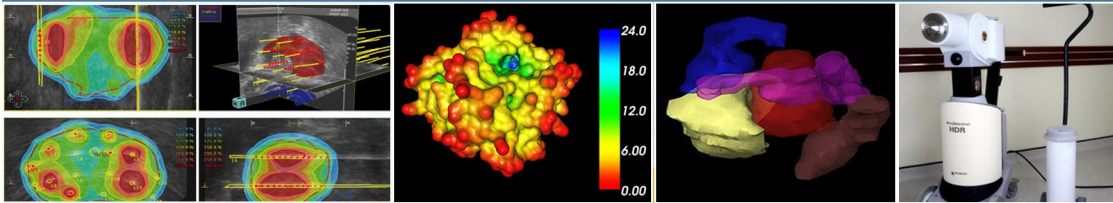


## IAEA/KFSH&RC Regional Training Course on Medical Physics Aspects in LOW AND HIGH DOSE RATE BRACHYTHERAPY

Venue: King Faisal Specialist Hospital & Research Centre, Riyadh, Kingdom of Saudi Arabia  
26 February - 01 March 2012



## PROGRAM SCHEDULE

### Speakers

Slobodan Devic, Ph.D., FCCPM  
 Tharmarnadar Ganesh, Ph.D.  
 Zeinab Hassan, Ph.D.  
 Wassim Jalbout, Ph.D., DABMP  
 Rana Mahmoud, M.D.  
 Belal Mofteh, Ph.D., FCCPM  
 Ghazi ALSbeih, M.D., Ph.D.  
 Jack Venselaar, Ph.D.  
 Shada Wadi-Ramahi, Ph.D., DABR  
 Terry Yoshizumi, PhD, FAAPM

### Course Director

Belal Mofteh, Ph.D., FCCPM  
 Chairman, ICRM2012  
 Chairman, Biomedical Physics Department  
 King Faisal Specialist Hospital & Research Centre

### Hosted by:

Biomedical Physics Department  
 King Faisal Specialist Hospital &  
 Research Centre, Riyadh, Saudi Arabia

### Sponsored by:

International Atomic Energy Agency

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### Endorsed by:

Academic and Training Affairs  
 Training and Education Office  
 Research Centre



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## Course Director Welcome Address

Welcome to the **“IAEA Regional Training Course on Medical Physics Aspects in Low and High Dose Rate Brachytherapy”**, hosted by King Faisal Specialist Hospital & Research Centre (KFSH&RC) in Riyadh, Saudi Arabia, from 26 February to 01 March 2012.

It is indeed a great opportunity to hold this year’s International Atomic Energy Agency (IAEA) training course in conjunction with the ICRM2012, an international conference for which KFSH&RC, IAEA, WHO, SFDA and NIRS are co-organizers. The scientific program of both events will certainly provide 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.

Addressing medical physics issues under the IAEA ARASIA Technical Cooperation projects brings us delight in being able to extend our support through the expertise available at KFSH&RC.

At KFSH&RC, we have a strong tradition of leadership in supporting educational initiatives not only in the field of radiotherapy physics but also in various fields of science. In this institution, we are privileged to have the state-of-the-art radiation therapy equipment as well as active and competent radiotherapy and medical physics team that strives to contribute to different educational developments in support of high quality health care.

The continued fruitful collaboration between IAEA & KFSH&RC has been an inspiration in the quest of propagating educational opportunities in the enhancement of knowledge of various healthcare professionals in the region.

I would like to take this opportunity to thank the designated IAEA and KFSH&RC faculty members for their invaluable help in the effective and smooth implementation of this training course.

Once again, welcome to all participants. I wish each and everyone of you an enjoyable stay at KFSH&RC!

With best regards,

A handwritten signature in black ink, enclosed in an oval shape. The signature appears to be 'Belal Moftah'.

