

MONDAY, 9 MAY 2011

	PH	PH	RTT
08:00 – 08:40 Teaching Lecture	Image registration in radiotherapy Speaker: G. Rizzo (IT)	Advances in reference dosimetry - where do we go next? Speaker: S. Duane (UK)	Impact of 4DRT and RTT's role State of ART on 4DRT – The physicist point of view J. Cuijpers (PH) State of ART on 4DRT – The RTT point of view H. McNair (RTT)
08:45 – 10:00 Symposia	Functional Imaging for tumour and normal tissue characterization Functional MR imaging for delineation and characterization of prostate tumors G. Groenendaal (NL) Functional imaging with MRI for normal tissue response imaging Y. Cao (USA) Imaging of residual disease in NSCLC: Towards dose painting by volumes H. Aerts (NL)	Novel dosimetry methods 3D dosimetry systems - Gels, EPIDs and others M. Duchateau (BE) Online luminescence dosimetry CE Andersen (DK) Lithium formate EPR dosimetry for dosimetry verifications in radiotherapy S. Olsson (SE)	From conventional to advance practice on miscellaneous treatments Current status on total skin electron irradiation S. Hynds (UK) Immobilisation methods in sarcoma treatments C. Dickie (CA) An Overview of CSA RT; past, present and future developments H. Taylor (UK)
10:00 – 10:30	Coffee break		
10:30 – 11:45	Proffered Papers	Proffered Papers	Proffered Papers
11:45– 13:00	Anniversary Plenary Lecture Honorary Physicist Award Lecture		
13:00 – 14:45	Lunch, Satellite Symposia, Poster Viewing		
14:45 – 16:15 Symposia	Intra-fraction challenges – Equipment New technologies for the management of organ motion D. Verellen (BE) Navigation for intra-fraction motion detection B. Raaymakers (NL) Marker-based and marker-less navigation in Cyberknife Radiosurgery A. Schweikard (DE)	New developments and innovative approaches Pre-clinical assessment of radiation response: Technology and results from a small animal irradiation facility John Wong (USA) Intensity Modulated CT D. Jaffray (CA) Phase contrast imaging: towards clinical application A. Bravin (FR)	Joint with Physics Safety in radiation therapy International incident reporting: lessons from ROSIS J. Cunningham (IE) Preventing Accidental Exposures from New External Beam Radiation Therapy Technologies (ICRP report) O. Holmberg (AT) The role of education and training in providing safe radiotherapy M. do Carmo Lopes (PT)
16:15 – 16:45	Coffee break		
16:45 – 18:00 Proffered Papers	Proffered Papers	Proffered Papers	Proffered Papers
18:00 – 19:30	Poster Reception		

