency Training Grant (This grant funded the initial accreditation application for the Radiation Oncology Medical Physics residency program. As the principal investigator, my role was to prepare the application, and coordinate with the review team to address questions leading to, during, and after their site visit.) ASTRO/AAPM- 08-0316
Prisciandaro, Joann Isabella, PI
09/2007-08/2008. \$12,000 (\$12,000)

Honors and Awards

National

1992	The Columbia Association of the Board of Education Scholarship
2014	Fellow of the American Association of Physicists in Medicine

Regional

1992-1996	Governor's Committee on Scholastic Achievement Scholarship
1998	Herbert T. Graham Scholarship, Michigan State University

Institutional

2013	The League of Educational Excellence
2015	Department of Radiation Oncology Physics Teacher of the Year Award

Memberships in Professional Societies

1996-2002	Member, American Chemical Society (ACS) Division of Nuclear Chemistry and Technology
1997-1999	Member, American Association for the Advancement of Science (AAAS)
1997-2002	Member, American Physics Society Division of Nuclear Physics (APS)
2002-present	Member, American Association of Physicists in Medicine (AAPM)
2004-present	Member, Great Lakes Chapter of the American Association of Physicists in Medicine (GLC-AAPM)
2007-2011	Provisional Member, American College of Medical Physics (ACMP)

2009-2020 Associate Member, American Society for Radiation Oncology (ASTRO)
2009-present Member, American Brachytherapy Society (ABS)

Editorial Positions, Boards, and Peer-Review Service

Editorial Boards

2010-2012 Brachytherapy Section Editor, Journal of Applied Clinical Medical Physics
2018-2019 Guest Editor Brachytherapy Issue, Seminars in Radiation Oncology

Journal Reviewer

2003-present Medical Physics Journal Reviewer (Ad Hoc)
2006-2011 Medical Dosimetry Journal Reviewer (Ad Hoc)
2006 Radiotherapy and Oncology Journal Reviewer (Ad Hoc)
2007-present International Journal of Radiation Oncology, Biology, Physics Journal Reviewer (Ad Hoc)
2010-present Journal of Applied Clinical Medical Physics (Ad Hoc)
2012-present Practical Radiation Oncology (Ad Hoc)

Teaching

Resident/House Officer

01/2006-06/2007 Natan Shtraus, B.Sc., University of Michigan
06/2006-06/2007 Christina Christou, Ph.D., University of Michigan
08/2006-08/2008 Chadd Smith, Ph. D., University of Michigan
01/2007-01/2009 Anant Gopal, Ph. D., University of Michigan
05/2007-05/2009 Yimei Huang, Ph. D., University of Michigan
07/2007-06/2010 Peng Wang, Ph. D., University of Michigan
08/2007-01/2009 Nir Honig, B. Sc., University of Michigan
05/2008-05/2011 Joel Wilkie, Ph. D., University of Michigan
09/2008-08/2011 Hanan Amro, Ph. D., University of Michigan
02/2009-02/2011 Orit El Dan, M. Sc., University of Michigan
02/2009-02/2011 Ahmad Alkhatib, Ph. D., University of Michigan
07/2009-02/2012 Colleen Fox, Ph. D., University of Michigan
07/2010-02/2013 Kelly Younge, Ph. D., University of Michigan
10/2010-06/2013 Ke Huang, Ph. D., University of Michigan
01/2011-09/2013 Bingqi Guo, Ph. D., University of Michigan
05/2011-12/2013 Shu-Hui Hsu, Ph. D., University of Michigan
07/2012-07/2014 Zacariah Labby, Ph. D., University of Michigan
03/2013-08/2015 Mohammad-Amir Owrangi, Ph.D., University of Michigan
07/2013-12/2015 Tong Zhu, Ph.D., University of Michigan
01/2014-06/2016 Elizabeth Covington, Ph.D., University of Michigan
07/2014-12/2016 Jeremy Bredfeldt, Ph.D., University of Michigan
07/2015-06/2017 Benjamin Rosen, Ph.D., University of Michigan
01/2016-06/2017 Justin Mikell, Ph.D., University of Michigan
07/2016-02/2017 Derek White, Ph.D., University of Michigan
03/2017-09/2018 Samantha Simiele, Ph.D., University of Michigan

