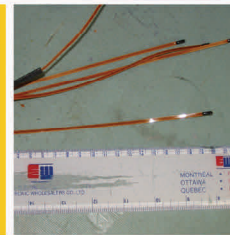
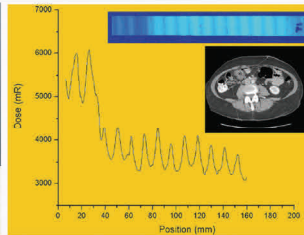




# IAEA Course TRS 457: Joint KFSHRC/IAEA Advanced School on Dosimetry in Diagnostic Radiology and its Clinical Implementation

Venue:  
King Faisal Specialist Hospital & Research Centre  
Riyadh, Kingdom of Saudi Arabia  
on  
14-18 Rabi Al-Awal 1431 (28 February to 4 March 2010)



## PROGRAM SCHEDULE

**Hosted by:**  
Biomedical Physics Department  
King Faisal Specialist Hospital &  
Research Centre

**Sponsored by:**  
International Atomic Energy Agency  
King Abdulaziz City for Science and  
Technology

**Endorsed by:**  
Academic and Training Affairs  
Training and Education Office,  
Research Centre

**Contact Information:**  
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### Course Director

**Belal Mofteh, PhD, FCCPM**  
Chairman, ICRM 2010  
Chairman, Biomedical Physics Department  
King Faisal Specialist Hospital & Research Centre

### Speakers

Donald Mclean, PhD (IAEA)  
Claire-Louise Chapple, PhD (IAEA)  
Konstantinos Hourdakis, PhD (IAEA)  
Slobodan Devic, PhD (McGill University)  
Abdalla Al-Haj, PhD (KFSH&RC)



[www.radmed.org](http://www.radmed.org)



**TRAINING & EDUCATION**

### CME Accreditation:

Saudi Commission for Health Specialities (SCHS)  
American Academy of Continuing Education

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## Message from the Course Director

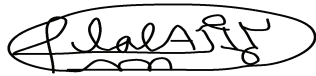
I wish to welcome you to the “IAEA Regional Training Course on Diagnostic X-ray Dosimetry Based on TRS 457”, hosted by the Biomedical Physics Department of the King Faisal Specialist Hospital and Research Centre (KFSH&RC), Riyadh, Saudi Arabia, from 28 February to 04 March 2010. This training course is organized by KFSH&RC in cooperation with the International Atomic Energy Agency (IAEA) and King Abdulaziz City for Science and Technology (KACST), in line with IAEA mission of upgrading the knowledge of medical physics professionals in Arab-Asia member states.

On behalf of KFSH&RC, we are honored to host this training course which aims to enhance the knowledge of health professionals in the field of clinical diagnostic radiology dosimetry and to improve the measurement and understanding of the dose delivered to patients undergoing diagnostic radiology examinations.

It is indeed a great opportunity to hold this year’s IAEA training course in conjunction with the ICRM 2010, an international conference for which KFSH&RC, KACST, and IAEA are also co-organizers. The scientific program of both events certainly affords all participants informative lectures and workshops conducted by IAEA and world-renowned speakers who are acclaimed authorities and experts in their respective fields and professions.

We take pride to have been entrusted this IAEA program activity and likewise to have the expertise and state-of-the-art resources at KFSH&RC to effectively fulfill the mission set for this undertaking.

Sincerely,



Belal Moftah, PhD, FCCPM  
Course Director, IAEA Course  
Chairman, ICRM 2010  
Chairman, Biomedical Physics Department

## Course Description and Objectives

The widespread use of ionizing radiation in the course of wide range of diseases raises a question of accurate assessment of dose delivered to the subjects under investigation, especially if repeated examinations are required. This course concentrates on procedures in place to assess both *in vitro* and *in vivo* dose delivered to patients in the course of diagnostic radiology procedures that involve use of the low energy X-ray tubes.

### Target Audience:

The course is aimed for diagnostic radiologists, radiation oncologists, and radiation physicists who are keen to update themselves on the latest developments in diagnostic radiology dosimetry.

