

# Opening Ceremony

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Sunday, 09 October 2011

Venue: Research Centre Room #304

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1000—1030

## Recitation of the Holy Quran

*Dr. Adnan Al Hebshi*

Consultant,  
Radiation Oncology, Oncology Centre  
King Faisal Specialist Hospital & Research Centre  
Riyadh, Saudi Arabia

## Opening Remarks

*Dr. Belal Moftah*

Director, IAEA Course 2011  
Chairman, Biomedical Physics Department  
King Faisal Specialist Hospital & Research Centre  
Riyadh , Saudi Arabia

## IAEA Course Coordinator Address

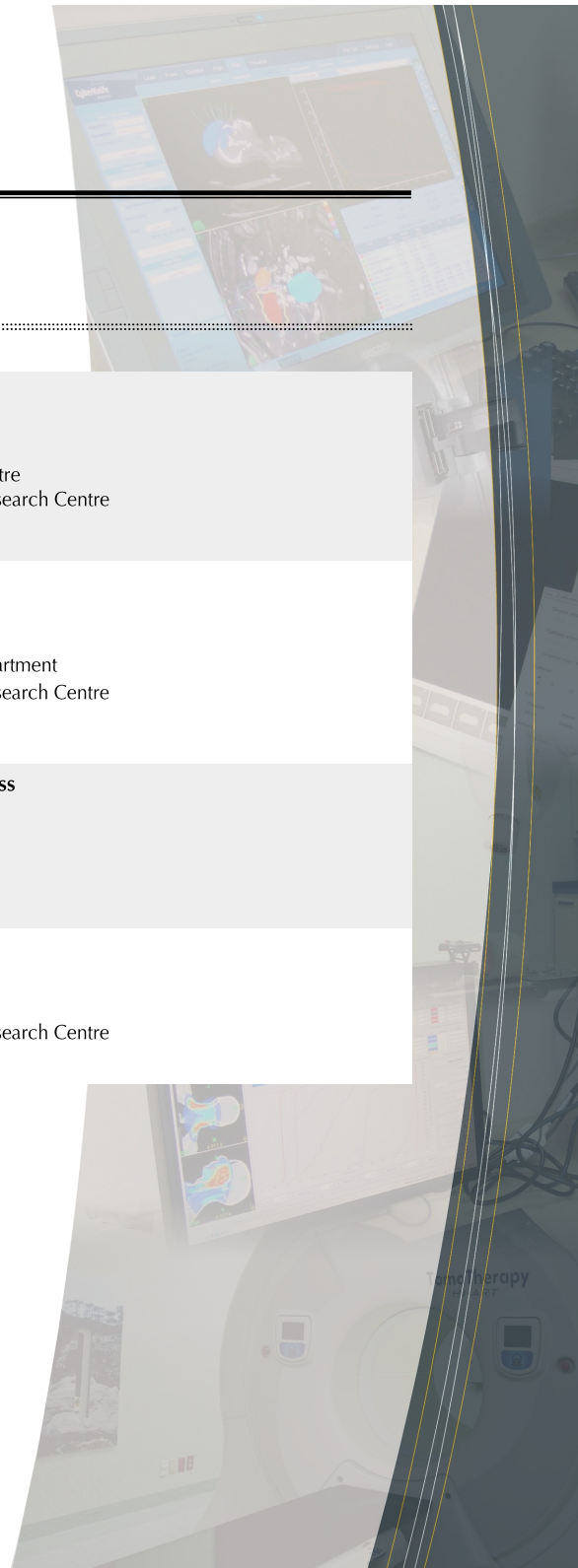
*Dr. Jake van Dyk*

Professor Emeritus  
University of Western Ontario  
Canada

## Executive Director Address

*Dr. Sultan T. Al-Sedairy*

Executive Director  
King Faisal Specialist Hospital & Research Centre  
Riyadh , Saudi Arabia



