

SCIENTIFIC PROGRAMME

Faculty

Course Directors:

Andrew Hope
Jan-Jakob Sonke

Faculty

Karin Goudschaal Uwe Oelfke Gitte Persson
Helen McNair Parag Parikh Marcel van Herk

Pre-Course Recorded Lectures

Title	Length
Technology: Planar imaging, MV and kV	45 min
Technology: kV-CBCT, in-room kV CT + MV-CT	45 min

In-Person Live Course Sessions

Day 1

Time	Topic: Introduction to IGRT and adaptive	Speaker
08:30 - 08:40	Welcome and General Introduction	Hope & Sonke
08:40 - 09:00	IGART – Clinical Rationale	Persson
09:00 - 09:30	IGART – Physics Perspective	Oelfke
09:30 - 10:00	RTT Role in IGART	McNair
10:00 - 10:30	<i>Coffee break</i>	
10:30 - 11:15	Delineation Uncertainty	Persson
11:15 - 12:00	Uncertainties in Image Registration and Contour Propagation	Sonke
12:00 - 12:45	Clinical Prostate	Parikh
12:45 - 13:45	<i>Lunch</i>	
Time	Topic: IGRT strategies in clinical practice	Speaker
13:45 - 14:30	Prostate: Registration Issues	Alexander
14:30 - 15:15	Technology: MRI, Surface Based	Oelfke
15:15 - 15:45	<i>Coffee break</i>	
15:45 - 16:40	Errors and Margins	van Herk
16:40 - 17:25	Correction Strategies: Offline, Online and Adaptive	Sonke

Day 2

Time	Topic: Targets with respiratory motion	Speaker
08:30 - 09:30	Imaging in the 4 th Dimension	Sonke
09:30 - 10:00	Technology: 4D-IGRT	Oelfke
10:00 - 10:30	MR-Guided Radiotherapy: IGRT Practice	Parikh
10:30 - 11:00	<i>Coffee break</i>	
11:00 - 12:00	Registration Issues Lung/Breast	Goudschaal
12:00 - 14:40	Radiosurgery and SBRT: from Frame to Frameless	Hope
12:40 - 13:40	<i>Lunch</i>	
13:40 - 15:10	Clinical Lung/Breast	Persson & Sonke
15:10 - 15:40	<i>Coffee break</i>	
15:40 - 17:10	Break- out sessions (3) <ul style="list-style-type: none"> · Physicists: Discussion of Cases \ Questions from Participants · RTT: 4D including breath hold · Clinicians: Discussion of Cases \ Questions from Participants 	

Day 3

Time	Topic: IGART strategies in clinical practice	Speaker
09:00 - 09:50	Online Adaptive Radiation (Concepts)	van Herk
09:50 - 10:50	Cone Beam Based Online Adaptive Radiation	Goudschaal
10:50 - 11:20	<i>Coffee break</i>	
11:20 - 12:05	Practical Insights into Margins	van Herk
12:05 - 13:05	MR-Guided Radiotherapy: Adaptive Practice	Parikh
13:05 - 14:05	<i>Lunch</i>	
Time	Topic: Focus on adaptation	Speaker
14:05 - 14:50	Registration Issues: Choosing from a Library of Plans	McNair
14:50 - 15:35	Changing RTT Roles with Online Adaptive Radiation	McNair & Parikh
15:35 - 16:05	<i>Coffee break</i>	
16:05 - 17:35	Break- out sessions (3) <ul style="list-style-type: none"> · Clinicians/Physicists: Adaptive Radiotherapy · Clinicians/Physicists: SBRT · Plan Selection/Online Adaptive 	

Day 4

Time	Topic: Focus on adaptation	Speaker
09:00 - 10:30	IGRT/Adaptive for Abdomen and Non-Prostate Pelvic Malignancies	Parikh
10:30 - 11:00	<i>Coffee break</i>	
11:00 - 11:45	Improvements in CBCT Image Quality for Online ART	Oelfke
11:45 - 12:30	IGRT for Head and Neck	Hope & van Herk
12.30 - 13.30	<i>Lunch</i>	
Time	Topic: Perspectives for advanced IGRT/adaptation	Speaker
13:30 - 14:30	AI in IGRT	Hope & Sonke
14:30 - 15:00	IGRT for Novel Treatments: Cardiac Ablation	Hope
15:00 -15:30	<i>Coffee break</i>	
15:30 - 16:15	Online adaptive, MR vs CT-Guided Competition or Complementary	Persson & Parikh
16:15 - 16:45	Exit Exam	All