### Lectures:

- Introduction to radiological dosimetry
- DRL determination
- Calibration at an SSDL facility
- Phantoms, dose and image quality
- Selection of instrumentation
- Dosimetry for fluoroscopy - basics
- Patient dose audit methods and results
- Dosimetry in interventional radiology
- Pediatric dosimetry with examples
- Dosimetric quantities and units introduction
- Dosimetry framework, formalism including uncertainties
- Dosimetry for general radiology and clinical uncertainty
- Dosimetry for CT #1: Basic Dosimetry
- Calibration of KAP meters and CT chambers
- Dosimetry for mammography
- Dosimetry for CT #2: Multi slice technology
- X ray spectra and beam qualities
- Fetal dose and pregnancy policy
- Dosimetry for CT #3: Practical experiences
- Effective dose and its limitations
- Dosimetry for Dental radiography
- Optimization

### Tutorials:

- Uncertainty in instrumentation measurement
- Uncertainty in clinical measurement
- GafChromic film Dosimetry in Diagnostic Radiology

## Course Description and Objectives

### **Course Description:**

The goal of this course is to demonstrate hands on procedures in place to assess both *in vitro* and *in vivo* dose delivered to patients in the course of diagnostic radiology procedures that involve use of low energy X-ray tubes. Reference dosimetry procedures for the ionization chambers in low energy photon beams will be demonstrated.

### **Target Group:**

The workshop is aimed primarily for diagnostic radiologists, radiation oncologists, and radiation physicists who are keen to update themselves on the latest developments in diagnostic radiology dosimetry

### **The core objectives of this program constitute the following:**

1. to understand the physics principles and theory involved for diagnostic radiology imaging modalities;
2. to identify possible areas for improvement in the field of diagnostic x-ray dosimetry;
3. to provide participants with a better understanding of the technology and physical principles of the equipment used in radiology;
4. to provide a forum where advances in diagnostic x-ray dosimetry can be discussed;
5. to meet demands of Member States for the Agency's support in disseminating the new Code of Practice for dosimetry in diagnostic radiology;
6. to enhance the capabilities of medical physics professionals in the region.

## Speakers

**Ian Donald McLean, PhD**

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# Opening Ceremony

**Sunday, 28 February 2010**

**Venue: Prince Salman Auditorium**

**0930 – 1000**

**Breakfast**

*at the Prince Salman Auditorium Foyer*

**1000 – 1005**

**Recitation of the Holy Quran**

*Dr. Adnan Al-Hebshi*

Consultant Radiation Oncologist,  
Oncology Center, KFSH&RC

**1005 – 1015**

**Opening Remarks**

*Dr. Belal Moftah*

Director, IAEA Course 2010  
Chairman, ICRM 2010  
Chairman, Biomedical Physics Department  
Research Centre, KFSH&RC

**1015 – 1025**

**IAEA Course Coordinator Address**

*Dr. Ian Donald Mclean*

Medical Radiation Physicist  
International Atomic Energy Agency

**1025 – 1035**

**Chief Executive Director Address**

*Dr. Qasim Al-Qasabi*

Chief Executive Director  
King Faisal Specialist Hospital & Research  
Centre, KFSH&RC

# Activity Schedule

## Day 1 Sunday, 28 February 2010

0730 – 0800	Registration and Breakfast (Venue: <b>Prince Salman Auditorium</b> )
<b>LECTURE SESSIONS</b> (Venue: <i>Research Centre Room # 304</i> )	
0800 – 0845	<b>Introduction to Radiological Dosimetry</b> Presenter: <i>Claire-Louise. Chapple, PhD</i>
0845 – 0930	<b>Dosimetric Quantities and Units Introduction</b> Presenter: <i>Abdalla Al-Haj, PhD</i>
0930 – 1000	<b>Coffee Break</b>
1000 – 1040	<b>Dosimetry Framework, Formalism Including Uncertainties</b> Presenter: <i>Konstantinos Hourdakis, PhD</i>
1040 – 1120	<b>Dosimetry for General Radiology and Clinical Uncertainty</b> Presenter: <i>Abdalla Al-Haj, PhD</i>
1120 – 1200	<b>Selection of Instrumentation</b> Presenter: <i>Konstantinos Hourdakis, PhD</i>
1200 – 1330	<b>Lunch Break</b>
1330 – 1410	<b>Dosimetry for Fluoroscopy - Basics</b> Presenter: <i>Konstantinos Hourdakis, PhD</i>
1410 – 1450	<b>Patient Dose Audit Methods and Results</b> Presenter: <i>Claire-Louise. Chapple, PhD</i>
1450 – 1530	<b>DRL Determination</b> Presenter: <i>Ian Donald McLean, PhD</i>
1530 – 1600	<b>Coffee Break</b>
1600 – 1640	<b>Phantoms, Dose and Image Quality</b> Presenter: <i>Ian Donald McLean, PhD</i>
1640 – 1720	Tutorial [Choose 1] <i>Konstantinos Hourdakis, PhD</i> <i>Uncertainty in Instrumentation Measurement</i> <i>Claire-Louise. Chapple, PhD</i> <i>Uncertainty in Clinical Measurement</i>