Teaching Activity

National

- 01/2007-01/2013 American College of Radiology, examination author and physics section chair for the annual radiation oncology resident's in-service registry examination
- 05/2008 Professional Symposium on MOC Update, 25th Annual ACMP Meeting, Seattle, WA, Symposium organizer and moderator.
- 07/2008 Practical medical physics symposium on Introducing Brachytherapy into the clinic, 50th Annual AAPM Meeting, Houston, TX, Symposium organizer and moderator
- 05/2009 Professional Symposium on Starting a New Residency Program, 26th Annual ACMP Meeting, Virginia Beach, VA, Symposium organizer.
- 04/2011-05/2011 27th Annual ACMP Meeting, San Antonio, TX, Physics Therapy Chair for meeting.
- 03/2012 1st Annual Spring Clinical AAPM Meeting, Dallas, TX, Physics Therapy Co-organizer for meeting.
- 08/2012 Medical Physics Ethics in Action Symposium, 55th Annual AAPM Meeting, Charlotte, NC, Symposium organizer and moderator
- 03/2013 2nd Annual Spring Clinical AAPM Meeting, Phoenix, AZ, Physics Therapy Co-organizer for the meeting.
- 06/2013 The Osler Institute Board Review Course, Radiation Oncology Physics instructor.
- 09/2015-10/2015 AAPM Hub and Spoke Webinar Series, Co-organizer and moderator
- 12/2015 American Board of Radiology Updates for Medical Physicists, Co-organizer and co-moderator
- 03/2016 MyVarian Webinar: Imaging for Gynecologic Brachytherapy – The MR Evolution
- 06/2016 Invited faculty for the 2016 AAPM Summer School - Medical Physics Leadership Academy. Focused on sessions on team effectiveness and financial accounting.
- 08/2016 Prostate HDR Treatment Planning - Considering Different Imaging Modalities, Therapy Educational Course, 58th Annual AAPM Meeting, Washington DC, Course organizer and moderator

Regional

- 03/2006 Instructor, Michigan Radiation Therapy Registry, Jackson, MI. Topics: Radiation Physics and Biology Review, and Radiation Protection Review
- 03/2007 Instructor, 2nd Annual Michigan Radiation Therapy Registry Review, Flint, MI. Topic: Radiation Physics Review
- 11/2007 GLC-AAPM Imaging Dosimetry in Diagnostic and IGRT Symposium, Novi Michigan, Symposium co-organizer.
- 03/2008 Instructor, 3rd Annual Michigan Radiation Therapy Registry Review, Flint, MI Topic: Radiation Physics Review
- 11/2008 GLC-AAPM Licensure and Young Investigator's Symposium, Brighton, MI, Symposium co-organizer.

Institutional

- 08/1997-05/1998 Teaching Assistant, Physical Chemistry, Michigan State University
- 06/1999-08/1999 Laboratory Instructor, Nuclear & Radiochemistry, Brookhaven National Laboratory
- 09/2003-04/2004 Teaching Assistant, Radiation Therapy Physics for Radiation Oncology Residents, Mayo Clinic College of Medicine
- 04/2005 Total Body Irradiation, Treatment Planning Conference, Department of Radiation Oncology, University of Michigan
- 05/2005-04/2015 Instructor, Radiation Therapy Physics Course for Radiation Oncology Residents, University of Michigan Medical School
- 09/2005-04/2017 Instructor, RTT 431 and 432, Radiation Physics I & II, University of Michigan Medical School (offered through University of Michigan Flint)

11/2005 Sublobar resection for high risk T1N0 non-small cell lung cancer and new ACOSOG Z4032 protocol, Treatment Planning Conference, Department of Radiation Oncology, University of Michigan

06/2006-06/2013 Director of the Radiotherapy Physics Course for Radiation Oncology Residents University of Michigan

02/2007 Instructor, NERS 582 (BiomedE 582) Medical Radiological Health Engineering. Topic: Radiation Safety Concerns for High Dose Rate Brachytherapy, University of Michigan

04/2007 Maintenance of Certification, Physics Seminar, Department of Radiation Oncology, University of Michigan

06/2008 Radiation therapy for choroidal melanomas, Treatment Planning Conference, Department of Radiation Oncology, University of Michigan

08/2008 Oral Cavity Brachytherapy, Treatment Planning Conference, Department of Radiation Oncology, University of Michigan

08/2008 TheraSpheres, Microspheres Radiotherapy for Hepatic Malignancies, Treatment Planning Conference, Department of Radiation Oncology, University of Michigan

03/2010 Instructor, NERS 582 (BiomedE 582) Medical Radiological Health Engineering. Topics: Introduction to Radiation Oncology, Brachytherapy and Radiation Safety, University of Michigan

