

SCIENTIFIC PROGRAMME

Course Directors

Dimos Baltas

Panagiotis Papagiannis

Teachers

Luc Beaulieu

Nicole Nesvacil

Mark Rivard

Åsa Carlsson Tedgren

DAY 1 – SUNDAY 9 OCTOBER

Time	Lecture	Speaker
09:00 – 09:15	Introduction	D Baltas
09:15 – 09:30	Practical information	A Delmas
09:30 – 10:00	Treatment delivery technologies	M Rivard
10:00 – 10:45	The principles of imaging-based treatment planning	D Baltas
10:45 – 11:15	<i>Coffee break</i>	
3D Imaging and Localisation		Chair: D Baltas
11:15 – 12:00	3D Imaging modalities and techniques	N Nesvacil
12:00 – 12:30	Tissue segmentation and characterisation	AC Tedgren
12:30 – 13:00	QA of 3D imaging	N Nesvacil
13:00 – 14:00	<i>Lunch</i>	
14:00 – 14:45	Catheter/Applicator and source localisation using 3D imaging	N Nesvacil
14:45 – 17:15	Practical session with RTPs and vendors on: Using of CT, MR and U/S Imaging for treatment planning	ELEKTA VARIAN
17:15 – 17:30	Wrap up session	D Baltas

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DAY 2 – MONDAY 10 OCTOBER

Time	Lecture	Speaker
Dose calculation		Chair: L Beaulieu
08:30 – 09:15	Monte Carlo simulation	P Papagiannis
09:15 – 09:45	TG-43 based dosimetry	M Rivard
09:45 – 10:15	Limitations of TG-43 based dosimetry: TG-43 versus the “true” dose distribution	L Beaulieu
10:15 – 10:30	Interactive session with teachers	All faculty
10:30 – 11:00	<i>Coffee break</i>	
11:00 – 11:45	Dosimetry using the Advanced Collapsed cone Engine (ACE)	AC Tedgren
11:45 – 12:30	Dosimetry using a Grid-Based Boltzmann Solver (Acuros)	P Papagiannis
12:30 – 13:00	Interactive session with teachers	All faculty
13:00 – 14:00	<i>Lunch</i>	
Practical Session on Dose Calculation and Commissioning of Dose Calculation Algorithms		Chair: M Rivard
14:00 – 14:30	Introduction on commissioning and evaluation of dose calculation algorithms	L Beaulieu
14:30 – 16:30	Practical session with RTPs and vendors on: dose calculation algorithms	ELEKTA VARIAN
16:30 – 16:45	<i>Coffee break</i>	
16:45 – 17:00	Wrap up session	P Papagiannis

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DAY 3 – TUESDAY 11 OCTOBER

Time	Lecture	Speaker
Optimization and Prescription		Chair: P Papagiannis
08:30 – 09:00	Dose plan evaluation	AC Tedgren
09:00 – 09:45	Prescribing and reporting	N Nesvacil
09:45 – 10:30	Optimisation and inverse planning	D Baltas
10:30 – 11:00	<i>Coffee break</i>	
11:00 – 13:00	Practical session with RTPs and vendors on: Optimization, Prescription and Evaluation	ELEKTA VARIAN
13:00 – 14:00	<i>Lunch</i>	
Experimental methods for dosimetry		Chair: AC Tedgren
14:00 – 14:45	Source strength determination	M. Rivard
14:45 – 15:30	Experimental dosimetry in brachytherapy	P Papagiannis
15:30 – 16:00	<i>Coffee break</i>	
16:00 – 16:45	Treatment delivery verification	D Baltas
16:45 – 17:30	In-vivo dosimetry	L Beaulieu
17:30 – 17:45	Wrap up session	N Nesvacil

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DAY 4 – WEDNESDAY 12 OCTOBER

Time	Lecture	Speaker
Accuracy and Quality Management		Chair: L Beaulieu
09:00 – 09:45	Clinical impact of uncertainties	N Nesvacil
09:45 – 10:30	Quality management	M Rivard
10:30 – 11:00	Hands-on session	
11:00 -11:15	<i>Coffee break</i>	
Companies Presentation		Chair: D Baltas
11:15 – 11:25	ELEKTA	
11:25 – 11:35	VARIAN	
11:35 – 11:45		TBC
Outlook to Expected Technological Advancements		Chair: N Nesvacil
11:45 – 12:30	Future perspectives	L Beaulieu
12:30 – 13:00	Close-up	All faculty