TUESDAY, 10 MAY 2011

	PH	PH	RTT
08:00 – 08:40 Teaching Lecture	Volumetric imaging: Task Group I Speaker : V. Khoo (UK)	A critical overview of arc therapy techniques Speaker: T. Bortfeld (USA)	Image-guided adaptive Radiation Therapy – more than a verification tool Speaker: J.J. Sonke (NL)
08:45 – 10:00 Symposia	Intra-fraction challenges – Prediction models Management of breathing motion through multileaf collimator tracking A. Krauss (DE) Yet another approach to pursue a moving tumor: the gimbaled linear accelerator system T. Depuydt (BE) Robotic linac M. Hoogeman (NL)	QA for rotational therapy QA for Tomotherapy, proposals of the Task Group 148 of the AAPM S. Vynckier (BE) (on behalf of TG148) EPID-based quality assurance for volumetric modulated arc therapy. L. Hoffmann (DK) Specific QA issues for Tomotherapy: introduction of new QA tools V. Althof (NL) QA for Volumetric-modulated arc therapy at the NKI-AVL A. Mans (NL)	IMRT planning and verification Does inverse planned intensity modulation in breast radiotherapy bring any clinical benefit? H. Van der laan (NL) VMAT vs. conventional IMRT techniques in stereotactic body irradiation of lung tumours A. Holt (NL) Guidelines for the verification of IMRT D. Georg (AT)
10:00 – 10:30	Coffee break		
10:30 – 11:45	Highlights of Proffered papers from previous day		Proffered Papers
11:45 – 13:00 Award Lecture	Iridium Award Lecture Varian-Physics, Accuray-Physics and Jack-Fowler Physics award lectures		
13:00 – 14:45	Lunch, Satellite Symposia, Poster Viewing		
14:45 – 16:15 Symposia	Inter-fraction (between fractions) challenges – Organ deformation and motion Image registration and dose warping for inter-fraction deformation K. Brock (CA) Non-rigid dose summation: errors and algorithmic developments J. Siebers (USA) Non-Rigid dose summation with respect to organ deformation between fractions. T. Piotrowski (PL)	Joint with GEC ESTRO Brachytherapy - imaging and dose adaptation Status of MR, CT, and US imaging in brachytherapy G. Lowe (UK) Overview of studies on organ interfraction variations in brachytherapy T. Paulsen Hellebust (NO) Dose adaptation by modern treatment planning concepts including inverse planning P. Trnkova (AT)	Functional imaging and image technology Biological Basis of functional Imaging J. Bussink (NL) Image segmentation/ registration in a multi modality platform J. Lee (BE) Use of PET-CT in RT planning <i>Speaker tbc</i>
16:15 – 16:45	Coffee break		
16:45 – 18:00	Proffered Papers	Proffered Papers	Proffered Papers
18:00 – 21:00	Social evening		

WEDNESDAY, 11 MAY 2011

	PH	PH	RTT	Young
08:00 – 08:40 Teaching Lecture	The tumour microenvironment Speaker: A. Van Der Kogel (NL)	Physical processes in proton and ion therapy Speaker: L. Sihver (SE)	Scope of Practice in the New Core Curriculum for RTs Speaker M. Coffey (IE)	How to get your radiotherapy physics and technology paper published, read and cited? How to convert good material into a good paper in a medical physics journal? S. Webb (UK) How to convert good material into a good paper in clinical journal? D. Thwaites (UK) Discussion
08:45 – 10:00 Symposia	Brachytherapy - dosimetry and dose calculation Image based post dosimetry as a part of advanced QA procedures after seeds implantation in prostate brachytherapy G. Zwierzchowski (PO) Comparisons of conventional and contemporary treatment planning systems in brachytherapy P. Panagiotis (GR) New developments with Monte Carlo calculations for brachytherapy M. Rivard (USA)	Risk assessment and dosimetry in proton and ion therapy Are there risks associated with proton therapy? – Range, dosimetry and RBE A. Lomax (CH) Prospects and challenges of in-vivo range verification in proton therapy A. Knopf (CH) Absolute and relative dosimetry for protons and ions– challenges and solutions H. Palmans (UK)	Joint with Physics Clinical audits in radiotherapy European guidelines - 2009 recommendation by European Commission H. Jarvinen (Helsinki) Clinical comprehensive audits - an IAEA project and current development M. Coffey (IE) Implementation of Clinical Audits in radiotherapy in EU member states in the light of new EC recommendation M. Bogusz-Czerniewicz (PO)	PhD in medical physics, and then...? – some 'in-vivo' experiences The benefits and challenges of an international PhD followed by work in a hospital environment V. Panettieri (UK) The benefits and challenges of having clinical training first then a PhD P. Carrasco (ES) Combining research and clinical work without a formal PhD programme <i>Speaker tbc</i> Solutions for an integrated clinical and research career G. Gagliardi (SE) and C. Clark (UK)
10:00 – 10:30	Coffee break			
10:30 – 11:45 Proffered Papers	Highlights of Proffered papers from previous day		Proffered Papers	Moving Poster Session
11:45 – 12:45	Honorary Members Award lectures			
12:45 – 14:30	Lunch, Satellite Symposia, Poster Viewing			
14:30– 16:00 Symposia	Highlights in ESTRO physics	Normal tissue dose response modeling beyond the QUANTEC project	Improvement of staff and patient environment Healing Environment for Cancer	

