



AGENDA

November 15–17, 2022 | Online Meeting | 15:00–19:00 CET / 9AM–1PM EST

DAY 1 TUESDAY, NOVEMBER 15		
15:00 – 15:15	Welcome to the Global RayStation online user meeting	<i>Peter Kemlin, Director of sales and marketing; Dayna Bodensteiner, Director of product management, RSA</i>
15:15 – 15:45	RaySearch update	<i>Johan Löf, President and CEO</i>
15:45 – 16:15	RayStation product update	<i>Emil Ekström, RayStation Chief functionality owner; Dayna Bodensteiner, Director of product management, RSA</i>
16:15 – 16:30	BREAK	
16:30 – 17:30	Research update	<i>Kjell Eriksson, Chief science officer</i>
17:30 – 17:45	BREAK	
17:45 – 18:45	PARALLEL BREAKOUT SESSIONS	
	Photon and ion planning	Advanced techniques and future work
17:45 – 18:05	Simulation of heartbeat cardiac motion to estimate intra-fraction dosimetric variation in RT treatments – <i>Nicola Maffei, Medical Physicist, Universitaria di Modena, Italy</i>	Deep learning cycle-GAN MRI-based synthetic-CT generation for pelvis, brain and head and neck cancer sites – <i>Dr. David Bird, Clinical Scientist, RT Physicist, Leeds Cancer Centre, UK</i>
18:05 – 18:25	Small intra-skull tumor treatments with an active pencil beam scanning proton therapy – <i>Daniel Maneval, PhD, Medical Physicist, Centre Antoine Lacassagne, France</i>	Clinical application of synthetic CTs (sCTs) for adaptive proton therapy in lung cancer patients – <i>Vicki Trier Taasti, Medical Physicist, Maastricht, Netherlands</i>
18:25 – 18:45	Weekly CBCT-based plan recalculation – <i>Rune S. Thing, Medical Physicist, PhD, Vejle Sygehus, Denmark</i>	Modeling of the Unity MR-Linac in RayStation – <i>Roel Kierkels, PhD, Medical Physicist, Radiotherapiegroup, site Deventer, Netherlands</i>
18:45 – 19:00	Questions and goodbye	

DAY 2 | WEDNESDAY, NOVEMBER 16

15:00 – 15:15	Welcome	<i>Peter Kemlin, Director of sales and marketing; Dayna Bodensteiner, Director of product management, RSA</i>
15:15 – 16:15	Interactive sessions – breakout rooms with our RaySearch staff	
	1. Photon optimization – <i>Albin Fredriksson, Björn Andersson, Erik Sterner, David Holst</i>	
	2. Ion planning – <i>Lars Glimelius, Victor Mikhalev, Martin Janson, Erik Traneus</i>	
	3. Scripting – <i>Grietsje Schregardus-Abma, Tibor Marusic</i>	
	4. Machine learning – <i>Adnan Hossain, Elin Samuelsson</i>	
	5. RayIntelligence – <i>Karl Berggren, Giorgio Ruffa, Aniko Balazs</i>	
	6. Deformable registration and adaptive planning – <i>Stina Svensson, Anna Lundin, Staffan Beck</i>	
	7. Physics – <i>Agnes Angerud, Elanor Bäckman</i>	
	8. Brachy – <i>Erik Setterquist, Miriam Skarin, Tom Niesse, Emil Zhao</i>	
	9. RayCare – <i>Eeva-Liisa Karjalainen, Misty Lehman-Davis, Fredrik Engbrant, Bie De Ost</i>	
16:15 – 16:30	BREAK	
16:30 – 17:00	Online adaptive with RaySearch products	<i>Anna Lundin, Technical product manager RayStation</i>
17:00 – 18:00	PARALELL BREAKOUT SESSIONS	
	Efficiency and AI	Planning like a pro with dosimetrists
17:00 – 17:20	Comparison of two DL segmentation models for loco-regional breast cancer – <i>Nienke Bakx, Medical Engineer, Catharina Ziekenhuis, Netherlands</i>	Comparison of in-house and RayStation robust optimization methods for skin-flash in breast and sarcomacases – <i>Dominique Martin, Hôpital Maisonneuve-Rosemont, Canada</i>
17:20 – 17:40	Lexicographic optimization-based algorithm for automated planning with high performance computer – <i>Victoria Gutierrez, Medical Physicist, University of Modena, Italy</i>	Clinical application of Co-optimization for bilateral breast treatment: A Case Study – <i>Kristin Krudys, CMD, Univ of Maryland, US</i>
17:40 – 18:00	Adaptive replanning with dose accumulation for prostate hypo-fractionated radiotherapy using auto-planning on CBCT – <i>Tony Tadic, PhD, MCCPM, Princess Margaret Cancer Centre, Toronto Ontario; Maryam Golshan, Medical Physics Resident, PMCC, UHN</i>	Robust planification for craniospinal axis treatments on a Elekta linac – <i>Ariane Razavi, Cliniques Universitaires Saint-Luc, Belgium</i>
18:00 – 18:15	BREAK	
18:15 – 18:55	Machine learning and RayIntelligence update	<i>Fredrik Löfman Director of machine learning</i>
18:55 – 19:00	Questions and goodbye	



DAY 3 | THURSDAY, NOVEMBER 17

15:00 – 15:15	Welcome	<i>Peter Kemlin, Director of sales and marketing; Dayna Bodensteiner, Director of product management, RaySearch Americas</i>
15:15 – 15:45	Proton and light ion update	<i>Lars Glimelius, Senior product manager light ions</i>
15:45 – 16:15	RayCare update	<i>Eeva-Liisa Karjalainen, RayCare Chief functionality owner; Misty Lehman-Davis, Product manager RayCare, RSA</i>
16:15 – 16:30	BREAK	
16:30 – 17:00	The RayWorld implementation in a busy dual particle facility	<i>Piotr Andrzejewski, MEng MBA PhD, MedAustron, Austria</i>
17:00 – 17:30	Automated treatment planning: clinical robustness and applications in adaptive therapy	<i>Aly Khalifa, B.Eng., PhD Student, University of Toronto, PMH, Canada</i>
17:30 – 17:45	BREAK	
17:45 – 18:15	Automation in treatment planning workflow using RayCare and RayStation	<i>Geert De Kerf, Medical Physicist, Iridium Netwerk, Belgium</i>
18:15 – 18:45	Improving workflows and efficiency; newest tools in RayStation	<i>Anna Lundin, Technical product manager RayStation; Dayna Bodensteiner, Director of product management, RSA; Kate Robertson, Clinical specialist</i>
18:45 – 19:00	Questions and goodbye	

MEET OUR RAYSEARCH PRESENTERS



Johan Löf
President and CEO



Peter Kemlin
Director of sales and
marketing



Dayna Bodensteiner
Director of product
management, RSA



Emil Ekström
Chief functionality owner
RayStation



Kjell Eriksson
Chief science officer



Lars Glimelius
Senior product manager
light ions



Fredrik Löfman
Director of machine learning



Anna Lundin
Technical product manager
RayStation



Eeva-Liisa Karjalainen
RayCare Chief functionality
owner



Misty Lehman-Davis
Product manager
RayCare, RSA



Kate Robertson,
Clinical specialist

**ADVANCING
CANCER
TREATMENT**

