

Program Saturday, October 7, 2006

Time	Event	No	Speaker	Institution	Title	Location	
07:00-08:00	Registration/Continental Breakfast						
08:00-10:00	NASA Particle Research Programs <i>Chair:</i> F. A. Cucinotta	1	Adam Rusek	Brookhaven National Lab		Houston Marriott Hotel Medical Center	
		2	Michael Cornforth	UT Medical Branch Galveston			
		3	Hooshang Nikjoo	USRA (Houston)	Radiation tracks and initial damage		
		4	F. Cucinotta	NASA	Objective of Space Radiation Research		
10:00-10:15	Break						
10:15-12:15	Biophysics Particle Research Programs <i>Chair:</i> E. Blakely	5	Eleanor Blakely	Lawrence Berkeley National Laboratory	Hadron Therapy: Biological Promise and Clinical Perspective		
		6	Leo Gerweck	Massachusetts General Hospital	An Assessment of the RBE of SOPB Protons – Where Do We Stand?		
12:30	Adjourn						

Program Sunday, October 8, 2006

Time	Event	No	Speaker	Institution	Title	Location
07:00-08:00	Registration/Continental Breakfast					
08:00-10:00	Design and Analysis of Clinical Trials <i>Chair:</i> J. D. Cox					Houston Marriott Hotel Medical Center
		7	William Shipley	Massachusetts General Hospital	Clinical Research with Proton Therapy for Cancer of the Prostate	
		8-1	Jim Cox	M. D. Anderson Cancer Center		
		8-2	Jerry Slater	Loma Linda Medical Center	Clinical Trial Potential for Protons	
10:00-10:15	Break					
10:15-12:15	<i>Chair:</i> S. Y. Woo					
10:15-10:30		9	Shiao Woo	M. D. Anderson Cancer Center	Rationale of Proton Therapy in Pediatric Malignancies	
10:30-10:45		10	Stephanie Bolle	Massachusetts General Hospital	Preliminary Report of Proton Radiotherapy for Pediatric Low-Grade Gliomas	
10:45-11:00		11	Nancy Mendenhall	Shands Cancer Center		
11:00-11:15		12	Stephanie Krejcarek	Massachusetts General Hospital	Clinical Outcomes and Late Effects after Proton Radiotherapy for Children with Parameningeal Rhabdomyosarcoma	
11:15-12:00		13	Stephanie E. Combs	University of Heidelberg	Modern High Precision Radiotherapy using Photons, Protons and Carbon Ions for Paediatric Malignancies	
12:00-12:15						
12:15-12:30						
12:30	Adjourn					
16:00-19:00	Registration at Houston Marriott Hotel Medical Center					
17:30-19:00	Steering Committee Meeting	R	Chairman Al Smith	M. D. Anderson Cancer Center		Houston Marriott Hotel Medical Center Conference Rooms 1 & 2 on the 3rd floor
19:00-21:00	Reception - Houston Marriot Hotel Medical Center					

Program Monday, October 9, 2006

Time	Event	No	Speaker	Institution	Title	Location
06:30	Registration/Continental Breakfast					Houston Marriott Hotel Medical Center
07:30-8:30	WORKSHOP: Discrete Spot Scanning at the M. D. Anderson Proton Therapy Center M. Bues	14	Martin Bues	M. D. Anderson Cancer Center	Pencil Beam Scanning at the Proton Therapy Center in Houston	
8:30-09:00	Welcoming Remarks J. D. Cox/ A. Smith			M. D. Anderson Cancer Center		
09:00-12:00	Scientific Session: Clinical Studies I Chair: D. S. Gombos/ S. Kim					
09:00-9:30		15	<i>Keynote Speaker -</i> Evangelos Gragoudas	Massachusetts Eye and Ear Infirmary	Proton Therapy of Uveal Melanomas: Thirty Years Experience	
09:30-09:45		16	Dan S. Gombos	M. D. Anderson Cancer Center	Management of Uveal Melanoma: Plaques Versus Proton Beam Radiotherapy	
09:45-10:00		17	Stella Kim	M. D. Anderson Cancer Center		
10:00-10:30	Break					
10:30-11:45	Scientific Session: Clinical Studies I Chair: A. F. Thornton					
10:30-11:00		18	Gudrun Goitein	Paul Scherrer Institut	Advances in Spot Scanning Proton Therapy at PSI	
11:00-11:15		19	Allan F. Thornton	Midwest Proton Radiotherapy Institute	Progress at Midwest Proton Radiotherapy Institute	
11:15-11:30		20	Norbert J. Liebsch	Massachusetts General Hospital	Skull Base Tumors	
11:30-11:45		21	Claudia Linsenmeier	Massachusetts General Hospital	Craniopharyngioma in childhood: Proton Radiotherapy and Treatment Planning with special attention to the cyst size	
11:45-12:00	Break – pick up box lunch					
12:00-13:00	Workshop – Late Effects Studies <i>(Box Lunch)</i> Chair: T.F. Delaney/ Y. Hishikawa	22	Y. Hishikawa			
13:00-15:00	Scientific Session – Biology/Clinical/Physics Chair: J. Gueulette	23	John Gueulette	Universite Catholique de Louvain		
13:00-13:15		24	Shigeru Yamada	NIRS, Chiba, Japan	The protection of the small intestine and colon from carbon ion particle irradiation by means of Gore-Tex soft tissue patches for patients with pelvic tumors	
13:15-13:30		25	Withdrawn			
13:30-13:45		26	Harm Meertens	University of Groningen	Sparing the heart reduces early function loss of the rat lung most for small irradiated volumes: potential benefit for proton therapy compared to photon therapy.	
13:45-14:00		27	Withdrawn			
14:00-14:15		28	Kenji Kagei	NIRS, Chiba, Japan	Carbon ion therapy for unresectable retroperitoneal sarcomas.	
14:15-14:30		29	George Laramore	University of Washington	The RBE Trap: Lesions from the Fast Neutron Radiotherapy Experience	

