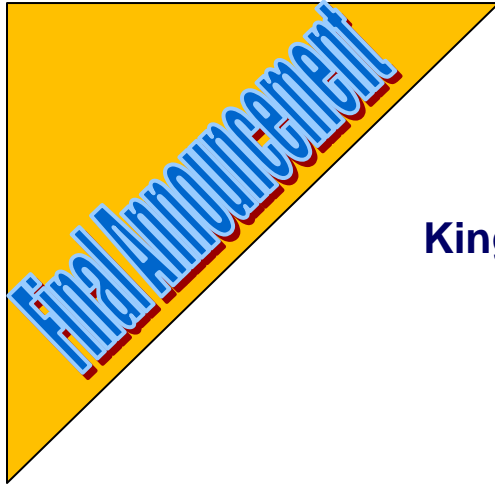




American Association of Physicists in
Medicine



مركز الحسين للسرطان
KING HUSSEIN CANCER CENTER



King Hussein Cancer Center

In sponsorship with

International Scientific Exchange Program of the American Association of
Physicists in Medicine (AAPM), and with the collaboration of

Jordan Association of Physicists in Medicine (JAPM)

Invites you to attend:

The 22nd King Hussein Cancer Center Conference:

1st National Conference on Therapeutic & Diagnostic Medical Physics

Landmark Hotel

Amman, Jordan

October 7th – 10th, 2010

Welcome Note:

King Hussein Cancer Center is hosting the first Medical Physics Conference in Jordan, in sponsorship with the American Association of Physicists in Medicine (AAPM) and with the collaboration of the Jordan Association of Physicists in Medicine (JAPM).

The conference aims to bring together specialists from various academic institutes, research centers, and hospitals in the region, to discuss relevant topics in the area of radiation physics and share their expertise in the fields of diagnostic radiology, radiotherapy and radiation protection.

Topics include: ionizing radiation dose to pregnant women from diagnostic radiology and radiotherapy, radiobiology, new machine acceptance and commissioning, and minimizing dose to general public from radiation through shielding design and regulations. In addition, conference will discuss state of the art methods for precise radiation delivery such as image guided radiotherapy, intensity modulated radiotherapy. Advances in medical imaging will be discussed, including digital mammography, computed radiography, digital radiography, and picture archiving and communication systems (PACS).

Conference Goals:

Providing updates on the status and advances in the physics of Diagnostic Radiology, Radiation Oncology and Radiation Safety and Shielding.

Who Should Attend?

- Physicists in clinical and regulatory agencies
- Medical Residents in Radiation Oncology and Radiology
- Medical Doctors in Radiation Oncology and Radiology
- Biomedical Engineering Faculty
- Students interested in Radiation Medicine Applications

Continuous Medical Education Credit Hours (CME's):

The conference organizers have applied for CME hours from the Commission on Accreditation of Medical Physics Educational Programs (CAMPEP) and CME from the Jordan Medical Council.

Conference Local Organizing Committee:

- Shada Ramahi, PhD (**Chairperson**).
- Majd Hawari, PhD (Assistant Chairperson)
- Sharif Qatarneh, PhD
- Moayyad Alsabbagh
- Mrs. Hanan Ghatasheh
- Mr. Nael Al-Shishani
- Mr. Sufian Al-Kiswani

Conference AAPM Organizing committee:

- Adel Mustafa, Ph.D., (AAPM Program Director)
- Matthew Al-Ghazi, Ph.D., (Assistant AAPM Program Director)

AAPM Faculty (in alphabetical order):

Adel Mustafa, Ph.D., FAAPM

Department of Radiology
New York Medical College - New York, USA

Arthur L. Boyer, Ph.D., FAAPM

Radiology Department
Texas A&M School of Medicine - Temple, Texas, USA

Bruce R. Thomadsen, Ph.D., FAAPM

Departments of Medical Physics and Radiation Oncology
University of Wisconsin - Madison, Wisconsin, USA

Habib Zaidi, Ph.D.

Geneva University Hospital
Division of Nuclear Medicine - Geneva, Switzerland

Matthew Al-Ghazi, Ph.D., FAAPM

Department of Radiation Oncology
University of California - Irvine, California, USA

Moyed Miften, Ph.D, FAAPM

Radiation Oncology Department
University of Colorado Denver - Aurora, Colorado, USA

Robert Gould, Ph.D., FAAPM

Department of Radiology and Biomedical Imaging
University of California - San Francisco, California, USA

Conference Agenda:

Day 1: Thursday, October 7th, 2010

07:00 -12:00	<i>Late Registration</i>
08:00 – 08:40	Welcome Remarks, Program and Faculty Introduction Mahmoud Sarhan, MD, CEO Adel Mustafa, PhD, FAAPM
Session I: 08:45 - 09:15	Moderators: A. Al-Mousa, MD, J. Khader, MD, A. Kazwini, PhD The Status of Medical Physics in Jordan Sharif Qatarneh, PhD
09:15 – 10:00	The Medical Physicist: Practice and Training Needs Arthur L. Boyer, PhD, FAAPM
10:00 – 10:15	<i>Coffee Break</i>
Session II: 10:15 – 11:05	Moderators: B. Mofteh, PhD, S. Hashem, MD Image Formation and Image Characteristics Adel Mustafa, PhD, FAAPM
11:05 – 11:55	Digital Radiography Robert Gould, PhD, FAAPM
11:55 – 12:45	Dose Distribution, Scatter Analysis & Inhomogeneity Correction Matthew Al-Ghazi, PhD, FAAPM
0:10 min	Q & A for sessions I and II
12:55 - 02:10	<i>Lunch Break (Group Photo)</i>
Session III: 02:00 – 02:50	Moderators: S. Qatarneh, PhD, L. Yahia, MD Linear Accelerator Technology, Past, Present and Future Arthur L. Boyer, PhD, FAAPM
02:50 – 03:40	Nuclear Medicine Imaging: Planar and SPECT Habib Zaidi, PhD
0:10 min	Q & A
03:50 – 04:05	<i>Coffee Break</i>
Session IV: 04:05 – 05:05	Moderators: M. Hawari, PhD, N. Al-Nasser, MD Dose Specifications and Recording for Photon Beams: Review of ICRU50&62 Matthew Al-Ghazi, PhD, FAAPM
05:05 – 05:55	PET-CT: Principles and Applications Habib Zaidi, PhD
0:10	Q & A

Day 2: Friday October 8th, 2010

- Session I:** **Moderators: B. Moftah, PhD, L. Yahia, MD**
08:30 – 09:20 **Quality Assurance in Radiotherapy**
 Moyed Miften, PhD, FAAPM
- 09:20 - 10:10** **IMRT Principles and Delivery Technology**
 Arthur L. Boyer, PhD, FAAPM
- 10:10 – 11:00** **IMRT Quality Assurance**
 Moyed Miften, PhD, FAAPM
- 0:10 min** **Q & A**
- 11:10 – 11:20** *Coffee Break*
-
- Session II:** **Moderators: M. Hawari, PhD, N. Al-Nasser, MD**
11:20 – 12:00 **Advances in Multi- Detector CT**
 Robert Gould, PhD, FAAPM
- 12:00 – 12:40** **Quantitative Procedures in Nuclear Medicine**
 Habib Zaidi, PhD
- 0:10** **Q & A**
- 12:40 - 2:30** *Lunch & Prayer*
-
- Session III:** **Moderators: S. Ramahi, PhD, J. Khader, MD**
02:30 – 03:20 **Measurement and Calculation of Absorbed Dose: AAPM TG-51 and IAEA TRS-398 Dosimetry Protocols**
 Bruce R. Thomadsen, PhD, FAAPM
- 03:20 – 04:10** **Mammography: Screen-film to Digital Mammography**
 Adel Mustafa, PhD, FAAPM
- 0:10** **Q & A**
- 04:20 – 04:35** *Coffee Break*
-
- Session IV:** **Moderators: S. Qatarneh, PhD, I. Duhaini**
04:25 – 05:05 **Advances in CR, DR and PACS**
 Robert Gould, PhD, FAAPM
- 05:05 – 05:45** **Molecular Imaging-Guided Radiation Therapy Treatment Planning**
 Habib Zaidi, PhD
- 0:10** **Q & A**

Day 3: Saturday October 9th, 2010

- Session I:**
08:30 – 09:15 **Moderators: A. Kazwini, PhD, L. Yahia, MD**
Image-Guided Radiation Therapy: Advantages and Challenges
 Bruce R. Thomadsen, PhD, FAAPM
- 09:15 - 10:00** **In-Room Imaging for Daily Treatment Verification**
 Moyed Miften, PhD, FAAPM
- 10:00 – 10:45** **Treatment Planning Systems: Commissioning and Quality Assurance**
 Matthew Al-Ghazi, PhD, FAAPM
- 0:10** **Q & A**
- 10:55 – 11:10** *Coffee Break*
-
- Session II:**
11:00– 11:50 **Moderators: B. Moftah, PhD, I. Jaradat, MD**
Risk Benefit Analysis in Diagnostic Radiology: The Pregnant Patient
 Adel Mustafa, PhD, FAAPM
- 11:50 – 12:40** **Imaging in Radiation Oncology: CT and MRI**
 Arthur L. Boyer, PhD, FAAPM
- 0:10** **Q & A**
- 12:50 - 2:20** *Lunch Break*
-
- Session III:**
02:10– 03:10 **Moderators: M. Hawari, PhD, S. Qatarneh, PhD**
Radiobiology Principles and the Linear Quadratic Model
 Bruce R. Thomadsen, PhD, FAAPM
- 03:15 – 04:05** **Stereotactic Body Radiation Therapy**
 Moyed Miften, PhD, FAAPM
- 0:10** **Q & A**
- 04:15 – 04:30** *Coffee Break*
-
- Session IV:**
04:20– 05:00 **Moderators: I. Duhaini, L. Yahia, MD**
Total body and Total skin Irradiation
 Moyed Miften, PhD, FAAPM
- 05:00 – 05:45** **CT Simulators: Commissioning, Quality Assurance and Clinical Applications**
 Matthew Al-Ghazi, PhD, FAAPM
- 0:10** **Q & A**

