PROGRAM WINTER SCHOOL 2020

DAY	TIME	TOPIC	OVERALL TOPIC	SPEAKER	CHAIRMAN
Sunday, January 19th	17:00-19:00	Registration			
	18:00-21:00	Welcome Apéro - Fingerfood and Drinks			
	09:00-09:30	Welcome (Introduction of faculty, logistics etc.)	Basic Sciences	D. Weber, T. Lomax	T. Lomax
	09:30-10:00	A short historical overview of proton therapy		D. Weber	
	10:00-10:30	Basic physics of proton radiation		M. Schippers	D. Weber
	10:30-11:00	Coffee break			
	11:00-11:45	Basic radiation biology of photons and protons		M. Pruschy	
Monday,	11:45-12:30	Proton therapy for CNS adult tumors		D. Weber	T. Lomax
January 20th	12:30-14:00	Lunch			
	14:00-14:45	Accelerators and beam production techniques for proton therapy	Clinical outcomes I	M. Schippers	B. Bachtiary
	14:45-15:30	Tumors of the skull base and spine chordoma and chondrosarcoma		R. Malyapa	
	15:30-16:00	Coffee break			
	16:00-16:45	Advancing proton therapy in lung cancer: Beyond proton bragg peak		J.Y. Chang	R. Malyapa
	16:45-17:30	GI and proton therapy		P. Fossati	
	18.00	Dinner at Parkhotel for participants			
	18.00	Dinner for faculty members only - Meeting point at 18.00 in front of the Parkhotel			

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	09:00-09:45	Active scanning beam 1: Modulating delivery		D. Meer	T. Lomax
	09:45-10:15	Active scanning beam 2: Controlling delivery		M. Grossmann	
	10:15-10:45	Coffee break			
	10:45-11:30	Active scanning beam 3: Checking delivery/dosimetry		S. Safai	
	11:30-12:15	Proton therapy workflow	Treatment Planning	J. Hrbacek	
	12:15-13:45	Lunch			
Tuesday, January 21st	13:45-14:45	Treatment planning for pencil beam scanning and IMPT	Treatment Planning	T. Lomax	H. Paganetti
	14:45-15:30	Delivery uncertainties and their consequences		F. Albertini	
	15:30-16:00	Coffee break			
	16:00-16:45	Motion / motion mitigation		A. Knopf	
	16:45-17:15	Ocular proton therapy		J. Hrbacek	
	17.45	Bus to social event place - Meeting point in front of the Parkhotel			
	18:15-22:00	Social event			

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	08.45	Day at PSI: Departure to Paul Scherrer Institut - Meeting point in front of the Parkhotel				
	09:15-10:00	How significant are RBE variations in proton therapy?	Biology	H. Paganetti	M. Schippers	
	10:00-10:30	Second malignancies		U. Schneider		
	10:30-11:00	Coffee break	4 seminars, about 10 students each:			
	11:15-12:15	Workshop 1	Clinical Case Presentation	R. Malyapa, D. Leiser, N. Bizzocchi		
	12:15-13:15	Workshop 2	2. Treatment planning	T. Lomax		
Wednesday, January 22nd	13.30-14:30	Lunch at "Auditorium"				
	14:45-15:45	Workshop 3	3. Treatment QA and Clinical Issues	A. Bolsi, S. Safai		
	15:45-16:45	Workshop 4	4. Delivery hardware	D. Meer, C. Bula		
	16:45-17:15	Coffee break at "Time Out"				
	17:15-18:15	Site tour				
	18:30	Departure to Parkhotel, PSI gate west				
	19:00	Dinner at Parkhotel				

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	08:30-09:15	Pencil beam scanning proton therapy for tumors of head & neck cancers involving the skull base	Clinical outcomes II	R. Malyapa	B. Bachtiary
	09:15-10:00	Proton therapy for pediatric & AYA patients		A. Mahajan	
	10:00-10:30	Coffee break			
	10:30-11:15	Validation methodologies for the clinical benefit of proton therapy	Clinical operation	H. Langendijk	
	11:15-12:00	Commissioning a new facility: Specifications		H. Nyström	
	12:00-13:15	Lunch (plus group picture)			
Thursday, January 23rd	13:30-14:15	Commissioning a new facility: Clinical	Clinical operation & innovations	J. Rottmann	M. Schippers
	14:15-15:00	Technological innovation: Delivery		D. Meer	
	15:00-15:30	Coffee break			
	15:30-16:15	Technological innovation: Imaging	Innovations	G. Fattori	D. Meer
	16:15-16:45	Protons versus "the competition"		T. Lomax	
	16:45-17:00	Closing remarks		T. Lomax	

Friday, January 24th 07:30 - 16:00 Skiing day optional