The Abdus Salam International Centre for Theoretical Physics

Joint ICTP-IAEA Advanced Course on Mammography

Organizer(s): L. Bertocchi (ICTP), M. de Denaro (Trieste), P. Kivitz (ACR), D. McLean (IAEA), R. Padovani (EFOMP), M. Yaffe (AAPM),
Trieste - Italy, 03 - 07 October 2011

Venue: Leonardo da Vinci Building Euler Lecture Hall

Final programme

Monday, 3 October (Room:Leonardo da Vinci Building Euler Lecture Hall)

3 October 2011

09:00 - 09:30	--- Registration outside Euler Lecture Hall ---
09:30 - 09:45	--- Opening ---
09:45 - 10:30	**Philip Kivitz** / *ACR, San Francisco, USA* **Global breast cancer**
10:30 - 11:00	--- Coffee Break ---
11:00 - 11:40	**Martin Yaffe** / *AAPM, Toronto, Canada* **The physical basis of X-ray detection mammographic pathology**
11:40 - 12:20	**Andre Van Steen** / *University Hospital Leuven, Belgium* **Diagnostic and screening mammography: impact on patient outcomes**
12:20 - 13:00	**Edward Hendrick** / *AAPM, Colorado, USA* **The role of the physicist in screening and diagnostic mammography**
13:00 - 14:00	--- Lunch Break ---
14:00 - 14:45	**Andre Van Steen** **Radiologists in mammography. Challenges in resource limited settings**

14:45 - 15:30	**Paola Bregant** / *Ospedale Maggiore, Trieste* **Role of the radiographer in the quality process**
15:30 - 16:00	--- Coffee Break ---
16:00 - 16:45	**Edward Hendrick** **Comparing radiation doses and cancer risks**
16:45 - 17:30	**Philip Kivitz** **Assuring quality: audit and accreditation - ACR example**
19:00 - 21:00	--- Conference Dinner - Leonardo Building Cafeteria ---

Tuesday, 4 October (Room:Leonardo da Vinci Building Euler Lecture Hall)

4 October 2011

09:00 - 09:45	**Martin Yaffe** **Mammography X-ray equipment**
09:45 - 10:30	**Edward Hendrick** **Screen film mammography systems: optimizing screen-film mammography**
10:30 - 11:00	--- Coffee Break ---
11:00 - 11:40	**Gisella Gennaro** / *EFOMP, Istituto Oncologico Veneto, Padova, Italy* **Automatic exposure control: principles, set-up and QC**
11:40 - 12:20	**Donald McLean** / *IAEA, Vienna, Austria* **Film processing and darkroom QC**
12:20 - 13:00	**Hilde Bosmans** / *EFOMP, Rotselaar, Belgium* **Managing QA for a national screen film mammography programme**
13:00 - 14:00	--- Lunch Break ---
14:00 - 14:45	**Paola Bregant** **Dosimetry in mammography**
14:45 - 15:30	**Gisella Gennaro** **Mammographic geometry: ensuring correct X-ray field coverage and compression**
15:30 - 16:00	--- Coffee Break ---
16:00 - 16:45	**Donald McLean** **Screen film image quality, the role of phantoms and viewing the film image**
16:45 - 17:30	**Martin Yaffe** **Description of digital technology for mammography**

Wednesday, 5 October (Room:Leonardo da Vinci Building Euler Lecture Hall)

5 October 2011

09:00 - 09:45	**Hilde Bosmans** **Digital image receptors and effects on image quality**
09:45 - 10:30	**Annalisa Trianni** / *Azienda Ospedaliera Udine, Italy* **Specification and acceptance of digital imaging equipment**
10:30 - 11:00	--- Coffee Break ---
11:00 - 11:40	**Gisella Gennaro** **Digital image quality QC**
11:40 - 12:20	**Martin Yaffe** **The Canadian experience in digital mammography QC**
12:20 - 13:00	**Hilde Bosmans** **Viewing the mammographic image: QC considerations**
13:00 - 14:00	--- Lunch Break ---
14:00 - 17:00	**Practical Session 1 [choose A or B] [A - ICTP] [B - Practical at Hospital]**

Thursday, 6 October (Room:Leonardo da Vinci Building Euler Lecture Hall)

6 October 2011

09:00 - 09:45	**Hilde Bosmans** **Characterising image quality in digital image receptor**
09:45 - 10:30	**Edward Hendrick** **Breast biopsy methods and QA**
10:30 - 11:00	--- Coffee Break ---
11:00 - 11:40	**Martin Yaffe** **Transition from analog to digital mammography**
11:40 - 12:20	**Mario de Denaro** / *Ospedale Maggiore, Trieste, Italy* **PACS and DICOM structures**
12:20 - 13:00	**Philip Kivitz** **Breast cancer detection methods besides mammography**
13:00 - 14:00	--- Lunch Break ---
14:00 - 17:00	**Practical Session 2 [Choose B or A] [A - ICTP] [B - Practical at Hospital]**

Friday, 7 October (Room:Leonardo da Vinci Building Euler Lecture Hall)

7 October 2011

09:00 - 09:30	**Edward Hendrick** **Optimizing the technical aspects of breast MRI**
09:30 - 10:30	**Status of mammography in country of participants**

10:30 - 11:00	--- Coffee Break ---
11:00 - 11:40	(Room: Leonardo da Vinci Building Main Lecture Hall) **Hilde Bosmans** **Tomosynthesis**
11:40 - 12:00	(Room: Leonardo da Vinci Building Main Lecture Hall) **Giorgio Mustacchi** / *Trieste, Italy* **General overview of breast cancer management**
12:00 - 13:00	(Room: Leonardo da Vinci Building Main Lecture Hall) **Hilde Bosmans, Ed Hendrick, Philip Kivitz, Donald McLean, Andre Van Steen** **Round Table - Status of mammography and strategies for the future (Chairperson: Mario de Denaro)**
13:00 - 14:00	--- Lunch Break ---
14:00 - 14:45	**Exam on content**
14:45 - 15:30	**Luigi Rigon** / *INFN Trieste, Italy* **Phase contrast mammography**
15:30 - 16:00	--- Coffee Break ---
16:00 - 16:45	**Evaluation of School**
16:45 - 17:30	**Review of exam results**