

## 9<sup>™</sup> RAYSTATION USER MEETING 2020



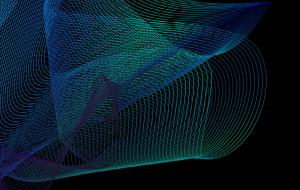
DECEMBER 3-4, 2020 | STARTING AT 9:00 CST

## THURSDAY, DECEMBER 3

09:00 -09:10	Welcome to the 9th RaySearch User Meeting	Marc Mlyn, President of RaySearch Americas			
09:10-09:30	RaySearch Americas update	Marc Mlyn, President of RaySearch Americas; David McPhail, VP of Sales			
09:30-10:00	RayStation 2020 and future work	Emil Ekström, RayStation Chief Functionality Owner, Dayna Bodensteiner, Director of Product Management			
10:00-11:00	RaySearch research update	Kjell Eriksson, Chief Science Officer			
11:00-11:30	RaySearch machine learning update	Fredrik Löfman, Head of Machine Learning			
11:30-12:00	Round table discussion with development, research and machine learning specialist from RaySearch				
12:00-13:00	LUNCH BREAK				
13:00–14:00	Dose accumulation and adaptive RT: Clinical translation, usability and new horizons	Kristy K. Brock, PhD, DABR, FAAPM, Professor- Department of Imaging Physics, Professor-Depart- ment of Radiation Physics, The University of Texas MD Anderson Cancer Center			
	PARALLEL BREAKOUT SESSIONS				
	Adaptive therapy	Scripting			
14:00–14:30	A feasibility study to predict an optimal time for replan based on the daily anatomy changes for head and neck cancer patients  Manju Sharma, PhD, DABR, Assistant Professor Department of Radiation Oncology, University of California San Francisco	A successful transition to RayStation: Building concrete scripting architecture to boost efficiency and automation in the clinic  Aimee Lauzon, M.Sc., MCCPM, Medical Physicist,  CISSS Laval			
14:30-15:00	Surveillance of lung and head and neck radiotherapy using CBCT dose calculation framework Giovanni Lasio PhD, DABR, Associate Professor, University of Maryland School of Medicine	Improving the RayStation experience through scripting and templates Fan Chen, PhD, DABR, Medical Physicist, Swedish Cancer Institute			
15:00-15:15	BREAK				

PARALLEL BREAKOUT SESSIONS				
Proton therapy		Photon therapy planning		
15:15–15:45	Technical advancements to help revolutionize proton therapy planning Martin Janson, Senior Product Manager Proton Therapy RaySearch Laboratories	Robust optimization for modulated breast treatments Xiaoying Liang, PhD, DABR, University of Florida		
15:45–16:15	Improved proton SBRT quality and efficiency with optimized RayStation planning techniques Jun Zhou, PhD, DABR, Lead Physicist Treatment Planning, Emory Proton Therapy Center and Stella Flampouri, PhD, DABR, Senior Physicist, Emory Proton Therapy Center	Single isocenter multiple metastasis brain treatment: The love child of whole brain and SRS Lexie Smith-Raymond, MAdm, BS, RT(R)(T), CMD — Director of Radiation Oncology, Banner University Medical Center Tucson and Angela Locke, BS, RT(T), CMD, Banner University Medical Center Tucson		
16:15–16:45	Spot-scanning proton arc therapy Xuanfeng Ding, PhD, DABR, Assistant Professor Beaumont Health and Oakland University	The dancing cord: Inherent spinal cord motion and its effect on cord dose in spine SBRT with a discussion on robust optimization Patricia Sponseller - MS, CMD, RTT (R)(T), University of Washington		
16:45 –17:15	Automated proton chart check through RayStation scripting Baoshe Zhang, PhD, DABR, Assistant Professor Medical Physics, University of Maryland School of Medicine	Improved method for definition of the external contour in RayStation Don Hancock, BS, CMD, RT(N), The University of Texas MD Anderson		
17:15-17:30	Closing remarks	Marc Mlyn, President of RaySearch Americas		





AGENDA FOR THE

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09:00 -09:10	Welcome back day 2 of the user meeting	Dayna Bodensteiner, Director of Product Management		
09:10-09:30	Brachytherapy	Elin Zambeaux, Brachytherapy Functionality Owner		
09:30-09:50	Multiple metastasis treatment planning - future improvements	Cecilia Battinelli, Researcher		
09:50-10:10	Proton planning with machine learning	Mats Holmström, Machine Learning Engineer		
10:10-10:30	Cyberknife planning	Anna Lundin, RayStation Technical Lead		
10:30-10:45	BREAK			
10:45-11:05	RayIntelligence	Fredrik Löfman, Head of Machine Learning		
11:05–11:25	RayTreatment with Varian TrueBeam	Björn Hårdemark, Deputy CEO RaySearch Laboratories		
11:25–11:45	EPID Dosimetry	Cameron Ditty, Senior Medical Physicist RaySearch Laboratories and Erik Engwall, Head of Physics RaySearch Laboratories		
	Live chat room discussion on the above topics - please join two 15 min sessions			
11:45-12:15	Session 1 - 15 minutes			
	Session 2 - 15 minutes			
12:15-13:30	LUNCH BREAK			
INNOVATIONS IN PLANNING				
13:30-14:00	An open-source script for interactive prevention of mechanical collisions during treatment planning in RayStation	Fernando Hueso Gonzalez, PhD and Kyla Remillard BS, CMD, Massachusetts General Hospital		
14:00–14:30	Clinical use and interrogation of machine learning- based automated treatment planning for prostate cancer	Leigh Conroy, PhD, Assistant Professor, Department of Radiation Oncology, Medical Physicist, Department of Medical Physics, Radiation Medicine Program, Princess Margaret Cancer Centre		

RAYCARE				
14:30-15:00	RayCare 4B and RayCare Flow	Misty Lehman-Davis, CMD, BS RayCare Product Manager RaySearch Americas		
15:00-15:15	BREAK			
PARALLEL BREAKOUT SESSIONS				
	Physics/Commissioning	Photon Therapy Planning - Dosimetry		
15:15–15:45	Assessment and improvements of MLC models based on synchronous and asynchronous sweeping gap test Jordi Saez, Department of Radiation Oncology, Hospital Clinic de Barcelona, and Victor Hernandez, Department of Medical Physics, Hospital Universitari Sant Joan de Reus	Advanced planning for chordoma: Top ranked 2020 plan challenge winners  Peter Treon, CMD, Rhode Island Hospital;  Megan Rodrigues, BS, CMD, Willis Knighton Cancer  Center; James Henry, CMD, Willis Knighton Cancer  Center		
15:45–16:15	From cosmic rays to casinos: Transitioning to RayStation Monte Carlo electrons Kent Gifford, PhD, The University of Texas MD Anderson Cancer Center			
16:15–16:45	Unlocking a closed system: Dosimetric commissioning of a ring gantry linear accelerator in a multi-vendor environment  Vladimir Feygelman, PhD, Moffitt Cancer  Center and Research Institute	Post axillary boost in 2020 - Why settle for suboptimal coverage? W. Neil Duggar, PhD, DABR, Lead Clinical Physicist, University of Mississippi Medical Center		
16:45-17:00	Closing remarks	Marc Mlyn, President of RaySearch Americas		
17:00-TBD	RaySearch Happy Hour			