**Belal Moftah, PhD, FCCPM**  
Course Director, IAEA Course  
Chairman, Biomedical Physics Department  
Head, Radiation Physics  
King Faisal Specialist Hospital & Research Centre  
Riyadh, Saudi Arabia

# Course Description


The significant advances in radiotherapy techniques are rapidly modernizing the planning and delivery of radiation therapy in the treatment of cancer. This IAEA continuing education program offers the opportunity to acquire the skills, knowledge and strategies that will help successfully apply and implement the principles of brachytherapy physics into radiotherapy practice. The activities include practical topics and hands-on workshop sessions for the effective treatment of cancer patients and will cover didactic lectures and practical exercises on the following subjects:

## **Course:**

- L1: Introduction to Brachytherapy
- L2: Radiobiology of Low and High Dose Rate Brachytherapy
- L3: Clinical Aspects and Indications for Brachytherapy
- L4: Sources and Equipment
- L5: Calibration of Sources
- L6: Conventional TPS Calculations
- L7: QA Procedures for HDR/LDR
- L8: Dose Calculations- TG 43
- L9: Treatment Planning
- L10: Image Guided Brachytherapy
- L11: Acceptance Testing & Commissioning of HDR
- L12: Radiation Protection, Room Planning & Regulatory Aspects
- L13: Incidents & Accidents in Brachytherapy

## **Practical Sessions:**

- P1: QA Procedures for HDR Unit
- P2: QA Procedures for LDR Unit
- P3: Planning and Delivery of HDR Intracavitary Brachytherapy Treatment
- P4: Planning and Delivery of LDR Intracavitary Brachytherapy Treatment
- P5: HDR Source Calibration
- P6: Intraocular Brachytherapy and COMS Recommendation



## Course Objectives

This training course is aimed at helping medical physicists in the participating ARASIA communities who are or planning to be involved in the implementation and management of brachytherapy programs. The core objectives of this course constitute the following:

1. To learn the radiobiological and clinical basis of low and high dose rate brachytherapy.
2. To obtain from experts information on latest brachytherapy techniques.
3. To experience hands-on exercises on brachytherapy equipment.
4. To adopt innovative radiotherapy approaches in brachytherapy imaging and treatment planning in clinical practice.
5. To apply and implement the principles of image guidance into brachytherapy practice.

# Course Management

## Course Director:

**Belal Moftah, Ph.D., FCCPM**

Chairman, Biomedical Physics Department  
King Faisal Specialist Hospital & Research Centre  
Riyadh, Saudi Arabia

## IAEA Course Management Appointees:

**Dr. Graciela Remedios Velez**

Medical Physicist Consultant,  
Dosimetry and Medical Radiation Physics Section  
(DMRP/ NAHU)  
International Atomic Energy Agency  
Vienna, Austria

**Dr. Mahfoudh Abdullah**

Program Management Project Officer  
Division for Asia and the Pacific  
International Atomic Energy Agency  
Vienna, Austria

**Ms. Gladis Steephen-Madhavappallil**

Program Management Project Officer  
Division for Asia and the Pacific  
International Atomic Energy Agency  
Vienna, Austria



## Speakers

**Slobodan Devic, Ph.D., FCCPM**

**Assistant Professor**

Department of Medical Physics

**Medical Physicist,**

Radiation Oncology Department

McGill University Health Centre

Montréal, Québec, Canada

**Tharmarnadar Ganesh, Ph.D.**

**Senior Medical Physicist,**

Department of Radiation Oncology

King Fahad Specialist Hospital

Dammam, Saudi Arabia

**Zeinab Hassan, Ph.D.**

**Medical Physicist**

Biomedical Physics Department

King Faisal Specialist Hospital & Research Centre

Riyadh, Saudi Arabia

**Wassim Jalbout, Ph.D., DABMP**

**Clinical Medical Physicist**

Radiation Oncology Department

American University of Beirut Medical Center

Beirut, Lebanon

**Rana Mahmoud, M.D.**

**Radiation Oncologist**

Oncology Centre

King Faisal Specialist Hospital & Research Centre

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# Speakers

**Belal Mofteh, Ph.D., FCCPM**

**Chairman**

Biomedical Physics Department

**Head**, Radiation Physics Section

King Faisal Specialist Hospital & Research Centre

Riyadh, Saudi Arabia

**Ghazi AlSbeih, Ph.D., M.D.**

**Deputy Chairman / Senior Scientist,**

**Head**, Radiation Biology Section

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King Faisal Specialist Hospital & Research Centre

Riyadh, Saudi Arabia

**Jack Venselaar, Ph.D.**

**Medical Physicist**

Dept. Clin. Physics

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**Shada Wadi-Ramahi, Ph.D., DABR**

