

Program of GI-CoRE Summer School for Medical Physics 2015

As of 12 June, 2015

Friday, June 12				
Chapter	Time		Title	Lecturer
	1:00 PM	1:10 PM	Welcome	Prof. Ichiro Uyeda
1	1:10 PM	2:40 PM	Overview of Radiation Therapy	Prof. Hiroki Shirato
	2:40 PM	2:50 PM	Refreshment Break	
2	2:50 PM	4:20 PM	Interaction of Therapeutic Radiations with Matter	Dr. Hideyuki Mizuno(NIRS)
	4:20 PM	4:30 PM	Refreshment Break	
3	4:30 PM	6:00 PM	Treatment Planning for Radiation Therapy	Prof. Lei Xing
6:30 pm - 8:00 pm Dinner Informal Evening Session with Lecturers				
Monday, June 15				
Chapter	Time		Title	Lecturer
4	9:00 AM	10:30 AM	Introdction of Radiomics	Dr. Yi Cui
	10:30 AM	10:40 AM	Refreshment Break	
5	10:40 AM	11:40 AM	Real-time Tumor Tracking Radiation Therapy	Prof. Masayori Ishikawa
	11:40 AM	1:00 PM	Lunch	
6	1:00 PM	2:30 PM	Principle and Practices of SRS and SBRT	Prof. Lijun Ma
	2:30 PM	3:30 PM	Treatment Planning Practice (X-ray)	Dr. Ryusuke Suzuki
	3:30 PM	4:00 PM	Refreshment Break	
	4:00 PM	6:00 PM	Practical Training-1: Patient QA (X-ray)	Dr. Ryusuke Suzuki
Tuesday, June 16				
Chapter	Time		Title	Lecturer
7	9:00 AM	9:30 AM	Introduction of Particle Therapy	Dr. Yuka Matsuzaki
8	9:30 AM	10:00 AM	Treatment Machines for Particle Therapy	Dr. Takahiro Yamada
9	10:00 AM	10:30 AM	Treatment Planning for a Scanned Proton Beam Delivery System	Dr. Taeko Matsuura
	10:30 AM	10:40 AM	Refreshment Break	
10	10:40 AM	11:10 AM	Treatment Planning System for Spot Scanning Proton Therapy	Dr. Yusuke Fujii
	11:10 AM	12:10 PM	Treatment Planning Practice (Proton)	Medical Physics Staff
	12:10 PM	1:30 PM	Lunch	
11	1:30 PM	2:30 PM	Proton Treatment System in Hokkaido University	Prof. Kikuo Umegaki
	2:30 PM	3:00 PM	Faculty Tour of Proton Site	Prof. Kikuo Umegaki
	3:00 PM	4:30 PM	Free Discussion (Plan of Graduate School of Quantum Medical Science and Engineering)	Prof. Hiroki Shirato Prof. Lei Xing
Wednesday, June 17				
Chapter	Time		Title	Lecturer
12	9:00 AM	9:30 AM	Quality Assurance of External Beam Therapy	Dr. Naoki Miyamoto
13	9:30 AM	10:00 AM	Quality Assurance in Particle Therapy	Dr. Seishin Takao
	10:00 AM	10:10 AM	Refreshment Break	
14	10:10 AM	11:40 AM	Four-dimensional Radiation Oncology	Dr. Shinichi Shimizu
	11:40 AM	2:00 PM	Lunch	
	2:00 PM	3:30 PM	Practical Training-2: QA (Proton)	Medical Physics Staff
	3:30 PM	4:00 PM	Refreshment Break	
	4:00 PM	5:30 PM	Practical Training-3: Patient QA (Proton)	Medical Physics Staff
Thursday, June 18				
Chapter	Time		Title	Lecturer
15	9:30 AM	10:30 AM	Basic of Radiobiology	Dr. Jin-Min Nam
	10:30 AM	10:40 AM	Refreshment Break	
16	10:40 AM	12:10 PM	Recent Developments in Instrumentation for Positron Emission Tomography	Dr. Ruud Vinke
	12:10 PM	12:20 PM	Closing	Prof. Kikuo Umegaki