05/2010 Prostate HDR, Treatment Planning Conference, Department of Radiation Oncology, University of Michigan

08/2010 Maintenance of Certification, Physics Seminar, Department of Radiation Oncology, University of Michigan

11/2010 High Dose Rate Prostate Brachytherapy, Grand Rounds, Department of Radiation Oncology, University of Michigan

12/2010 MR-Guided HDR Prostate Brachytherapy, Treatment Planning Conference, Department of Radiation Oncology, University of Michigan

09/2011 MRI Series: Volume-based brachytherapy planning for cervical cancer, Treatment Planning Conference, Department of Radiation Oncology, University of Michigan

11/2012 Gyn Program Update/Consensus Conference, Department of Radiation Oncology, University of Michigan

12/2012 Handling NRC Reportable Events: A Case Study with Theraspheres, Treatment Planning Conference, Department of Radiation Oncology, University of Michigan

03/2013 Maintenance of Certification – A Physics Perspective, Radiation Oncology Annual Retreat, Department of Radiation Oncology, University of Michigan

03/2013 Radiation Oncology annual retreat on education, Ann Arbor, Michigan, meeting organizer and moderator.

02/2014 Managing radiotherapy patients with cardiac implantable electronic devices, Grand Rounds, Department of Radiation Oncology, University of Michigan

11/2014 Palliative Care Radiotherapy, Professional Seminar Series, Department of Radiation Oncology, University of Michigan

01/2016-present Instructor, NERS 581 - Radiation Therapy Physics, University of Michigan

03/2016 Maintenance of Certification - 2016 Updates, Physics Seminar, Department of Radiation Oncology, University of Michigan

03/2016 MR Image Guided Brachytherapy (MR IGBT) for gynecologic cancer, Treatment Planning Conference, Department of Radiation Oncology, University of Michigan

07/2017 The Key to Successful Poster Presentations, Professional Seminar Series, Department of Radiation Oncology, University of Michigan

01/2018-04/2018 Lead instructor and organizer - NERS 590 (Independent study of Radiation Protection and Safety), University of Michigan

08/2018 Managing the care of patients with cardiac implantable electronic devices receiving radiotherapy, Treatment Planning Conference, Department of Radiation Oncology, University of Michigan

10/2018	A Roadmap for Streamlining and Standardizing the Treatment of Cervical Cancer, Treatment Planning Conference, Department of Radiation Oncology, University of Michigan
07/2020	Re-envisioning the future making it a reality, Treatment Planning Conference, Department of Radiation Oncology, University of Michigan
09/2020	Re-emergence and Applications of Intravascular Brachytherapy, Treatment Planning Conference, Department of Radiation Oncology, University of Michigan
10/2020	Review and Management of Patient's with Cardiac Implantable Electronic Devices (CIEDs), Treatment Planning Conference, Department of Radiation Oncology, University of Michigan
11/2020	High Dose Rate GYN brachytherapy program update, Treatment Planning Conference, Department of Radiation Oncology, University of Michigan
04/2021	High Dose Rate GYN Brachytherapy Program, Friday Resident Seminar

Clinical Track Scholarly Contribution

Clinician-Educator

As a clinical faculty member on the clinician-educator track, my clinical and scholarly contributions have mainly focused on brachytherapy, radiation safety, and education. As the director of brachytherapy physics, I am responsible for the oversight and maintenance of the Department of Radiation Oncology's high dose rate (HDR) and intravascular brachytherapy programs. Related to education, I served as the director of the Radiation Oncology Medical Physics residency program from 2009 – 2017, and associate program director from 2006 - 2008, and July 2017 - July 2019. I teach classes in brachytherapy and safety to graduate and post graduate students in an accredited medical physics certificate program. Additionally, I supervise medical physics residents during their brachytherapy, shielding, and imaging rotations. On a national level, I chair the American Association of Physicists in Medicine (AAPM) Education Council, serve on the AAPM Board of Directors, and I am an active member of a number of other AAPM educational and professional subcommittees and task groups. I am also a member of the Society of Directors of Academic Medical Physics Programs (SDAMPP). I have been involved in the development of national recommendations and guidelines for Radiation Oncology physician and medical physics residency curricula.