		<p>DVH-based parameters and models for toxicity prediction J. Deasy (USA)</p> <p>The influence of organ motion on DVH and NTCP parameters L. Muren (DK)</p> <p>Image-based dose-volume effects prediction C. Fiorino (IT)</p>	<p>Patients A. van den Berg (NL)</p> <p>The art of healing in health care-transforming lives through art D. Breige (UK)</p> <p>Effect of Light and nature view on patients and staff in a radiotherapy department M. Mast (NL)</p>	
16:00 – 16:30	Coffee break			
16:30 – 17:45 Proffered Papers	Proffered Papers	Proffered Papers	Proffered Papers	

THURSDAY, 12 MAY 2011

	PH	PH	RTT
08:00 – 08:40 Teaching Lecture	<p>The current status of Stereotactic Body Radiotherapy</p> <p>Speaker: M. Guckenberger (DE)</p>	<p>Development of procedures for <i>in vivo</i> dosimetry in radiotherapy</p> <p>P. Mayles (UK)</p>	<p>Focus on target volume delineation of the upper GI track</p> <p>PET in target volume delineation and dose planning for oesophageal cancer C. Muijs (NL)</p> <p>PET in target volume delineation and dose planning for pancreatic cancer M. Cattaneo (IT)</p>
08:45 – 10:00 Symposia	<p>Incorporation of molecular and genetic patterns in dose response models</p> <p>Modelling tumour control outcome based on biological imaging response M. Alber (DE)</p> <p>Including molecular and genetic predictors in normal tissue dose-volume modelling T. Rancati (IT)</p> <p>The incorporation of normal tissue functional imaging in dose response studies M. Partridge (UK)</p>	<p>New beam acceleration for proton and ion therapy</p> <p>Compact electromagnetic accelerators and beam deliveries for proton and ion therapy M. Schippers (CH)</p> <p>The Dielectric Wall Accelerator: Independent Evaluation of Project Status [1] J. Alonso (USA)</p> <p>Laser driven accelerators for radiobiology experiment J. Pawelke (DE)</p>	<p>Guidelines and protocols in the radiotherapy department</p> <p>Staffing and equipment of RT centres: comparing the EORTC, ESTRO and Dutch guidelines C. Hurkmans (NL)</p> <p>Use of pre-treatment imaging protocols for motion estimation B. Bak (PL)</p> <p>The impact of rectal and bladder preparation in prostate radiotherapy L. Mullaney (IRL)</p>
10:00 – 10:30	Coffee break		
10:30 – 11:45 Symposia	<p>How to meet the needs for QA in adaptive radiotherapy?</p> <p>Economic burden of QA in advanced radiotherapy Y. Lievens (BE)</p> <p>Replace measurement by calculation. Would it be possible to replace patient specific phantom measurements (prior to IMRT) with software?" J. Olofsson (SE)</p> <p>Patient-specific QA for adaptive radiotherapy W. van Elmpt (NL)</p>	<p>Mobility of medical physicists in the world</p> <p>EFOMP: European approach to support mobility of medical physicists W. van der Putten (IE)</p> <p>AAPM: Standardized approach to support quality and mobility in Medical Physics B. Paliwal (USA)</p> <p>IOMP: Global approach to support mobility of medical physicists M. do Carmo Lopez (PT)</p> <p>Roundtable discussion (30 min)</p>	<p>Improving delivery accuracy by using in-room imaging</p> <p>Cone beam CT for use in daily clinical routine: an update C. Machado (PT)</p> <p>Optimizing setup margins by using On-line/Off- line verification protocols F. Moura (PT)</p> <p>Adaptive treatment with Hi-art tomotherapy for locally advanced head and neck squamous cell carcinoma F. Carruthers (BE)</p>
11:45 – 12:45	<p>Debate: Online transmission in vivo dosimetry renders pre-treatment QA obsolete</p> <p>In favour – S. Nijsten (NL) Against – S. Kry (USA)</p>		