14:30-14:45		30	Susan Klein	Midwest Proton Radiotherapy Institute	Genetic Mechanisms of the Dose Rate Effect: Applications of RBE and LET	
14:45-15:00		31	Withdrawn			
15:00-15:30	Break					
15:30-17:10	Scientific Session – Clinical Physics I Chair: R. Mohan/ G. Chen					
15:30-15:45		32	Radhe Mohan	M. D. Anderson Cancer Center	Degradation of the distal edge of proton dose distributions by low density heterogeneities	
15:45-16:00		33	Kiyoshi Yasuoka	University of Tsukuba	Scintillating Plate, block bar, and CCD camera as a tool of QC verification system in proton therapy at PMRC	
16:00-16:15		34	Richard Amos	M. D. Anderson Cancer Center	Target dose coverage in the presence of alignment rotation for proton therapy of prostate cancer	
16:15-16:30		35	Narayan Sahoo	M. D. Anderson Cancer Center	Clinical commissioning of the Eclipse treatment planning system for protons	
16:43-16:45		36	Michael Gillin	M. D. Anderson Cancer Center	Abutment of long passively modulated proton fields	
16:45-17:00		37	Martin Bues	M. D. Anderson Cancer Center	Preparing for prostate treatments with a scanning proton beam at the Proton Therapy Center in Houston	
17:00-17:10		38	Alfred Smith and James Cox	M. D. Anderson Cancer Center	Technical and Clinical update for the M. D. Anderson Proton Therapy Center	
17:10-17:25	Steering Committee Report		Chairman Al Smith	M. D. Anderson Cancer Center		
18:00	Reception – Proton Therapy Center <i>Transportation Provided</i>					

Program Tuesday, October 10, 2006							
Time	Event	No	Speaker	Institution	Title	Location	
07:00	Registration/Continental Breakfast					Houston Marriott Hotel Medical Center	
07:30-08:30	WORKSHOP: Dosimetry and QA for Spot Scanning Chair: E. Pedroni	39	Eros Pedroni	Paul Scherrer Institute			
08:30-10:00	Scientific Session Particle Physics: Chairs: T. Kanai T. Haberer						
08:30-08:50		40	Tatsuaki Kanai	National Institute of Radiological Sciences	Present understanding of physics in carbon therapy		
08:50-09:10		41	Thomas Haberer	Heidelberg Ion Therapy Center	Conceptual and technical means to optimize the performance of the Heidelberg Ion Therapy Center		
09:10-09:25		42	Masumi Umezawa	Power Systems, Hitachi, Ltd	Present Status of Accelerator and Beam Transport System for the M. D. Anderson Proton Therapy System		
09:25-09:40		43	Michael Moyers	Proton Therapy, Inc	Prediction of lateral ion scattering by MCNPX		
09:40-09:55		44	Konstanze Gunzert-Marx	Siemens Medical Solutions, Particle Therapy	The Siemens particle therapy simulation tool – A way to tailor a PT facility to customer requirements		
09:55-10:00	Questions and Discussion						
10:00-10:15	Break						
10:15-12:00	Scientific Session – Treatment Planning Chairs: M. Goitein A. Trofimov						
10:15-10:35		45	Michael Goitein	Harvard Medical School	What is different about proton treatment planning?		
10:35-10:50		46	Andrew Wroe	University of Wollongong	Investigation of the suitability of tissue equivalent materials for proton therapy treatment planning.		
10:50-11:05		47	Withdrawn				
11:05-11:20		48	Shinichiro Mori	Massachusetts General Hospital	Range variation analysis of 4DCT scan for charged particle radiotherapy of lung cancer		
11:20-11:35		49	Yoshikazu Tsunashima	M. D. Anderson Cancer Center	Determining parameters for synchrotron based respiratory gated passively scattered proton irradiation		
11:35-11:50		50	Alexei Trofimov	Massachusetts General Hospital	Analysis of respiratory-surrogate marker data gathered during proton treatments employing respiratory gating		
11:50-12:00	Break – Pick up Box Lunch						
12:00-13:00	WORKSHOP: How to Use a Scarce Particle Resource Wisely (Box Lunch) J. Slater	51	Jerry Slater				
13:00-15:00	SCIENTIFIC SESSION – Clinical Studies II <i>Chairs: A. Leel C. Rossi</i>						