Committee and Administrative Services

Committee Services

International

2015-2018	Education and Training Committee, International Organization for Medical Physics (IOMP), Member
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National

2006-2008	Medical Physics Committee, RTOG, Committee Member
2006-2011	A Phase II Trial of Samarium 153 Followed by Salvage Prostatic Fossa 3DCT or IMRT Irradiation in High-Risk, Clinically Non-Metastatic Prostate Cancer After Radical Prostatectomy, RTOG, Medical Physics Study Chair for RTOG 0622
2006-2011	Work Group on Coordination of Medical Physics Residency Programs, AAPM, Member
2007-2009	Trainee and Provisional Member Committee, ACMP, Member
2007-2010	Task Group #127, Maintenance of Certification, AAPM, Task Group Member
2008-2012	Ethics Committee, AAPM, Committee Member
2008-2012	Subcommittee on Practice Guidelines, AAPM, Vice Chair of the Subcommittee
2008-2013	Clinical Practice Committee, AAPM, Committee Member
2008-2014	Subcommittee on Physics Curriculum for Residents, ASTRO, Member
2009-2014	Subcommittee on Medical Physicists as Educators, AAPM, Subcommittee Member
2010-2011	Women's Professional Subcommittee, AAPM, Subcommittee Member
2010-2012	Education and Training of Medical Physics Committee, AAPM, Member
2010-2016	Maintenance of Certification Subcommittee, AAPM, Subcommittee Member
2010-2016	Working Group on Periodic Review of Medical Physics Residency Training, AAPM, Chair

2010-2019	Task Group #203, Management of radiotherapy patients with implanted cardiac pacemakers and defibrillators, AAPM, Member
2011-2012	Spring Clinical Meeting Subcommittee, AAPM, Therapy Physics Co-Organizer
2011-2013	Radiation Oncology Medical Physics Education Subcommittee, AAPM, Member
2011	Radiation Dosimetry and Treatment Planning Subcommittee, AAPM, Subcommittee Member
2012-2013	Subcommittee on Practice Guidelines, AAPM, Chair
2012-2013	Task Group #231, Cognitive science and education resources, AAPM, Member
2013-2014	Education and Training of Medical Physics Committee, AAPM, Vice-Chair
2013-2015	Ad Hoc Committee on Meetings Strategy, AAPM, Member
2013-2015	Spring Clinical Meeting Subcommittee, AAPM, Member
2013-2018	Commission on Accreditation of Medical Physics Educational Programs (CAMPEP) Board of Directors, Member
2013-present	The Society of Directors of Academics Medical Physics Programs (SDAMPP), Member
2013	Nominating Committee, AAPM, Member
2014-2015	ACR/AAPM Technical Standard for the Performance of High Dose Rate Brachytherapy Physics, Member
2014-2016	Commission on Accreditation of Medical Physics Educational Programs (CAMPEP), Treasurer/Secretary
2014-2017	Radiation Oncology Medical Physics Education Subcommittee, AAPM, Consultant
2014-2019	Education and Training of Medical Physics Committee, AAPM, Chair
2014-2019	Task Group No. 259 - MPPG #7 Medical Physics Extenders, AAPM, Members
2014	Nominating Committee, SDAMPP, Member
2014	Subcommittee on Practice Guidelines, AAPM, Consultant
2015-2019	Education Council, AAPM, Member
2015-2020	Task Group No. 278 - Task Group on Combined Residency and Research Training in Medical Physics (TG-Hybrid Training), AAPM, Member
2015-present	Work Group on Future Research and Academic Medical Physics, AAPM, Member
2016-2018	Working Group on MCC (Meeting Coordination Committee) Purpose, Organization and Rules, AAPM, Member
2016-present	Task Group 298, Task Group on Alternative Pathway Candidate Education and Training, AAPM, Member
2017-2019	Finance Committee, AAPM, Member
2017-present	Task Group 303 - MRI Guidance in HDR Brachytherapy - Considerations from Simulation to Treatment, AAPM, Vice Chair
2017	Working Group on Periodic Review of Medical Physics Residency Training, AAPM, Consultant
2018-2019	Commission on Accreditation of Medical Physics Educational Programs (CAMPEP) Residency Education Program Review Committee, Member
2019-2020	Ad hoc committee on the demand for and supply of imaging medical physicists: Building advocacy and a sustainable future, AAPM, Vice Chair
2019-present	Administrative Council, AAPM, Ex Officio Member
2019-present	Board of Directors, AAPM, Ex Officio Member
2019-present	Education Council, AAPM, Chair
2019-present	Education and Training of Medical Physics Committee, AAPM, Consultant
2019-present	Electronic Media Coordinating, AAPM, Ex Officio Member
2019-present	Finance Committee, AAPM, Ex Officio Member
2019-present	Professional Council, AAPM, Ex Officio Member
2019-present	Science Council, AAPM, Ex Officio Member