## Activity Schedule

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### Day 1

Sunday, 09 October 2011

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<b>0730 — 0830</b>	<b>Registration and Breakfast</b> <i>(Venue: Research Centre Room #304)</i>
<b>Lecture Sessions</b> <i>(Venue: Research Centre Room #304)</i>	
<b>0830 — 0900</b>	<b>Course Overview and Self-Introductions of Participants</b>
<b>0900 — 1000</b>	<b>Imaging for Radiation Treatment Planning I:</b> General Overview with Emphasis on ICRU Concepts <i>Lecturer: Jake Van Dyk, Ph.D., FCCPM</i>
<b>1000 — 1030</b>	<b>Opening Ceremony &amp; Coffee Break</b>
<b>1030 — 1110</b>	<b>Imaging for Radiation Treatment Planning II:</b> <b>CT: Principles &amp; Applications</b> <i>Lecturer: Jatinder Palta, Ph.D., FAAPM</i>
<b>1110 — 1150</b>	<b>Imaging for Radiation Treatment Planning II:</b> <b>MRI: Principles &amp; Applications</b> <i>Lecturer: Paul Keall, Ph.D., FAAPM</i>
<b>1150 — 1230</b>	<b>Imaging for Radiation Treatment Planning II:</b> <b>Nuclear Medicine, PET, SPECT</b> <i>Lecturer: M. Gary Sayed, Ph.D., FACNM</i>
<b>1230 — 1400</b>	<b>Lunch Break</b>
<b>1400 — 1530</b>	<b>Setup and Simulation:</b> Patient Immobilization for Precision RT, Body Frames, Visual Patient Tracking, Respiratory Management <i>Lecturer: Wassim Jalbout, Ph.D., DABMP</i>
<b>1530 — 1600</b>	<b>Coffee Break</b>
<b>1600 — 1800</b>	<b>Treatment Delivery I:</b> IMRT Systems and QA. IMRT, MLC, Record and Verify, System Design & QA <i>Lecturer: Jatinder Palta, Ph.D., FAAPM</i>

-- End of Session --

## Activity Schedule

### Day 2

Monday, 10 October 2011

#### Lecture Sessions

(Venue: Research Centre Room #304)

<b>0830 — 1000</b>	<b>Treatment Planning I:</b> TPS Acquisition, Acceptance, Commissioning & QA <i>Lecturer: Jake Van Dyk, Ph.D., FCCPM</i>
<b>1000 — 1030</b>	<b>Coffee Break</b>
<b>1030 — 1130</b>	<b>Treatment Planning II:</b> Treatment Plan Optimization, Evaluation Metrics, Radiobiological Modeling, Dose-Volume Constraints <i>Lecturer: Wassim Jalbout, Ph.D., DABMP</i>
<b>1130 — 1230</b>	<b>Treatment Planning II:</b> Treatment Plan Optimization, Evaluation Metrics, Radiobiological Modeling, Dose-Volume Constraints <i>Lecturer: Paul Keall, Ph.D., FAAPM</i>
<b>1230 — 1400</b>	<b>Lunch Break</b>
<b>1400 — 1530</b>	<b>Treatment Planning III:</b> Patient Specific QA. Assessment of Plan Acceptability, Transfer of Plan to Linac, R&V System <i>Lecturer: Belal Mofteh, Ph.D., FCCPM</i>
<b>1530 — 1600</b>	<b>Coffee Break</b>
<b>1600 — 1800</b>	<b>Practical Session I</b> TPS: 3D Pelvis General <i>Instructor: Belal Mofteh, Ph.D., FCCPM</i> <i>Group I: Manal Awidah, B.Sc.</i> <i>Group II: Lorcel Ericka Venturina, B.Sc.</i>

--- End of Session ---

## Activity Schedule

Day 3

Tuesday, 11 October 2011

### Lecture Sessions

(Venue: Oncology Conference Hall)

