

# AGENDA FOR THE EUROPEAN RAYSTATION USER MEETING

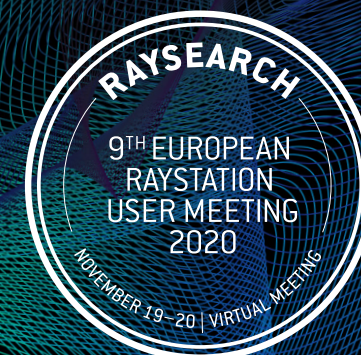
NOVEMBER 19–20, 2020 | STARTING AT 09:00 CET



## THURSDAY, NOVEMBER 19

09:00 – 09:10	Welcome to the 9th RayStation User Meeting	<i>Peter Kemlin, Director of Sales and Marketing</i>
09:10 – 09:45	RayStation 2020 and beyond	<i>Emil Ekström, RayStation Chief Functionality Owner; Bonnie Godyn, Clinical Specialist</i>
09:45 – 10:45	RaySearch research update	<i>Kjell Eriksson, Chief Science Officer</i>
10:45 – 11:15	RaySearch machine learning update	<i>Fredrik Löfman, Head of Machine Learning</i>
11:15 – 11:30	RayStation licencing	<i>Peter Kemlin, Director of Sales and Marketing</i>
11:30 – 12:00	Round table discussion between RayStation users and development, research and machine learning specialists from RaySearch	
12:00 – 13:00	<b>LUNCH BREAK</b>	
	PARALLEL BREAKOUT SESSIONS	
	Proton therapy	Photon therapy planning
13:00 – 13:25	Using Siemens DECT (SPR) images for dose computation in RayStation. <i>Nils Peters, MSc, PhD student, OncoRay - Center for Radiation Research in Oncology</i>	Robust optimisation for SABR lung planning. <i>Zoe Walker, Clinical Scientist, University Hospital Coventry</i>
13:25 – 13:45	Commissioning a synchrotron-based proton therapy system in RayStation. <i>Juan Diego Azcona, Director of Proton Therapy Physics, Clínica Universidad de Navarra</i>	Enabling remote planning with RayStation in a hurry: A response to the COVID-19 pandemic. <i>Dualta McQuaid, Clinical Physicist, Royal Marsden NHS Foundation Trust</i>
13:45 – 14:05	Assessing the robustness tool in protontherapy. <i>Maëva Vangvichith, Medical Physicist, Nice - Institut Méditerranéen de Protonthérapie</i>	Scripting with RayStation - From simulation to patient QA. <i>Marie-Hélène Mercier, Medical Physicist, ICB Chalon-sur-Saône</i>
14:05 – 14:25	Clinical validation of GPU Monte Carlo proton dose calculation algorithm. <i>Francesco Fracchiolla, Medical Physicist, Trento - Protonterapia</i>	Commissioning and validation of Ray Station Monte Carlo photon dose engine V1.3 at University Hospital Heidelberg. <i>Bernhard Rhein, PhD, Medical Physicist, Heidelberg University Hospital</i>
14:25 – 14:40	Live Q&A	Live Q&A
14:40 – 15:00	<b>BREAK</b>	

	PARALLEL BREAKOUT SESSIONS	
	Adaptive and deformable	Innovation in planning
15:00 – 15:25	Clinical evaluation of automated adaptive proton therapy workflow using contour propagation and dose evaluation. <i>Vicki T. Taasti, Medical Physicist, Maastr</i>	Clinical experience of MR-only radiation therapy for prostate cancer. <i>Jonathan Wyatt, PhD Fellow, Clinical Scientist, Northern Centre for Cancer Care, Newcastle upon Tyne Hospitals NHS Foundation Trust</i>
15:25 – 15:45	Commissioning of CBCT-based dose calculation in RayStation. <i>Rune Slot Thing, Medical Physicist, PhD, Department of Medical Physics, Vejle Hospital</i>	Radiation treatment uncertainties: Robust evaluation and optimization. <i>Roel G.J. Kierkels, Medical Physicist, PhD, UMCG</i>
15:45 – 16:05	Deformable image registration and EQD2 plan optimization for reirradiation of pelvis and brain (STRIDeR project). <i>Ane Appelt, PhD, Associate Professor, Medical Physicist, Leeds Cancer Centre</i>	Halcyon planning with RayStation. <i>Thomas Lacormerie, Head of Medical Physics, Centre Oscar Lambret</i>
16:05 – 16:20	Live Q&A	Live Q&A
16:20 – 16:30	<b>BREAK</b>	
16:30 – 17:00	Proton Therapy: Going live with RaySearch	<i>Prof. Tom Depuydt, Head of Physics; Anneleen Goedgebeur, Medical physicist; Jan Verstraete, Quality Manager; Tim Van Deyck, IT-coordinator, Clinic University Hospital Leuven</i>





