



University of Wisconsin Medical Radiation Research Center



AAPM
ABS
CIRMS
IAEA SMP
IDOS
IBA DIS
NCCAAPM
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
North Central Chapter of the American Association of Physicists in Medicine
World Congress on Brachytherapy
World Congress on Medical Physics (IUPESM)

Presentations

2021	Meeting	Title	Investigator
1	AAPM	A novel 4D dose accumulation algorithm for predicting dose to organs at risk during motion synchronized treatments on Radixact	Ferris, William
2	AAPM	Establishment of a Standard High-Energy X-Ray Beam for Replacement of Cs-137	King, Emily
3	AAPM	Determination of the RBE of the Xofter Axxent source for cervical cancer applications	Walter, Autumn
4	CIRMS	Volume determination of a commercially available ionization chamber	King, Emily
5	CIRMS	Measurement of a new Xofter Axxent source model using an A26 microionization chamber	Walter, Autumn
6	WCB	Dosimeter evaluation for the measurement of radial dose distributions for electronic brachytherapy	Walter, Autumn
2020			
1	CIRMS	Investigations of Well Chamber Altitude Corrections for a Cs-131 Low Energy Brachytherapy Source	Lambeck, Jacob
2	CIRMS	Measurement of modified TG43 Parameters for a new Xofter Axxent Source model using an A26 microionization chamber	Walter, Autumn
2019			
1	AAPM	Iodine quantification in the tumor and healthy tissue of the pancreas and liver from split-filter dect iodine-enhancement images	DiMaso, Lianna
2	AAPM	Treatment time cutter ants: a novel swarm-intelligence approach to reduce trimmer sequencing times	Smith, Blake
3	AAPM	Oxygen inhibition of polymer gel dosimeters through 3D printed plastic containers of various thicknesses	Turner, Leah
4	AAPM	On the Importance of Appropriate Dosimetry Parameters for Electronic Brachytherapy Sources	Walter, Autumn
5	AAPM	Validation of Radixact motion tracking and compensation for 3D respiratory motion	Ferris, William
6	CIRMS	Design of a medium-energy free-air ionization chamber	King, Emily
7	IBA DIS	Radiation Dosimetry Research Status	Culberson, Wes
8	IDOS	On the implementation of the plan-class specific reference field concept using multidimensional clustering of plan features	Desai, Vimal



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9	NCCAAPM	Evaluating an aperture-based approximation to model a dynamic collimation system in pencil beam scanning proton therapy	Nelson, Nick
10	NCCAAPM	On the Importance of Appropriate Dosimetry Parameters for Electronic Brachytherapy Sources	Walter, Autumn
11	NCCAAPM	Investigation of the Feasibility of Implementing a Megavoltage Calibration Service for Ionization Chambers at the Secondary Standards Level	Walter, Autumn
12	NCCAAPM	Small Field Stereotactic Cone Output Factor Determination Using TLD Microcubes in A1SL Virtual Water Probes	Bertinetti, Andrew
13	NCCAAPM	Patient Doses from a 2.5 MV Portal Imaging Beam Calculated Using a Commercial TPS	Ferris, William
14	NCCAAPM	Validation of Radixact motion tracking and compensation for 3D respiratory motion	Ferris, William
15	RSNA	Texture analysis of split-filter DECT virtual monoenergetic images of pancreas and liver tumors and healthy tissue	DiMaso, Lianna

2018

1	AAPM	An Investigation of Patient Plan-Specific Correction Factors for Three Ion Chambers in Collapsed Composite IMRT Treatments Using a PTW MicroDiamond and Monte Carlo Simulations	Desai, Vimal
2	AAPM	The History of Calibration Laboratories: The Transfer from Primary Standards to the Clinic	DeWerd, Larry
3	AAPM	Inter-laboratory Comparison for Surface Dose Rate from a 106Ru Episcleral Plaque Measured with a Convex Windowless Extrapolation Chamber, EBT3 Film, a Scintillation Detector, and Alanine Pellets	Hansen, John
4	AAPM	Deformable Anthropomorphic Abdominal Phantom for the Validation of Deformable Dose Accumulation Algorithms and Intrafractional Motion Management Systems	Matrosic, Charlie
5	AAPM	Monte Carlo methods to simulate secondary neutron dose for dynamically collimated SFUD and IMPT treatments using a Dynamic Collimation System	Smith, Blake
6	AAPM	Direct measurement of the energy spectrum of a 6MV linear accelerator	Taneja, Sameer
7	ABS	Surface Dose Rate from a 106Ru Episcleral Plaque Measured with a Convex Windowless Extrapolation Chamber and EBT3 Film	Hansen, John
8	CIRMS	Dose measurements in radiobiology x-ray irradiators	Viscariello, Natalie
9	IAEA SMP	Medical Physics in the AAPM	Hansen, John
10	NCCAAPM	Predicting secondary neutron radiation during dynamically collimated proton therapy	Smith, Blake
11	WCMP	Instrumentation for patient dosimetry measurements for Radiation Therapy	DeWerd, Larry

2017

1	AAPM	The Use of Large-Volume Ion Chambers in Out-Of-Field Locations for Radiotherapy Beam Scanning	Culberson, Wes
2	AAPM	An Investigation of Patient Plan-Specific Correction Factors for An Exradin A1SL Ion Chamber in IMRT Treatments On a Medical Linear Accelerator	Desai, Vimal



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3	AAPM	Radiation therapy application of a novel split-filter dual-energy ct (DECT) to improve pancreas and liver GTV contrast	DiMaso, Lianna
4	AAPM	Absorbed-Dose Energy Dependence of EBT3 Radiochromic Film Measurements for Ru-106 Eye Plaques	Hansen, John
	AAPM	An Investigation into the Measurement of the Energy Spectrum of a 6MV Linear Accelerator Using a Pulse-Mode Detector	Taneja, Sameer
6	ABS	Windowless extrapolation chamber and radiochromic film measurements of a flat 106Ru eye plaque	Hansen, John
7	CIRMS	On the Impact of the Scattering Angle for Direct Measurement of the Energy Spectrum of a Medical Linear Accelerator	Taneja, Sameer
8	CIRMS	Dose Distribution Measurements of a New Directional Pd-103 Low-dose Rate Brachytherapy Source	Aima, Manik
9	NCCAAPM	Plan-Specific Correction Factors for Small-Volume Ion Chamber Dosimetry in Modulated Treatments on a Varian Trilogy	Desai, Vimal
10	NCCAAPM	Radiation therapy application of a novel split-filter dual-energy ct technique to improve pancreas and liver GTV CNR	DiMaso, Lianna
11	NCCAAPM	Extrapolation chamber measurements of beta-emitting ophthalmic sources	Hansen, John
12	NCCAAPM	A method to simulate secondary neutron dose from a dynamic collimation system during spot scanned proton therapy	Smith, Blake
13	NCCAAPM	TLD Energy response in-phantom for radiobiology studies	Viscariello, Natalie
2016			
1	AAPM	Energy response of thermoluminescent micro-cube dosimeters in water for kilovoltage x-ray beams	DiMaso, Lianna
2		Determining the air-kerma strength for the bebig model Ir2. A85-2 192Ir source	Smith, Blake
2015			
1		Determination of modified TG-43 parameters for the Xofig Axxent electronic brachytherapy source	Simiele, Samantha