



Conference on Topics in Therapeutic and Diagnostic Medical Physics

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Scientific Program (June-Updates)

Pre Conference Opening

Evening Before

Day1: Thursday October 7th

08:30 – 08:45	Welcome Remarks, Program Introduction
08:45 - 09:15	The Status of Medical Physics in Jordan (Jordan Speaker)
09:15 – 10:00	The Medical Physicist: Practice and Training Needs (Dr. Boyer)
10:00 – 10:15	Coffee Break
10:15 – 11:05	Image Formation and Image Characteristics (Dr. Gould)
11:05 – 11:55	Digital Radiography (Dr. Mustafa)
11:55 – 12:45	Dose Distribution, Scatter Analysis & Inhomogeneity Correction (Dr. Al-Ghazi)
12:45 - 02:00	Lunch Break (Group Photo)
02:00 – 02:50	Linear Accelerator Technology, Past, Present and Future (Dr. Boyer)
02:50 – 03:40	Nuclear Medicine Imaging: Planar and SPECT (Dr. Zaidi)
03:40 – 03:55	Coffee Break
03:55 – 04:55	Dose Specifications and Recording for Photon Beams: Review of ICRU50&62 (Dr. Al-Ghazi)
04:55 – 05:45	PET-CT: Principles and Applications (Dr. Zaidi)

Day 2: Friday October 8th

08:30 – 09:20	Quality Assurance in Radiotherapy (Dr. Miften)
09:20 - 10:10	IMRT Principles and Delivery Technology (Dr. Boyer)
10:10 – 11:00	IMRT Quality Assurance (Dr. Miften)
11:00 – 11:10	Coffee Break
11:10 – 11:50	Advances in Multi- Detector CT (Dr. Gould)
11:50 – 12:30	Quantitative Procedures in Nuclear Medicine (Dr. Zaidi)
12:30 - 2:30	Lunch + Friday Prayer
02:30 – 03:20	Measurement and Calculation of Absorbed Dose: AAPM TG-51 and IAEA TRS-398 Dosimetry Protocols (Dr. Thomadsen)
03:20 – 04:10	Mammography: Screen-film to Digital Mammography (Dr. Gould)
04:10 – 04:25	Coffee Break
04:25 – 05:05	Advances in CR, Dr and PACS (Dr. Mustafa)
05:05 – 05:45	Molecular Imaging-Guided Radiation Therapy Treatment Planning (Dr. Zaidi)

Day 3: Saturday October 9th

08:30 – 09:15	Image-Guided Radiation Therapy: Advantages and Challenges (Dr. Thomadsen)
09:15 - 10:00	In-Room Imaging for Daily Treatment Planning (Dr. Miften)
10:00 – 10:45	Treatment Planning Systems: Commissioning and Quality Assurance (Dr. Al-Ghazi)
10:45 – 11:00	Coffee Break
11:00– 11:50	Risk Benefit Analysis in Diagnostic Radiology: The Pregnant Patient (Dr. Mustafa)
11:50 – 12:40	Imaging in Radiation Oncology: CT and MRI (Dr. Boyer)
12:40 - 2:10	Lunch Break

02:10– 03:10	Radiobiology Principles and the Linear Quadratic Model (Dr. Thomadsen)
03:15 – 04:05	Stereotactic Body Radiation Therapy (Dr. Miften)
04:05 – 04:20	Coffee Break
04:20– 05:00	Total body and Total skin Irradiation (Dr. Miften)
05:00 – 05:45	CT Simulators: Commissioning, Quality Assurance and Clinical Applications (Dr. Al-Ghazi)

Day 4: Sunday October 10th

08:30 – 09:20	Modern Brachytherapy Techniques (Dr. Thomadsen)
09:20 - 10:10	Acceptance Testing, Quality Assurance and Beam Data Acquisition of Linear Accelerators (Dr. Boyer)
10:10 – 11:00	Quality Assurance in Diagnostic Radiology: Technical Aspects (Dr. Gould)
11:00 – 11:10	Coffee Break
11:10 – 12:00	Shielding Design in Diagnostic Radiology (Dr. Mustafa)
12:00 – 12:50	Shielding Design in Radiation Therapy (Dr. Boyer)
12:50 – 01:20	Closing Remarks and Distribution of Certificates (Program Directors)