**Head**

Medical Physics Section

Radiation Oncology Department

King Hussein Cancer Center

Amman, Jordan

**Terry Yoshizumi, PhD, FAAPM**

**Professor**, Radiology and Professor of Radiation Oncology

Duke Radiation Safety Officer (RSO)

**Director**, Duke Radiation Dosimetry Laboratory (DRDL)

Duke University Medical Center (DUMC)

USA



# Activity Schedule

## Day 1

Sunday, 26 February 2012

### Lecture Sessions

(Venue: RC 304)

<b>0800 — 0845</b>	<b>Registrations, Administrative Formalities &amp; Inauguration</b>
<b>0845 — 0930</b>	<b>L1: Introduction to Brachytherapy</b> <i>Lecturer:</i> Dr. Belal Moftah
<b>0930 — 1000</b>	<b>Coffee Break</b>
<b>1000 — 1040</b>	<b>L2: Radiobiology of Low and High Dose Rate Brachytherapy</b> <i>Lecturer:</i> Dr. Ghazi AlSbeih
<b>1040 — 1120</b>	<b>L3: Clinical Aspects and Indications for Brachytherapy</b> <i>Lecturer:</i> Dr. Rana Mahmoud
<b>1120 — 1200</b>	<b>L4: Sources and Equipment</b> <i>Lecturer:</i> Dr. Jack Venselaar
<b>1200 — 1330</b>	<b>Lunch Break</b>
<b>1330 — 1410</b>	<b>L5: Calibration of Sources</b> <i>Lecturer:</i> Dr. Wassim Jalbout
<b>1410 — 1450</b>	<b>L6: Conventional TPS Calculations</b> <i>Lecturer:</i> Dr. Jack Venselaar
<b>1450 — 1530</b>	<b>L7: QA Procedures for HDR/LDR</b> <i>Lecturer:</i> Dr. Zeinab Hassan
<b>1530 — 1600</b>	<b>Coffee Break</b>
<b>1600 — 1700</b>	<b>Practical Session 1 &amp; 2 (Choose one):</b> <b>P1: QA Procedures for HDR Unit</b> <i>Coordinator:</i> Dr. Slobodan Devic, Mr. Tharmarnadar Ganesh <b>P2: QA Procedures for LDR Unit</b> <i>Coordinator:</i> Dr. Zeinab Hassan
<b>1600 — 1700</b>	<b>Practical Session 1 &amp; 2 (Choose one):</b> <b>P1: QA Procedures for HDR Unit</b> <i>Coordinator:</i> Dr. Slobodan Devic, Mr. Tharmarnadar Ganesh <b>P2: QA Procedures for LDR Unit</b> <i>Coordinator:</i> Dr. Zeinab Hassan

# Activity Schedule

## Day 2

Monday, 27 February 2012

### Lecture Sessions

(Venue: RC 304)

<b>0800 — 0845</b>	<b>L8: Dose Calculations- TG 43</b> <i>Lecturer: Dr. Shada Wadi-Ramahi</i>
<b>0845 — 0930</b>	<b>L9: Treatment Planning</b> <i>Lecturer: Dr. Wassim Jalbout</i>
<b>0930 — 1000</b>	Coffee Break
<b>1000 — 1200</b>	ICRM2012 PLENARY SESSIONS
<b>1200 — 1330</b>	Lunch Break
<b>1300 — 1530</b>	ICRM2012 PARALLEL SESSIONS
<b>1530 — 1600</b>	Coffee Break
<b>1600 — 1800</b>	ICRM2012 PANEL DISCUSSION "Innovative Approaches in Radiotherapy"

-- End of Session --

# Activity Schedule

**Day 3**  
**Tuesday, 28 February 2012**

**Lecture Sessions**

*(Venue: RC 304)*

<b>0800 — 0845</b>	<b>L10: Image Guided Brachytherapy</b> <i>Lecturer: Dr. Slobodan Devic</i>
<b>0845 — 0930</b>	<b>L11: Acceptance Testing &amp; Commissioning of HDR</b> <i>Lecturer: Dr. Jack Venselaar</i>
<b>0930 — 1000</b>	Coffee Break
<b>1000 — 1200</b>	ICRM2012 PLENARY SESSIONS
<b>1200 — 1330</b>	Lunch Break
<b>1330 — 1530</b>	ICRM2012 PARALLEL SESSIONS
<b>1530 — 1600</b>	Coffee Break
<b>1330 — 1530</b>	ICRM2012 Abstracts Sessions and "Who's Who at ICRM2012" Session