Day 4: Sunday October 10th, 2010

Session I:	J. Sharaf, PhD, I. Jaradat, MD
08:30 – 09:20	Modern Brachytherapy Techniques Bruce R. Thomadsen, PhD, FAAPM
09:20 - 10:10	Acceptance Testing, Quality Assurance and Beam Data Acquisition of Linear Accelerators Moyed Miften, PhD, FAAPM
10:10 – 11:00	Quality Assurance in Diagnostic Radiology: Technical Aspects Robert Gould, PhD, FAAPM
0:10	Q & A
11:00 – 11:10	<i>Coffee Break</i>
Session II:	S. Dababneh, PhD, M. Hawari, PhD
11:10 – 12:00	Shielding Design in Diagnostic Radiology Adel Mustafa, PhD, FAAPM
12:00 – 12:50	Shielding Design in Radiation Therapy Arthur L. Boyer, PhD, FAAPM
0:10	Q & A
01:00 – 01:10	Invited presentation: Radioactivity in Argeeleh Akeel Al-Kazwini, PhD. Dean, School of Applied Medical Sciences German Jordan University
01:10 – 01:30	Closing Remarks and Distribution of Certificates (Program Directors)
01:30	<i>Adjourn & Lunch</i>

General Information:

Venue:

The conference will be held at Landmark Hotel in Amman - Jordan. Accommodation for the Speakers will be at the Landmark Hotel that is located 35 minutes drive away from Queen Alia International Airport and is located in the heart of Amman city and within a walking distance of both shopping and business districts.

Hotel Contact Details:

Al Hussein Bin Ali Street
P.O. Box 6399 Amman 11118 Jordan
Telephone: (+962) (6) 560 7100
Fax: (+962) (6) 566 5160
E-mail: info@landmarkamman.com
www: landmarkamman.com

Hotel Reservation:

- To get the discounted reservation in the participating hotels, please contact the organizing committee (Mr. Nael Al-Shishani at nshishani@khcc.jo, a credit card (name of holder, number and expiration date), full name and name of the conference, date/time of arrival and departure are required).
- Participating hotels are:
 1. ***** star hotel: Landmark Hotel: JD90 plus tax = ~JD105/night
 2. *** star hotel: Al Fanar Palace: JD50/night (inclusive of taxes)
Above rates includes Breakfast.

Conference Registration:

- Pre-registration is required for attendance.
- To register for the conference, please send an email to the conference coordinator; Mrs. Hanan Ghatasheh at hghatasheh@khcc.jo and cc to Dr. Shada Ramahi, Sramahi@khcc.jo
- The email should include the following information: full name, title, affiliation, country and contact information.
- Registration fees:
 1. Early bird: August 1st -31st, 2010: 30JD
 2. Afterwards: 50JD
 3. Onsite registration: 70JD (For Onsite registration, conference materials may not be available).
- Payment methods: certified checks and bank transfers are acceptable methods of payments.
 1. Make checks payable to: King Hussein Cancer Center/ISEP Conference, to be delivered to Mrs. Hanan Ghatasheh (KHCC, Main building, Administration Floor).
 2. Bank transfers should be sent to: Bank of Jordan, Jabal Amman First Circle, P.O. Box: 3080, Amman 11181, Jordan; Account number: 021 / 0023010140803003, Swift Code: BJORJOAXX For bank transfer, kindly send an email to Mrs. Hanan Ghatasheh, hghatasheh@khcc.jo to notify transfer. Retain a copy of the money transfer number and document.

Conference Language: English. No translation will be provided.

About Jordan:

- **Climate and Weather:** During October, the weather is generally pleasant and cool with temperature in mid-20s during the day.
- **Currency:** the official currency is the Jordanian Dinar (JD), (1 USD equals about 0.70 JD).
- **Time:** Jordan is 3 hours ahead of Greenwich Mean Time (GMT +3)
- **Entry and Visa Requirements:** Entry visa is required for certain nationalities and can be obtained at the airport. Visitors arriving by land must get a visa prior to arrival since it cannot be obtained at Jordan's land border crossings.

To learn more about Jordan, please visit: www.visitjordan.org OR www.new7wonders.com

For Assistance:

If you have any inquiries related to registration, accommodations, program or other issues related to the conference, please contact us:

- **Mrs. Hanan Ghatasheh (conference secretary):**
 1. **Email:** hghatasheh@khcc.jo
 2. **Phone:** +(962) 6 530 0460, Ext. 1777
- **Mr. Nael Al-Shishani (Director of Public Relations Office):**
 - o **Email:** nshishani@khcc.jo
 - o **Phone:** +(962) 6 530 0460, Ext.1679, 8114