- 0830 — 0915**    **Treatment Delivery II:**  
Patient Specific QA for IMRT:  
Dosimetry, EPID, and Cone Beam CT, MVCT  
*Lecturer: Wassim Jalbout, Ph.D., DABMP*
- 0915 — 1000**    Dosimetry, EPID, MV Imaging  
*Lecturer: Jatinder Palta, Ph.D., FAAPM*

### Lecture Sessions

(Venue: Research Centre Room #304)

- 1000 — 1030**    Coffee Break
- 10:30 — 12:30**    **Treatment Planning IV:** Monte Carlo Calculations and Advanced  
Planning: Monte Carlo, Current Status, Speed and Accuracy  
*Lecturer: Paul Keall, Ph.D., FAAPM*
- 1230 — 1400**    Lunch Break
- 1400 — 1530**    **Treatment Delivery III:**  
IGRT, Inter and Intra Fractional Motion Management  
*Lecturer: Jatinder Palta, Ph.D., FAAPM*  
*Lecturer: Paul Keall, Ph.D., FAAPM*
- 1530 — 1600**    Coffee Break
- 1600 — 1800**    **Practical Session II**  
TPS: 3D, FinF, Breast  
*Group I: Ghadeer Nazer, B.Sc.*  
*Group II: Paula Yates, RT(T), CMD*

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## Activity Schedule

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### Day 4

Wednesday, 12 October 2011

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#### Lecture Sessions

(Venue: Radiation Physics Area, Oncology Bldg.)

<b>0830 — 0915</b>	<b>TomoTherapy:</b> What have we learned? <i>Lecturer:</i> <b>Jake Van Dyk, Ph.D. FCCPM</b>
<b>0915 — 1000</b>	<b>Tomotherapy:</b> Local Experience <i>Lecturer:</i> <b>Paula Yates, RT(T), CMD; Sameha Julie Pickford, RT(T)</b>
<b>1000 — 1030</b>	Coffee Break
<b>1030 — 1130</b>	<b>Case Studies:</b> <b>Breast</b> <i>Instructor:</i> <b>Mohammad Al-Shabanah, M.D.</b> <b>Lung; Brain</b> <i>Instructor:</i> <b>Adnan Al Hebshi, M.D.</b>
<b>1130 — 1230</b>	<i>Instructor:</i> <b>Adnan Al Hebshi, M.D.</b>
<b>1230 — 1400</b>	Lunch Break
<b>1400 — 1530</b>	<b>Practical Sessions III</b> <b>TPS &amp; IGRT: IMRT/RA</b> <i>Instructors:</i> <b>Belal Mofteh, Ph.D., FCCPM; Ahmed Nobah, M.Sc.</b>
<b>1530 — 1600</b>	Coffee Break
<b>1600 — 1800</b>	<b>Practical Sessions IV</b> <b>PSQA</b> <i>Group I:</i> <b>Abdullah Al-Kafi, M.Sc.</b> <i>Group II:</i> <b>Ahmed Nobah, M.Sc.</b>

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## Activity Schedule

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Day 5

Thursday, 13 October 2011

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### Practical Sessions

(Venue: Radiation Physics Area, Oncology Bldg.)

<b>0830 — 0930</b>	<b>Practical Sessions V</b> TPS & IGRT: Tomo <i>Instructors: Omar Chibani, Ph.D.; Zeinab Hassan, Ph.D.; Osama Hassad, B.Sc.</i>
<b>0930 — 1030</b>	<b>Practical Sessions VI</b> TPS & IGRT: Cyberknife <i>Instructors: Jason Yan, M.Sc.; Abrar Hussain, Ph.D., CMD</i>
<b>1030 — 1100</b>	<b>Coffee Break</b>
<b>1100 — 1130</b>	<b>Review of the week:</b> Participants feedback <i>All speakers and course directors</i>
<b>1130 — 1230</b>	<b>Examination</b>
<b>1230 — 1330</b>	<b>Lunch Break</b>
<b>1330 — 1500</b>	<b>Final questions/ discussion</b> <i>All speakers and course directors</i> <b>Closing Ceremony</b>