13:00-13:15		52	Carl Rossi	Loma Linda University Medical Center	Current Status of Conformal Proton Beam Therapy of Prostate Cancer in the United States – What Are We Doing and What Should We Be Thinking About?	
13:15-13:30		53	Andrew Lee	M. D. Anderson Cancer Center	Initial experience at PTC Houston	
13:30-13:45		54	Hirohiko Tsujii	National Institute of Radiological Sciences	Overview and Development of Hypofractionated Radiotherapy with Carbon Ion Beams	
13:34-14:00		55	Yoshio Hishikawa	Hyogo Ion Beam Medical Center	Proton and Carbon-ion Treatment at Hyogo	
14:00-14:15		56	Takashi Ogino	National Institute of Neuroscience	Proton Beam Therapy for Skull Base Tumors	
14:15-14:30		57	Hamid Mammam	Institut Curie	Potential Role of PET Tracer (FMISO-18F) to Develop Hypoxia Imaging-Guided Proton Therapy for Skull Base Chordoma	
14:30-14:45		58	Thomas F. Delaney	Massachusetts General Hospital	Clinical Proton Radiation Therapy Research at the Francis H. Burr Proton Therapy Center in Boston	
14:45-15:00		59	Anurag Agarwal	Massachusetts General Hospital	Proton Beam Therapy for Soft Tissue Sarcomas: 35-Year Single Institutional Retrospective Review	
15:00-15:30	Break					
15:30-17:30	Scientific Session Accelerators/Nozzles/ Gantries/Couches Chairs: J. Flanz/ K. Hiramoto					
15:30-15:45		60	Jay Flanz	Massachusetts General Hospital	Design Tradeoffs for Scanning Gantry and Nozzle Systems	
15:45-16:00		61	Damien Prieels	Ion Beam Applications s.a	Will uniform scanning replace double scattering?	
16:00-16:15		62	Dale Litzenberg	University of Michigan	Experimental and numerical studies of high-energy proton acceleration driven by ultra-intense high-contrast laser pulses	
16:15-16:30		63	Yves Jongen	Ion Beam Applications s.a	A compact isocentric gantry for carbon beams	
16:30-16:45		64	Jonathan Hubeau	Ion Beam Applications s.a	Pencil Beam Scanning physical requirements	
16:45-17:00		65	Michael Moyers	Proton Therapy, Inc	Leakage and scatter radiation from a double scattering based proton beamline	
17:00-17:15		66	Jan Timmer	ACCEL Instruments GmbH	The ACCEL single room proton therapy facility	
17:15-17:30		67	Yoshihiko Nagamine	Power Systems, Hitachi, Ltd	Positioning image analysis system (PIAS) for M. D. Anderson Proton Therapy Center	
18:00	Museum of Natural Science (Transportation Provided)					