-- End of Session --

# Activity Schedule

**Day 4**  
**Wednesday, 29 February 2012**

## Lecture Sessions

(Venue: RC 304)

<b>0800 — 0845</b>	<b>L12: Radiation Protection, Room Planning &amp; Regulatory Aspects</b> <i>Lecturer:</i> Dr. Tharmarnadar Ganesh
<b>0845 — 0930</b>	<b>L13: Incidents &amp; Accidents in Brachytherapy</b> <i>Lecturer:</i> Dr. Jack Venselaar
<b>1200 — 1330</b>	Coffee Break
<b>1000 — 1200</b>	ICRM2012 PLENARY SESSIONS
<b>1200 — 1330</b>	Lunch Break
<b>1600 — 1800</b>	<b>Practical Session 3 &amp; 4 (Choose one):</b> <b>P3: Planning and Delivery of HDR Intracavitary Brachytherapy Treatment</b> <i>Coordinator:</i> Dr. Zeinab Hassan, Ms. Hind Al-Selham <b>P4: Planning and Delivery of LDR Intracavitary Brachytherapy Treatment</b> <i>Coordinator:</i> Mr. Umar Maganda Mwidu
<b>1530 — 1600</b>	Coffee Break
<b>1600 — 1800</b>	<b>Practical Session 4 &amp; 3 (Choose one):</b> <b>P3: Planning and Delivery of HDR Intracavitary Brachytherapy Treatment</b> <i>Coordinator:</i> Dr. Zeinab Hassan, Ms. Hind Al-Selham <b>P4: Planning and Delivery of LDR Intracavitary Brachytherapy Treatment</b> <i>Coordinator:</i> Mr. Umar Maganda Mwidu

-- End of Session --

## Activity Schedule

**Day 5**  
**Thursday, 01 March 2012**

### Lecture Sessions

*(Venue: RC 304)*

<b>0800 — 0930</b>	<b>Practical Session 5 &amp; 6 (Choose one):</b> <b>P5: HDR Source Calibration</b> <i>Lecturer: Dr. Zeinab Hassan, Ms. Hind Al-Selham</i> <b>P6: Intraocular Brachytherapy and COMS Recommendation</b> <i>Lecturer: Dr. Shada Wadi-Ramahi</i>
<b>0930 — 1000</b>	Coffee Break
<b>1000 — 1200</b>	<b>Practical Session 6 &amp; 5 (Choose one):</b> <b>P5: HDR Source Calibration</b> <i>Lecturer: Dr. Zeinab Hassan, Ms. Hind Al-Selham</i> <b>P6: Intraocular Brachytherapy and COMS Recommendation</b> <i>Lecturer: Dr. Shada Wadi-Ramahi</i>
<b>1200 — 1330</b>	Lunch Break
<b>1330 — 1450</b>	<b>General Distribution, Course Evaluation, Concluding Remarks, Delivery of Certificates and Closing Ceremony</b>

-- End of Session --

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## Acknowledgement

We would like to take this opportunity to acknowledge the continued support from the International Atomic Energy Agency (IAEA) and King Faisal Specialist Hospital & Research Centre (KFSH&RC) administration especially for providing all the necessary resources for this training activity.

Also, we thank those at the KFSH&RC who have provided assistance in arrangements and logistics necessary to host this training course, especially the Research Centre Administration, Training & Education Office, Scientific Information Office, Academic and Training Affairs, Administrative and Financial Services, Audiovisual Services, Housekeeping Services, Safety, Security and Communications, Information and Technology Affairs, Transportation Services, Photographics Department, Manpower Services (Visa Section), Public Relations, Radiation Oncology, Radiation Therapy, Reprographics Department, and the Biomedical Physics Department staff for their efforts and hard work in completing all preparations necessary for this program activity.



## On-site Registration

All participants are requested to sign in and pick up training course material at the Registration/Information Desk in RC Room #304, Research Centre Building, KFSH&RC, Riyadh.