## FRIDAY, NOVEMBER 20

09:00 – 09:10	RaySearch development update	<i>Peter Kemlin, Director of Sales and Marketing; Bonnie Godyn Clinical Specialist</i>
09:10–09:30	Brachytherapy	<i>Elin Zambeaux, Brachytherapy Functionality Owner</i>
09:30–09:50	Multi met planning - future improvements	<i>Cecilia Battinelli, Researcher</i>
09:50–10:10	Proton planning with Machine Learning	<i>Mats Holmström, Machine Learning Engineer</i>
10:10–10:30	Cyberknife planning	<i>Anna Lundin, RayStation Technical Lead</i>
10:30–10:50	Ray Intelligence	<i>Fredrik Löfman, Head of Machine Learning</i>
10:50–11:10	RayTreat with Varian TrueBeam	<i>Rickard Holmberg, RayCommand Chief Functionality Owner</i>
11:10–11:30	RayCare and RayCare Flow	<i>Eeva-Liisa Karjalainen, RayCare Chief Functionality Owner</i>
11:30–12:00	Live discussions in chat rooms on the above topics	
12:00–13:00	<b>LUNCH BREAK</b>	
	<b>PARALLEL BREAKOUT SESSIONS</b>	
	Photon and electron beam modeling	Planning like a pro – Dosimetry
13:00–13:25	Assessment and improvement of MLC models based on synchronous and asynchronous sweeping gap tests. <i>Jordi Saez, Department of Radiation Oncology, Hospital Clínic de Barcelona, and Victor Hernandez, Department of Medical Physics, Hospital Universitari Sant Joan de Reus</i>	IMC Planning at Worcestershire Oncology Centre. <i>Heather Brown, Lead Dosimetrist, Worcestershire Oncology Centre</i>
13:25–13:45	Validation and clinical implementation of the Raystation Electron Monte Carlo Code. <i>Geert Pittomvils, Medical Physicist, PhD, Ghent University Hospital</i>	Proton planning experiences with the Mevion Hyperscan. <i>Rik Emmah, Radiation Therapy Technologist, Maastru</i>
13:45–14:05	RayStation at the National Physical Laboratory – current and future opportunities for research and development. <i>Mohammad Hussein, PhD, Senior Research Scientist, Medical Radiation Physics, National Physical Laboratory</i>	Abdominal radiation of pediatric patients, challenges in changing volume/cross-section. <i>Morten E. Evensen, Radiation Therapist, Oslo Universitetssykehus</i>
14:05–14:25	Patient Plan Verification of the new O-ring system (Halcyon™): Validation of Raystation versus portal imaging and ionization chamber array. <i>Daniel Nguyen, Medical Physicist, Radiotherapy Center of Mâcon</i>	Challenging plans versus planning challenges. <i>David Stewart, Radiation Therapist, Nelune Comprehensive Cancer Centre</i>
14:25–14:40	Live Q&A	Live Q&A
14:40–15:00	<b>BREAK</b>	

	<b>IMPLEMENTING MACHINE LEARNING SESSION</b>	
15:00–15:20	Clinical implementation and early experience of Deep learning segmentation.	<i>Andreas Johansson, Medical Physicist, Mälarsjukhuset</i>
15:20–15:40	Clinical implementation and validation of deep learning segmentation in RayStation.	<i>Michael G. Nix, PhD, Medical Physicist, Leeds Cancer Centre</i>
15:40–16:00	Automatic planning VMAT and robust IMPT in head and neck cancer patients.	<i>Erik W. Korevaar, PhD, Medical Physicist, UMCG</i>
16:00–16:20	Live Q&A	

**ADVANCING  
CANCER  
TREATMENT**

