

Schwarzenbruck | Germany 2017

Safety and precision through the whole RT process

Efficient beam scanning & TPS commissioning

Striving for best quality in modern radiation therapy



DAY 1 | BEGIN 09:30

09:30 – 09:45	Welcome & Presentation ICC	Dr. Lutz Müller
09:45 – 10:30	Physics of Dosimetry – a Refresher	Dr. Lutz Müller
10:30 – 10:45	Coffee Break	
10:45 – 11:15	Small Field Dosimetry	Dr. Lutz Müller
11:15 – 11:30	Flattening Filter Free Dosimetry	Dr. Lutz Müller
11:30 – 12:30	Practical Exercise: Small Fields	Dr. Lutz Müller
12:30 – 13:15	Practical Exercise: FFFree	Dr. Lutz Müller
13:15 – 14:00	Lunch	
14:00 – 14:30	myQA: Software Overview	Sara La Civita
14:30 – 15:00	Hardware & Accessories	Sara La Civita
15:00 – 15:30	Coffee Break	
15:30 – 16:00	myQA platform and Cockpit pt. I	Sara La Civita
16:00 – 17:00	myQA platform and Cockpit pt. II	Sara La Civita
17:00	End of day 1	

DAY 2 | BEGIN 09:00

09:00 – 10:30	Protocol compliant machine QA	Sara La Civita
10:30 – 11:00	Coffee break	
11:00 – 12:00	Machine QA hands-on	Sara La Civita
12:15 – 13:00	Lunch	
13:00 – 14:00	2D patient QA	Sara La Civita & Dr. Lutz Müller
14:00 – 15:00	Introduction to 3D patient QA - Compass	Dr. Lutz Müller
15:00 – 15:30	Coffee break	
15:30 – 17:00	COMPASS Hands-on	Dr. Lutz Müller
17:00	End of day 2	

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DAY 3 | BEGIN 09:00

09:00 – 09:15	Introduction of Hospital Bayreuth	Mathias Dierl
09:15 – 10:30	Clinical experience with COMPASS at Hospital Bayreuth	Mathias Dierl
10:30 – 11:00	Open Discussion and Coffee break	Mathias Dierl
Efficient beam scanning & TPS Commissioning		
11:00 – 11:45	Principles and equipment-set-up	Mark Deweese
	1. Introduction	Mark Deweese
11:45 – 12:30	2. Course organization, take home materials	Mark Deweese
12:30 – 13:15	3. Queue description	Mark Deweese
13:15 – 14:00	Lunch	
14:00 – 14:45	4. Initial system review	Mark Deweese
14:45 – 17:00	5. Geometric tank setup & preliminary scanning	Mark Deweese
17:00	End of day 3	

DAY 4 | BEGIN 09:00

9:00 - 12:15 (Coffee Break: 10:30-10:45)	Data Capture	Mark Deweese
	Photons Scanning with CC13	Mark Deweese
12:15 - 13:00	Lunch	
13:00 - 15:15	Electrons Scanning with CC13	Mark Deweese
	1.PDI	Mark Deweese
	2.Scatter	Mark Deweese
	3.Profiles	Mark Deweese
15:15 - 15:30	Coffee Break	
15:30 – 17:00	Small Photon Fields Scanning with SRS Diode Detector	Mark Deweese
	1.PDD	Mark Deweese
	2.Profiles	Mark Deweese
	3.Scatter	Mark Deweese
	4.Photon Transmission Measurements (Farmer Chamber)	Mark Deweese
17:00	End of Day 4	

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DAY 5| Begin 09:00

9:00 – 10:30	Special Cases and Data Processing	Mark Deweese
	High Intensity Modes FFF	Mark Deweese
	1.Theoretical Concerns	Mark Deweese
	2.Practical Matters	Mark Deweese
10:30 – 10:45	Coffee Break	
10:45 – 12:15	Data Handling Post Collection	Mark Deweese
	1.Smoothing & Renormalization	Mark Deweese
	2.Shift for Effective Point of Measurement (PDD)	Mark Deweese
	3.Center and Symmetrization (profiles)	Mark Deweese
	4.Scatter Data	Mark Deweese
	a. Small field data normalized to 5x5 of standard field	Mark Deweese
b. Curve fitting	Mark Deweese	
12:15 – 12:45	Lunch	
12:45 – 14:15	Alternative instruments – LDA, micro chamber, etc.	Mark Deweese
14:15 – 14:30	Wrap up	Mark Deweese
14:30	End of Training	



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