## Activity Schedule

**Day 2**  
**Monday, 01 March 2010**

### LECTURE SESSIONS

*(Venue: Research Centre Room # 304)*

0800 – 0845	<b>Dosimetry in Interventional Radiology</b> Presenter: <i>Abdalla Al-Haj, PhD</i>
0845 – 0930	<b>Calibration at an SSDL Facility</b> Presenter: <i>Konstantinos Hourdakis, PhD</i>
0930 – 1000	<b>Coffee Break</b>
1000 – 1200	<b>ICRM Plenary Session 3</b>
1200 – 1330	<b>Lunch Break</b>
1330 – 1410	<b>Dosimetry for CT #1: Basic Dosimetry</b> Presenter: <i>Claire-Louise. Chapple, PhD</i>
1410 – 1450	<b>Calibration of KAP Meters and CT Chambers</b> Presenter: <i>Konstantinos Hourdakis, PhD</i>
1500 – 1530	<b>ICRM RRPO Lecture 4: Radiation Protection in Pediatric Radiology</b> Presenter: <i>Claire-Louise. Chapple, PhD</i>
1530 – 1600	<b>Coffee Break</b>
1600 – 1730	<b>ICRM Parallel Sessions Session 5 B: Innovative Approaches in Diagnostic Imaging</b>

## Activity Schedule

**Day 3**  
**Tuesday, 02 March 2010**

### LECTURE SESSIONS

(Venue: Research Centre Room # 304)

0800 – 0845	<b>Dosimetry for CT #2: Practical Experiences</b> Presenter: <i>Claire-Louise Chapple, PhD</i>
0845 – 0930	<b>X ray Spectra and Beam Qualities</b> Presenter: <i>Ian Donald McLean, PhD</i>
0930 – 1000	<b>Coffee Break</b>
1000 – 1040	<b>Dosimetry for Mammography</b> Presenter: <i>Ian Donald McLean, PhD</i>
1040 – 1120	<b>Fetal Dose and Pregnancy Policy</b> Presenter: <i>Ian Donald McLean, PhD</i>
1120 – 1200	<b>ICRM Plenary Session 7</b>
1200 – 1330	<b>Lunch Break</b>
1330 – 1450	<b>ICRM DI Lecture 6: Assessment and Radiation Dose Reduction in Pediatric CT</b> Presenter: <i>Claire-Louise Chapple, PhD</i>
1450 – 1530	<b>Dosimetry for Dental Radiography</b> Presenter: <i>Konstantinos Hourdakos, PhD</i>
1530 – 1600	<b>Coffee Break</b>
1600 – 1640	<b>Tutorial 2</b> <b>GafChromic Film Dosimetry in Diagnostic Radiology</b> Presenter: <i>Slobodan Devic, PhD</i>
1640—1720	<b>ICRM Parallel Abstracts Session 9B</b>

## Activity Schedule

**Day 4**  
**Wednesday, 03 March 2010**

### LECTURE SESSIONS

*(Venue: Research Centre Room # 304)*

**0800 – 0845** **Effective Dose and its Limitations**  
Presenter: *Konstantinos Hourdakis, PhD*

**0845 – 0915** **Optimization**  
Presenter: *Ian Donald McLean, PhD*

**0915 – 1000** **Test**

**1000 – 1200**

**ICRM**  
**Plenary Session 11**

**1200 – 1330** **Lunch Break**

**1330 – 1720**

**Practical Session 1**  
[Choose clinical or computer]

**Clinical:** CT Dosimetry Practice; Calibration of KAP Meter; Mammography Dosimetry Practice

**Computer:** Beam Qualities, Critical Organ Dose, CT Dose

## Activity Schedule

**Day 5**  
**Thursday, 04 March 2010**

**0800 – 1200**

**Practical Session 2**  
[Choose clinical or computer]

**Clinical:** CT Dosimetry Practice; Calibration of KAP Meter; Mammography Dosimetry Practice

**Computer:** Beam Qualities, Critical Organ Dose, CT Dose

**1200 – 1330**

**Lunch Break**

**1330 – 1410**

**Concluding Remarks**  
**Test Results**  
**Closing Ceremony**

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## Acknowledgement

We are thankful for the continued support from the King Faisal Specialist Hospital & Research Centre management especially for providing all the necessary resources for this training activity:

- Dr. Qasim Al-Qasabi, Chief Executive Director, KFSH&RC
- Dr. Othman Bin Ahmed, Deputy Chief Executive Director, KFSH&RC
- Dr. Sultan Al-Sedairy, Executive Director, Research Centre
- Dr. Futwan Al-Mohanna, Deputy Executive Director, Research Centre

Our sincere appreciation also goes to our co-organizers of this event for their encouragement and assistance:

- International Atomic Energy Agency (IAEA)
- King Abdulaziz City for Science and Technology (KACST)

## Appreciation

**Also, we are grateful to the following departments of the King Faisal Specialist Hospital & Research Centre in Riyadh for their valuable support:**

Academic and Training Affairs  
Administrative Affairs  
Audiovisual Services  
Chairman of the Board of Directors (KFSH&RC)  
Chief Executive Director (KFSH&RC)  
Contracts Management  
Employee Social Club  
Financial Affairs  
Housekeeping Services (Environmental Services)  
Information and Technology Affairs  
Manpower Services  
Media Affairs  
Medical Affairs  
Medical Imaging Services  
Neurosciences Department  
Oncology Center  
Personnel Department  
Photographics Department  
Projects Management  
Public Relations Department (Community Services)  
Radiation Oncology  
Radiation Therapy Department  
Reprographics - Print Shop  
Research Centre - Administration  
Research Centre - Biomedical Physics Department  
Research Centre - Cyclotron & Radiopharmaceuticals Dept.  
Research Centre - Executive Director  
Research Centre - Deputy Executive Director  
Research Centre - Logistics and Facilities Management Office  
Research Centre - Scientific Information Office  
Research Centre - Training and Education Office  
Safety, Security & Communications Department  
Transportation Services  
Travel Section  
Visa Section  
Utilities and Maintenance Department

## **On-site Registration**

All participants are requested to sign in and pick up training course material at the Registration/Information Desk located at the Prince Salman Auditorium Foyer, Research Centre Building, KFSH&RC.

## **Accreditation**

This training course activity is accredited by the International Atomic Energy Agency (IAEA), Vienna, Austria. In addition, the KFSH&RC will seek approval by the Saudi Commission for Health Specialties and the American Academy of Continuing Medical Education for Continuing Medical Education (CME) credit hours.

## **Certificate and Attendance**

Certificates of Attendance will be provided by IAEA. These will be awarded to participants during the training course closing ceremony.

## **Accommodation and Transportation**

Hotel reservations will be arranged by the Biomedical Physics Department of the King Faisal Specialist Hospital & Research Centre for non-local speakers and participants. The Department will advise of hotel and transportation details.

## **Visa Processing**

Non-local lecturers and participants will require a visa to visit the Kingdom of Saudi Arabia. In such cases, the King Abdulaziz City for Science and Technology and King Faisal Specialist Hospital and Research Centre will assist IAEA approved lecturers and participants respectively in the visa issuance process.

## Course Organizers



مستشفى الملك فيصل التخصصي ومركز الأبحاث  
King Faisal Specialist Hospital & Research Centre  
مؤسسة عامة - Gen. Org.