2019-present	Strategic Planning Committee of the Board, AAPM, Ex Officio Member
2019	Development Committee, AAPM, Member
2019	Workforce Assessment Committee, AAPM, Committee Member
2020-present	Ad Hoc Committee to Increase the Participation of Medical Physicists Assistants (MPAs) in the AAPM, Member
2020-present	American Board of Radiology Medical Physics Initial Certification Advisory Committee, Member
2020-present	Government and Regulatory Affairs Policy Sub-Committee, AAPM, Member
2020-present	Government and Regulatory Affairs, AAPM, Member
2020	Education Council, Radiological Society of North America, Member
2021-present	Ad hoc Committee to Explore Future Directions in the Science of Physics in Medicine, AAPM, Member
2021-present	Global Liaisons Committee, AAPM, Ex Officio Member
2021-present	Liaison Committee on Education, American Institute of Physics, Member
2021-present	Phase II/III study of carboplatin/paclitaxel alone or combined with either trastuzumab or trastuzumab/pertuzumab in HER2 positive, stage I-IV uterine serous carcinoma and carcinosarcoma, NRG Oncology, Physics Co-PI

Regional

2007-2009	Great Lakes Chapter of the AAPM, Secretary
2009-2011	Medical Physics Licensure State Committee, Committee Member
2012-2014	Board Representative of the AAPM, Great Lake Chapter Representative

Institutional

2003-2004	Brachytherapy working group, Department of Radiation Oncology, Mayo Clinic , Brachytherapy working group
2004-2007	Education Committee, Medical Physics Residents, University of Michigan, Education Committee
2004	Education Committee, Department of Radiation Oncology, Mayo Clinic , Education Board
2006-2008	Lean Thinking - 3D conformal treatment process, University of Michigan, Member
2006-2013	Graduate Medical Education Committee, Department of Radiation Oncology, University of Michigan, Graduate Student Education Committee
2007-2017	Medical Physics Residency Committee, Chair
2008-present	Radiation Policy Committee, University of Michigan, Radiation Policy Committee
2010-present	Variance Committee, Department of Radiation Oncology, Member
2012-2013	Radiation Oncology Annual Retreat on Education, Organized and moderated
2012-2014	Education Leadership Council, Member
2013-2014	Academy of Medical Educators, Member
2013-2014	Faculty Development and Monthly Conferences Workgroup, Member
2013-present	Clinical Radiation Safety Committee, Member
2015-present	Medical Physics Certificate Committee, Member
2016-present	Clinical Competency Committee, Department of Radiation Oncology, Member
2017-2020	Radiation Oncology Winter Retreat, Organized and moderated
2017-present	Medical Physics Residency Committee, Member
2019-present	Advisory Committee on Clinical Track Appointments and Promotions (CLINACAP), Member
2019-present	Faculty Development, Michigan Medicine, Liaison
2021-present	Equity and Wellness Committee, Department of Radiation Oncology, Member

Administrative Services

Volunteer

2010-2019 Residency Program Site Reviewer, Commission on the Accreditation of Medical Physics Educational Programs, College Park, MD, Review medical physics residency accreditation applications and perform site reviewson behalf CAMPEP.

Visiting Professorships and Extramural Invited Presentations

Visiting Professorships

09/2012 Evolution of Prostate Brachytherapy, University of Pennsylvania, Department of Radiation Oncology, September 2012, Philadelphia, PA

05/2020 Medical Physics Clinical Development and Research Advancements at the University of Michigan, University Medical Center Groningen, May 2020, Groningen, Netherlands (Canceled due to COVID-19)