## Certificate of 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 lecturers and participants. The Department will advise of hotel and local transportation details.

## Visa Processing

Non-local lecturers and participants will require a visa to visit the Kingdom of Saudi Arabia. The King Faisal Specialist Hospital and Research Centre will assist IAEA designate lecturers and participants in the visa issuance process.

## Course Organizers



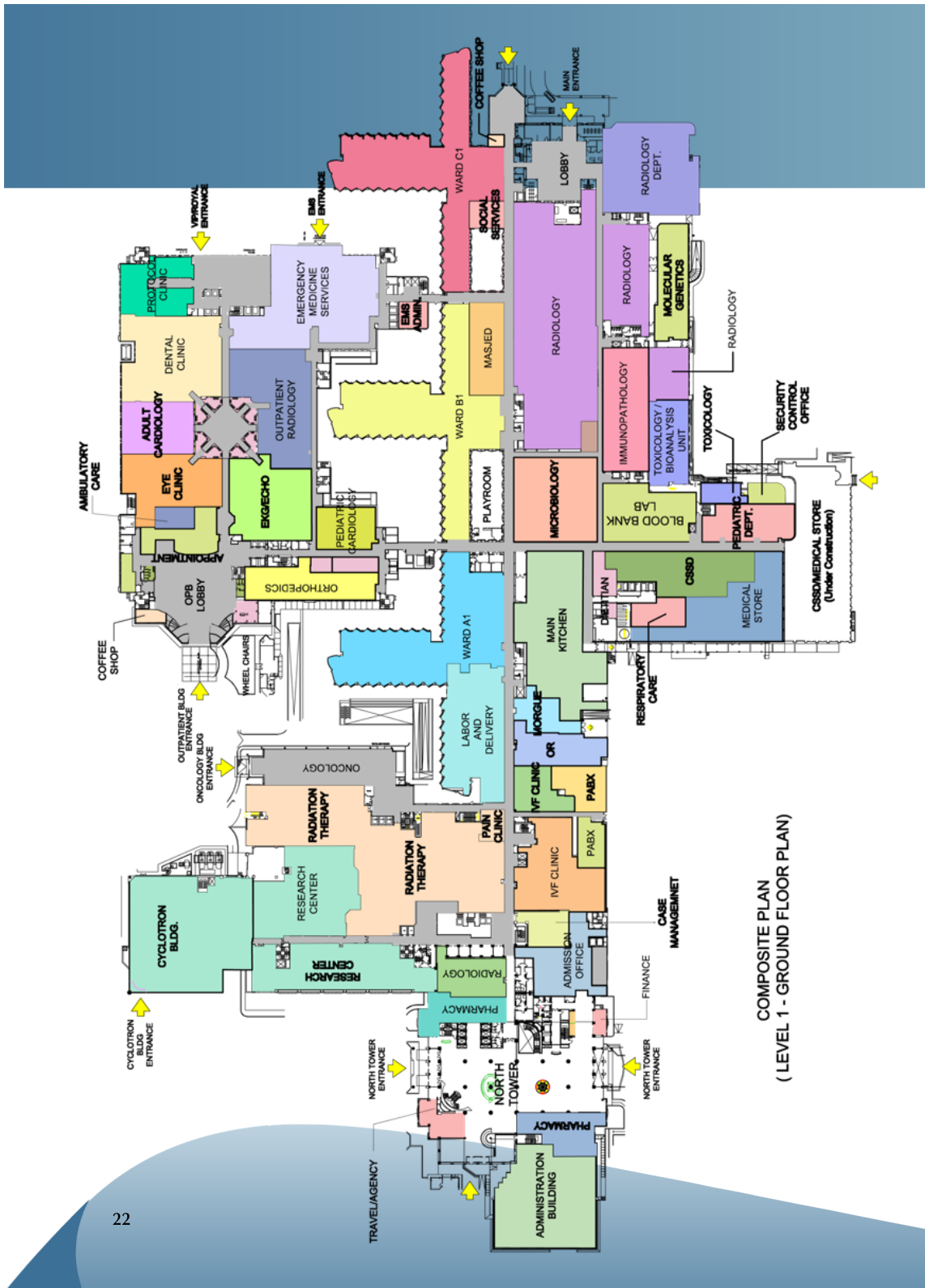
مستشفى الملك فيصل التخصصي ومركز الأبحاث  
King Faisal Specialist Hospital & Research Centre  
Gen. Org. مؤسسة عامة