**King Faisal Specialist Hospital and Research Centre,  
(KFSH&RC), Riyadh, Saudi Arabia**



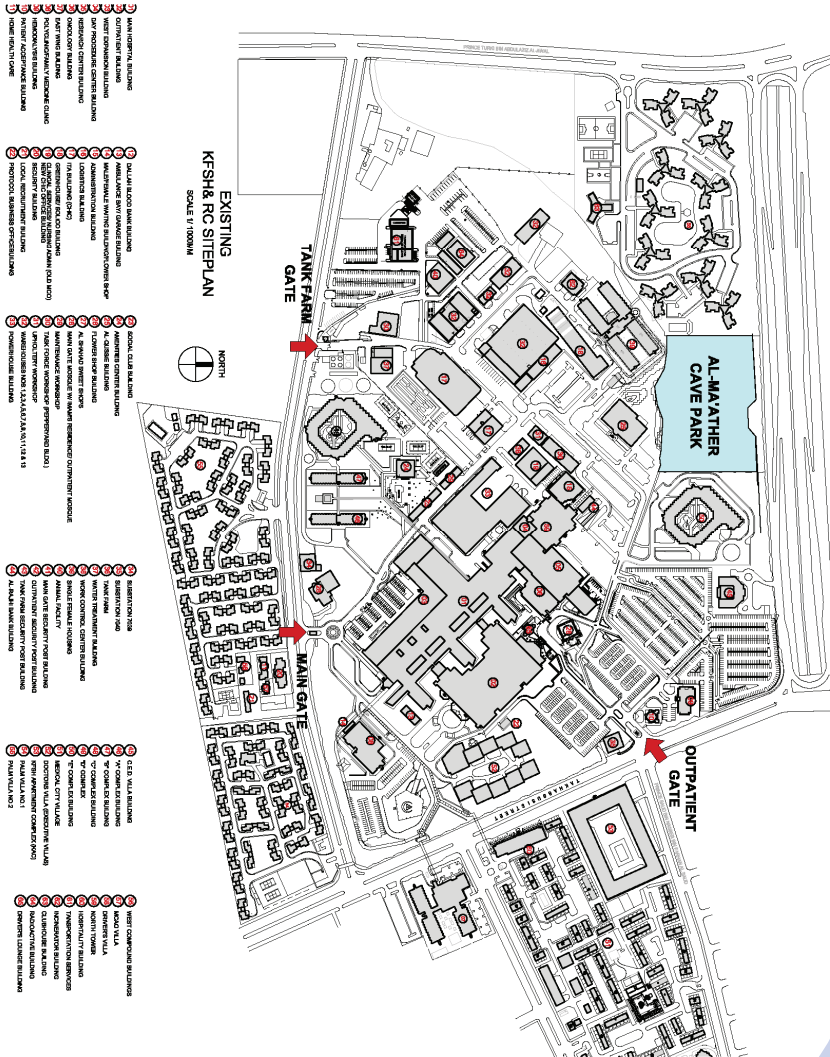
**International Atomic Energy Agency (IAEA)  
Vienna, Austria**



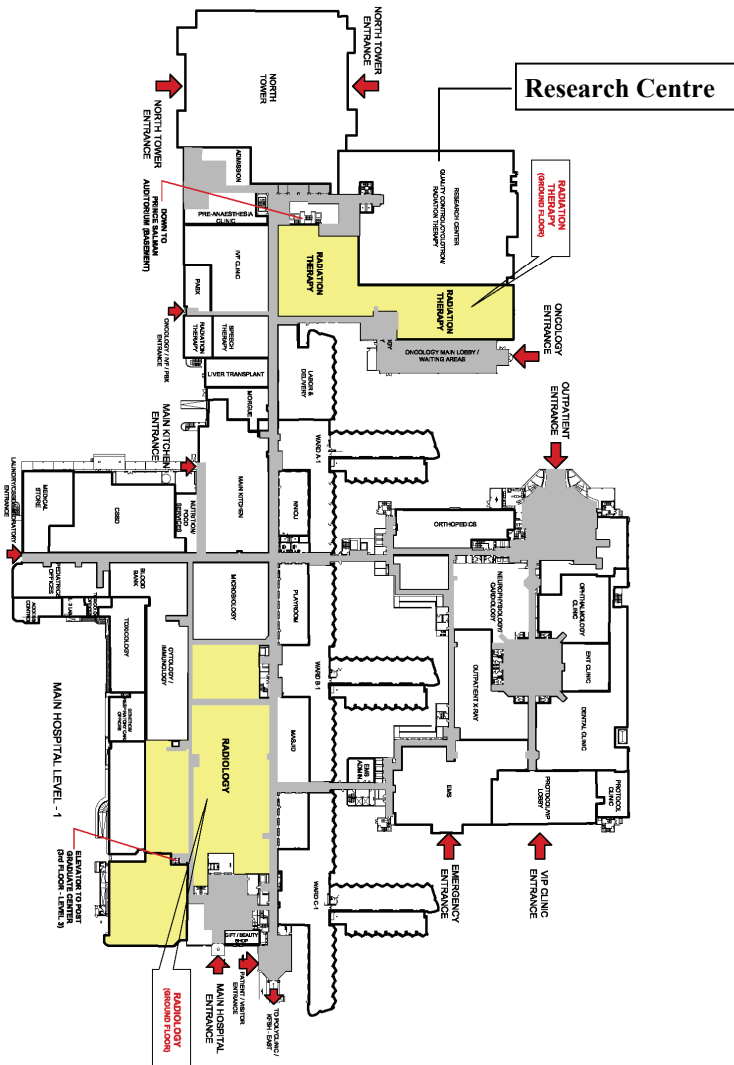
مدينة الملك عبدالعزيز  
للعلم والتكنولوجيا KACST

**King Abdulaziz City for Science and Technology  
Riyadh, Saudi Arabia**

# Venue Maps



# Venue Maps



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