Extramural Invited Presentations

1. EPID-based Methodology to Evaluate CTV-to-PTV Margins, American Association of Medical Dosimetrists Region II Meeting, May 2004, Rochester, MN
2. Introduction to Radiation Therapy and the Role of Medical Physicists, American Chemical Society National Meeting, June 2006, Atlanta, GA
3. Complex RT Cases, Michigan Society of Radiologic Technologists Annual Meeting, September 2006, Midland, MI
4. Parts 2 and 3 of the Radiation Oncology ABR Physics Exam, Professional Symposium, ACMP Annual Meeting, June 2007, Baltimore, MD
5. From licensing to QA, how to implement HDR brachytherapy into your clinic, AAPM Annual Meeting, July 2008, Houston, TX
6. Introduction to radiation oncology physics, American Chemical Society National Meeting, August 2008, Philadelphia, PA
7. Developing and Maintaining a Safe HDR Brachytherapy Practice, Annual ACMP Meeting, May 2010, San Antonio, Texas
8. Quality Assurance Challenges, SEAAPM Symposium, April 2011, Myrtle Beach, South Carolina
9. Initiative for Medical Physics Practice Guidelines, Great Lakes Chapter AAPM, Fall Scientific Meeting, November 2011, Novi, Michigan
10. A Review of the Maintenance of Certification (MOC) Process, Great Lakes Chapter-AAPM, May 2012, Troy, Michigan
11. An Institutional Experience Managing the Care of Patients with CIEDs, Spring Clinical AAPM Meeting, March 2014, Denver, CO
12. The Use of Checklists and Audit Tools for Safety and QA, AAPM Annual Meeting, July 2015, Anaheim, CA
13. Evolution and current status of medical physics residency training, Penn-Ohio chapter of the AAPM, September 2015, Cleveland, OH
14. MR-Guided Brachytherapy, Penn-Ohio Chapter of the AAPM, September 2015, Cleveland, OH
15. Prostate HDR Treatment Brachytherapy Planning - Considering Different Imaging Modalities, AAPM Annual Meeting, July 2016, Washington, DC
16. Challenges of implementing new technology and the value of standard practice, ASTRO Annual Meeting, September 2016, Boston, MA
17. Future trends in residency training, AAPM Annual Meeting, July 2017, Denver, CO
18. HDR Brachytherapy: Interstitial Treatments for GYN Panel Discussion, AAPM Annual Meeting, July 2017, Denver, CO
19. Overview of MRI for HDR Brachytherapy in the treatment of gynecologic and prostate cancer, Spring Clinical AAPM Meeting, April 2018, Las Vegas, NV
20. Panel Discussion: Issues and Obstacles in Implementing Reform, AAPM Workshop on Improving the Teaching and Mentoring of Medical Physics, July 2018, Nashville, TN
21. Provocative questions in medical physics, AAPM Annual Meeting, July 2018, Nashville, TN

22. Overview of MRI for HDR Brachytherapy in the treatment of gynecologic and prostate cancer, Great Lakes Chapter of the AAPM, November 2018, Ann Arbor, MI
23. Optimizing the MRI workflow in your clinic, American Brachytherapy Society Annual Meeting, June 2019, Miami, FL
24. Review of Cardiac Implantable Electronic Devices (CIEDs) and Potential Device Malfunctions due to Radiotherapy, AAPM Annual Meeting, July 2020, Virtual
25. Re-emergence and Applications of Intravascular Brachytherapy, ASTRO Annual Meeting, October 2020, Virtual
26. New Members Symposium: Education Council, AAPM Annual Meeting, July 2021, Virtual
27. Innovations in Medical Physics Education, AAPM Annual Meeting, July 2021, Virtual

Other

1. Using PortalVision for Organ/Target Displacement Management and EPID-based QA, Varian Medical System's IMRT, RPM-Gating and Quality Assurance Users' Meeting, August 2003, San Diego, CA
2. Introduction to Radiation Oncology Physics and Modern Treatment Techniques, Benedictine College, February 2004, Atchison, KS
3. Radiation Therapy and the Role of Medical Physicist, Saline District Library, March 2010, Saline, Michigan
4. The Evolution of HDR Prostate Brachytherapy Planning, Varian Medical Systems, October 2012, Palo Alto, CA
5. The Evolution Toward Real-Time HDR Prostate Planning, Webinar, Varian Medical Systems, April 2013, Palo Alto, CA
6. National Crisis: Where are the Radiation Professionals?
Accrediting Organization: Commission on Accreditation of Medical Physics Educational Programs, Inc., National Council on Radiation Protection & Measurements, July 2013, Washington, DC

Seminars

1. Stereotactic Radiosurgery: Gamma Knife vs. Linacs, Medical & Radiological Physics Seminar Series, Wayne State University, November 2007, Detroit, MI
2. Introduction to Radiation Oncology Physics, Nuclear Science Seminar, National Superconducting Cyclotron Laboratory, Michigan State University, February 2009, East Lansing, Michigan
3. Radiation therapy and MRI-guided brachytherapy, Nuclear Science Seminar, National Superconducting Cyclotron Laboratory, Michigan State University, March 2016, East Lansing, MI

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