Program Wednesday, October 11, 2006						
Time	Event	No	Speaker	Institution	Title	Location
06:30	Registration/Continental Breakfast					Houston Marriott Hotel Medical Center
07:30-08:30	WORKSHOP: Respiratory-Correlated Imaging in the Treatment of Lung Cancer Using Proton Beams P. Balter/ R. Amos/ B. Arjomandy	68	Peter Balter Richard Amos Bijan Arjomandy			
08:30-10:30	SCIENTIFIC SESSION – Clinical Physics II Chairs: A. Mazal X. Ronald Zhu	69	Withdrawn			
08:30-08:45		70	Niek Schreuder	ProCuer Treatment Centers	A dedicated proton therapy training and development center to supply in the need of trained staff for proton radiotherapy	
08:45-09:00		71	Naoya Nishimura	Power Systems, Hitachi, Ltd	Proton Therapy System construction project for the M. D. Anderson Proton Therapy Center	
09:00-09:15		72	Andrew Wroe	University of Wollongong	Comparison of measured neutron doses delivered by proton and IMRT-Photon treatments	
09:15-09:30		73	Narayan Sahoo	M. D. Anderson Cancer Center	Beam Characteristics of the passively scattered proton beams at PTC-H	
09:30-09:45		74	Razvan Gaza	M. D. Anderson Cancer Center	Dosimetric characterization of individual proton pencil beams at PTC Houston	
09:45-10:00		75	George Ciangaru	M. D. Anderson Cancer Center	Radiation isocentricity test method for gantries using Gafchromic EBT film	
10:00-10:15		76	John Zullo	M. D. Anderson Cancer Center	Verification of Eclipse lung dose calculations for Proton beams	
10:15-10:30		77	Michael Gillin	M. D. Anderson Cancer Center	Daily Quality Assurance activities at the Proton Therapy Center- Houston	
10:30-11:00	Break					
11:00-11:30	Discussions with lead Talks: Multi-Institution Clinical Trials Discussion Leader: J Cox			M. D. Anderson Cancer Center	Design and Implementation of Clinical Trials	
	Discussion Leader: M. Gillin	78	Michael Gillin	M. D. Anderson Cancer Center	Credentialing	
11:30-11:45	Break			M. D. Anderson Cancer Center		
11:45-12:30	Round Table Discussion: New Horizons for Particle Therapy Discussion Leaders: J Cox and A. Smith	79	Alfred Smith	M. D. Anderson Cancer Center		
	Wanjie, China Invitation and Talk	80	Jiamin Li	Wanjie Proton Therapy Center	Preliminary Results of Proton Beam Therapy for Esophageal Carcinoma	

Posters			
No	Name	Institution	Title
P1	John Zullo	M. D. Anderson Cancer Center	Periodic Quality Assurance testing recommendation for the Proton Therapy Center-Houston
P2	Ravi Vadapalli	High Performance Computing Center	Computational radiotherapy with proton beam on Texas Grid computing infrastructure
P3	Robert Foote	Mayo Clinic	Proton therapy for left sided breast conserving cancer therapy
P4	Michael Gillin	M. D. Anderson Cancer Center	An integrated proton and photon electronic medical record
P5	Marc Bussiere	Massachusetts General Hospital	A dedicated proton SRS/SRT beamline: Commissioning results and logistics of patient treatments
P6	Juergen Duppich	Paul Scherrer Institut	The super-conducting cyclotron COMET and beam lines of PSI's new proton therapy facility PROSCAN
P7	Rajat Kudchadker	M.D. Anderson Cancer Center	Use of a single implanted fiducial marker for prostate target alignment.
P8	Louis Archambault	M. D. Anderson Cancer Center	Behavior of Plastic Scintillators Under Proton Irradiation: Monte Carlo Simulations and Experimental Measurements
P9	M. Schillo	ACCEL Instruments	Specifications of a proton pencil beam scanning system
P10	S. Schmidt	ACCEL Instruments	Overall treatment precision concepts for particle therapy
P11	Klaus Hermann	Siemens Medical Solutions, Particle Therapy	Using industrial robots for patient positioning and imaging – a study to enhance flexibility and preciseness
P12	Jungwon Kwak	Research Institute and Hospital, National Cancer Center	Study of Radioactivity Induced by Therapeutic Proton Beam
P13	Jungwon Kwak	Research Institute and Hospital, National Cancer Center	Current Status of Proton Therapy Facility at National Cancer Center in Korea
P14	George Ciangaru	M. D. Anderson Cancer Center	A patient specific proton treatment dose delivery verification.
P15	Daniel Yeung	University of Florida Proton Therapy Institute	Clinical Commissioning of the Eclipse Proton Planning System for an IBA Gantry at UFPTI
P16	Joe Y. Chang	M.D. Anderson Cancer Center	Improved normal tissue sparing with the respiratory gated proton beam radiotherapy in mobile lung cancer
P17	Wen C. Hsi	Midwest Proton Radiotherapy Institute	Using Multi-Layer Ionization Chamber array to characterize proton depth doses formed by active wobbling and energy-stacking techniques
P18	Shannon Macdonald	Massachusetts General Hospital	Proton Beam Radiation Therapy for Accelerated Partial Breast Irradiation (PBI): Initial Clinical Experience and Dosimetric Comparison
P19	Dmitri Nichiporov	Indiana University Cyclotron Facility	Beam Profile Detectors for Active Methods of Beam Delivery