



# University of Wisconsin Medical Radiation Research Center



AAPM  
ABS  
CIRMS  
IAEA SMP  
IDOS  
IBA DIS  
MRRTS  
NCCAAPM  
NSS/MIC  
PTCOG  
WCB  
WCMP

American Association of Physicists in Medicine  
American Brachytherapy Society  
Council on Ionization Radiation and Measurement  
IAEA Symposium of Medical Physics

IBA Dosimetry Invited Seminar  
MR in RT Symposium

North Central Chapter of the American Association of Physicists in Medicine  
IEEE Nuclear Science Symposium and Medical Imaging Conference  
Particle Therapy Cooperative Group  
World Congress on Brachytherapy  
World Congress on Medical Physics (IUPESM)

		<b>Presentations</b>	
<b>2021</b>	<b>Meeting</b>	<b>Title</b>	<b>Investigator</b>
	1 AAPM	Validation of Monte Carlo simulated 99mTc absorbed dose to water inside a custom SPECT/CT phantom using active and passive dosimeters	Bertinetti, Andrew
	2 AAPM	A Monte Carlo Characterization of Positional Accuracy of a Double-Focused and Double-Stack Multileaf Collimator On a 0.35 T MR-Linac	Khan, Ahtesham
	3 AAPM	Correction Factors for a Planar Windowless Extrapolation Chamber Measuring Surface Absorbed Dose to Water From An Unsealed Thin-Film Alpha-Emitting Radionuclide	Khan, Ahtesham
	4 AAPM	Characterizing the entrance dose induced by a dynamic collimation system for pencil beam scanning proton therapy using a commercial multilayer ionization chamber	Nelson, Nick
	5 AAPM	Development and validation of a TOPAS Monte Carlo model of a dynamic collimation system for pencil beam scanning proton therapy	Nelson, Nick
	6 AAPM	Characterization of imaging performance of a novel helical kVCT for use in image-guided and adaptive radiotherapy	Tegtmeier, Riley
	7 ESTRO	Tracking accuracy and margins for synchronized deliveries on Radixact using patient-specific motions	Ferris, William
	8 FRPT	Time-resolved measurements of pulsed beams using plastic scintillators and SiPMs	Kolany, Reed
<b>2020</b>			
	1 AAPM	Determination of Absorbed Dose To Water From Common Targeted Radionuclide Therapy Agents	Bertinetti, Andrew
	2 AAPM	Impact of Sampling Time On the Performance of the Exradin W2 Scintillation Detector in Beam Profile Scans	Khan, Ahtesham
	3 AAPM	Patient Dose From Kilovoltage Radiographic Images During Synchrony Treatments on the Radixact System	Khan, Ahtesham
	4 AAPM	Development and Validation of a 0.35T MR-Guided Linear Accelerator Monte Carlo Model in GEANT4	Nelson, Nick



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5	AAPM	Dose-Rate and "SSD" Dependence of Commercially Available Diamond and Diode Detectors	Nelson, Nick
6	AAPM	Development of a Known-Volume Spherical Chamber	King, Emily
7	AAPM	Investigations of Well Chamber Altitude Corrections for a Cs-131 Low Energy Brachytherapy Source	Lambeck, Jacob
8	AAPM	The Effect of Mouse Size on Dose Delivered to Mouse-Like Phantoms from an X-Rad 320 Irradiator	Stasko, Tommy
9	AAPM	Investigating Aperture-Based Approximations to Model a Dynamic Collimation System for Pencil Beam Scanning Proton Therapy	Nelson, Nick
10	AAPM	Experimental and monte carlo dosimetry of a dynamic collimation system prototype	Smith, Blake
11	AAPM	Characteristics of a compact tabletop alanine EPR system for clinical dosimetry	Smith, Blake
12	AAPM	Comparison of Dosimetry Parameters for Two Xofig Axxent Source Models	Walter, Autumn
13	AAPM	Investigation of Monte Carlo User Codes for the Simulation of the Xofig Axxent Electronic Brachytherapy Source: A Comparative Study	Walter, Autumn
14	CIRMS	A statistical analysis of HDR Ir-192 customer well chamber calibrations at an ADCL	Smith, Blake
15	PTCOG	Evaluating an aperture-based approximation to model a dynamic collimation system	Nelson, Nick
16	RRS	The Effect of Mouse Size on Energy Deposition in Mouse-Like Phantoms from an X Rad 320 Irradiator	Stasko, Tommy
17	WCB	Dosimeter Evaluation for Measurement of Radial Dose Distributions for Electronic Brachytherapy	Walter, Autumn

