

NPL PPRIG Proton Therapy Workshop 2014

DAY 1: 12th March

9:30 AM	Arrival, registration & coffee	
10:15 AM	Welcome & setting the scene	Russell Thomas
----- <i>Session 1</i> -----		
10:30 AM	Invited: Relative & absolute dosimetry of proton beams	Dr Hugo Palmans
11:00 AM	Proffered: Dosimetry and radiobiology research on the Birmingham MC40 cyclotron	Prof Stuart Green
11:15 AM	Proffered: Glass bead dosimetry	Shakar Jafari
11:30 AM	Proffered: Microdosimetry	Dr Mike Merchant
----- <i>Session 2</i> -----		
11:45 AM	Invited: Detector instrumentation	Prof Ken Peach
12:15 PM	Proffered: Characterising the NPL graphite calorimeter in scanned and pulsed proton beams	Lauren Petrie
12:30 PM	Proffered: Comparison of water and graphite calorimetry	Dr Séverine Rossomme
12:45 PM	Proffered: TBC	
1:00 PM	Lunch & poster session	
----- <i>Session 3</i> -----		
2:00 PM	Invited: QA & delivery verification	Dr Richard Amos
2:30 PM	Proffered: Cerenkov light production during proton therapy: simulation and experiment	Yusuf Helo
2:45 PM	Proffered: Developing an Accurate Beam Model for a Proton Therapy Spot Scanning Monte-Carlo Verification System	Dr Jenny Richardson
3:00 PM	Proffered: Water & tissue equivalent phantom materials for clinical proton beam dosimetry	Ana Monica Lourenco
3:15 PM	Coffee	
----- <i>Session 4</i> -----		
3:30 PM	Invited: Proton imaging	Prof Phil Evans
4:00 PM	Proffered: Proton-counting imaging for proton radiotherapy using CMOS APS detectors	Dr Gavin Poludniowski

4:15 PM	Proffered: Proton Gantry Mounted CBCT Development at Massachusetts General Hospital	Prof Brian Winey
4:30 PM	Proffered: Investigation of dual energy CT tissue characterization methods for particle beam dose calculation	Dr Hugo Bouchard
4:45 PM	Discussion led by Prof Stuart Green & Prof Gary Royle	
5:30 PM	End of 1st day	

DAY 2: 13th March

-----Session 5-----

9:00 AM	Invited: Treatment Planning	Uwe Oelfke
9:30 AM	Proffered: Effects of Patient Setup Uncertainty on Proton SRS Treatment Planning	Prof Brian Winey
9:45 AM	Proffered: Incorporating and managing range uncertainties in proton beam therapy	Stacey McGowan
10:00 AM	Proffered: Dose remapping and summation for head and neck adaptive	Catarina Veiga

-----Session 6-----

10:15 AM	Invited: Monte Carlo for Proton Therapy Physics	Prof Harald Paganetti
10:45 AM	Proffered: Collimation of spot scanned proton therapy beams to sharpen the lateral edge of uniform dose volumes	Dr Frances Charlwood
11:00 AM	Proffered: Monte Carlo for PBT	David Shipley
11:15 AM	Coffee	

-----Session 7-----

11:30 AM	Invited: Radiobiology	Prof Marco Durante
12:00 PM	Proffered: Radiobiology at University of Surrey	Dr Charlie Jeynes
12:15 PM	Proffered: RBE variation along monoenergetic and modulated Bragg peaks of a 62 MeV therapeutic proton beams	Dr Pankaj Chaudhary
12:30 PM	Proffered: Developing a fluorescence microscopy method of cell cycle phase determination, compatible with targeted irradiation protocols	Miriam Barry
12:45 PM	Proffered: Radiosensitisation by nanoparticles in Proton therapy	Reem Ahmad
1:00 PM	Lunch & poster session	
2:00 PM	Discussion led by Dr Ranald Mackay	
3:00 PM	End of workshop	