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

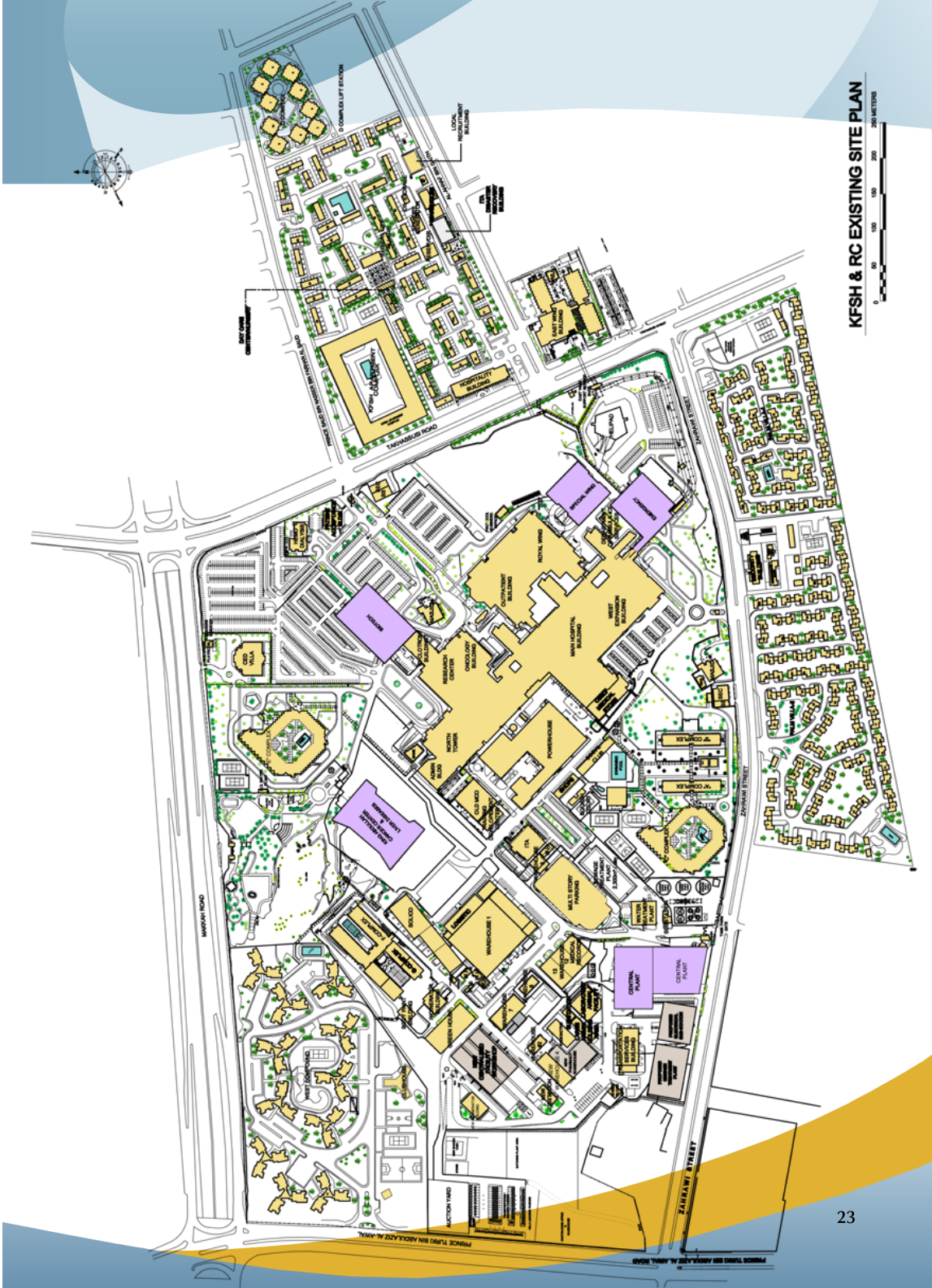


**IAEA**

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



COMPOSITE PLAN  
(LEVEL 1 - GROUND FLOOR PLAN)



KF5H & RC EXISTING SITE PLAN