## 2019

1	AAPM	Size specific calibration curves to correlate dual-spiral and split-filter DECT iodine-enhancement images to iodine concentration	DiMaso, Lianna
2	AAPM	Investigation of the Thermal Dependence of a Commercial Plastic Scintillation Detector System in Photon and Electron Beams	Kolany, Reed
3	AAPM	On the accuracy and efficiency of condensed history transport in magnetic fields in GEANT4	Simiele, Eric
4	AAPM	Comparison of Patient-Specific Dose From 2.5 MV and 6 MV Imaging Beams Calculated Using a Commercial TPS	Ferris, William
5	AAPM	Characterizing the PTW microDiamond detector in Orthovoltage Radiation	Khan, Ahtesham
6	AAPM	Design Considerations for a Medium-Energy Free-Air Ionization Chamber	King, Emily
7	AAPM	Characterizing of spectral changes with measurement geometry and magnetic field strength in light guides used for scintillation dosimetry	Simiele, Eric
8	AAPM	Energy response of dosimeters in radiobiology x-ray irradiators	Viscariello, Natalie
9	AAPM	Demonstration of the Need for an Air-Kerma Rate Standard for the Newest model for the Xofig Axxent™ Source	Walter, Autumn
10	AAPMSCM	Commissioning a 2.5 Portal Imaging Beam in the Eclipse Treatment Planning System	Ferris, William



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	11	PTCOG	Developing film dosimetry to benchmark dose distributions in dynamically collimated pencil beam scanning	Smith, Blake
	12	PTCOG	Optimizing spot and trimmer positioning for a dynamic collimation system	Smith, Blake
<b>2018</b>	1	AAPM	Investigation of dual-energy post-processing techniques using twinbeam DECT modality for radiation therapy applications of pancreas adenocarcinoma	DiMaso, Lianna
	2	AAPM	A preliminary sensitivity study for dynamically collimated pencil-beam scanning proton therapy treatments delivered with a DCS	Smith, Blake
	3	AAPM	Evaluation of Methods for Quality Assurance Checks of Ionization Chambers	Walter, Autumn
	4	AAPM	Evaluation of a Megavoltage Calibration Service at the Secondary Standards Level	Walter, Autumn
	5	MRRTS	Spectral characterization of plastic scintillation detector response as a function of magnetic field strength	Simiele, Eric
<b>2017</b>	1	NSS/MIC	Ionization Chambers to Measure Neutron and Gamma-Ray Kerma in a Research Reactor	Radtke, Jeff
<b>2016</b>		CIRMS	Air-kerma strength determination for the bebig model Ir2.A85-2 192Ir source	Smith, Blake
<b>2015</b>		AAPM	Dosimetric consequences of uncorrected rotational setup errors during stereotactic body radiation therapy (SBRT) treatment of pancreatic cancers	DiMaso, Lianna
		AAPM	Therapeutic benefits of collimation in spot scanning proton therapy in the treatment of brain cancer	Smith, Blake
<b>2014</b>	1	AAPM	Development of a Calorimeter for the Measurement of the Power Emitted From LDR Brachytherapy Sources	Malin, Martha
	2	AAPM	Interplay effect in non-gated dynamic treatment delivery of a lung phantom with simulated respiratory motion	Desai, Vimal
	3	AAPM	Fringe Stability and Phase Shift Measurements in a Michelson Interferometer for Optical Calorimetry	Flores-Martinez, Miguel
	4	AAPM	In-phantom detector response in a kilovoltage x-ray beam	Lawless, Michael
	5	AAPM	Experimental verification of a Monte Carlo linear accelerator model using a radiochromic film stack dosimeter	McCaw, Travis
	6	AAPM	Experimental and Monte Carlo characterization of the 1 cm CivaString Pd I03 brachytherapy source	Reed, Joshua
	7	AAPM	Flattening-Filter- Free beam quality correction factor determination using experimental and Monte Carlo methods	Wood, Desai, E. Simiele, Taneja
	8	AAPMSCM	Surface dose effects of linen coverings for breast and chest wall patients	Fagerstrom, Jessica
<b>2013</b>	1	AAPM	Monte Carlo-generated investigations of percolation and single-hit models for GafChromic® EBT-3 radiochromic film response	Rosen, Benjamin



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| 2 | AAPM    | Towards a Spectroscopic Determination of Dose to Water  |
| 3 | NCCAAPM | Characterization of a three-dimensional radiochromic film stack dosimeter for measurements of 6 MV photon beams |

Malin, Martha  
McCaw, Travis