

# Scientific Program

## 11<sup>th</sup> SESAME Users Meeting 20 – 22 November, 2013

<b>1<sup>st</sup> Day (Wednesday) November 20, 2013</b>	08:30 – 10:00	Registration
	10:00 – 10:30	Opening Session
	10:30 – 11:00	<b>Coffee Break</b>
	11:00 – 11:30	Scientific Program of SESAME – Scientific Director
	11:30 – 12:00	Status of the Machine – Technical Director
	12:00 – 12:15	IMAN1 Project – Zaid Abudayyeh
	12:30 – 13:30	<b>Lunch Break (Days Inn, Hosted by Arab Potash Company)</b>
	13:30 – 14:10	The Canadian Light Source: Infrared Spectroscopy and Beyond.  <i>Thomas Ellis</i>
	14:10 – 14:50	Infrared micro-spectroscopy for the analysis of cells and tissue: Is there a role for a synchrotron?  <i>Peter Gardner</i>
	14:50 – 15:30	Synchrotron radiotherapy from the medical physics point of view  <i>Immaculada Martínez-Rovira</i>
	15:30 – 16:00	<b>Coffee Break + Poster Session</b>
	16:00 – 16:40	From Structure to Function: contribution of Synchrotron Spectro-Microscopy Methods to Life Science.  <i>Diane madeleine Eichert</i>
	16:40 - 17:20	Synchrotron light shed on the provenience of the Dead Sea scrolls: Does it need a nuclear aid?  <i>Jan Gunneweg</i>
	17:20 – 18:00	<b>LinkSCEEM Project</b> LinkSCEEM-2: A computational resource for the development of Computational Sciences in the Eastern Mediterranean.  <i>Jens Wiegand</i>
1930 – 2100	<b>Dinner (Aqel Restaurant, Hosted by SESAME)</b>	

<b>Parallel Session</b>		
<b>2<sup>nd</sup> Day (Thursday) November 21, 2013</b>	09:00 – 13:00	Workshop on IR Workshop on XRF /XAFS <del>Workshop on PX (cancelled)</del> <b>COFFEE BREAK @ 10:30</b>
	13:00 – 14:00	<b>Lunch Break (Days Inn, Hosted by SESAME)</b>
	14:00 – 14:25	Introduction to synchrotron and its application (APXPS) to study hetero junction and SMSI effect  <i>Naila Jabeen</i>
	14:25 – 14:50	Ultra high resolution crystal structure of the protein Cholesterol oxidase  <i>Maqsood Ahmed</i>
	14:50 – 15:15	Hydrothermal Synthesis and Characterization of Nanocrystalline Transition Metal Oxides (Co <sub>3</sub> O <sub>4</sub> and CuO)  <i>Sumaira Naz</i>
	15:15 – 15:40	Characterisation and Reverse Engineering of Historical Original Mortar of Qasr Tuba, Jordan Desert Castels  <i>Ayoub Mohammad Ghrair</i>
	15:40 – 16:05	Phosphorus removal from wastewater utilizing Phosphate Mine Wastes at Ruseifa city - Jordan  <i>Da'san M. M. Jaradat</i>
	16:05 – 16:30	Development of Microstructure in uniaxially-drawn PET during Annealing  <i>Ahmed I. Abou-Kandil</i>
	16:30 – 17:00	Pan Arab Research and Education e-Infrastructures  <i>Yousef Torman</i>
	17:00 – 18:00	<b>Coffee Break + Poster Session</b>
	18:00 – 19:00	Users' Executive Committee (UEC)
	19:30 – 21:00	<b>Dinner (Days Inn, Hosted by Jordan Atomic Energy Commission)</b>
<b>3<sup>rd</sup> Day (Friday) November 22, 2013</b>	<b>0900 – 12:00</b>	<b>Visit to SESAME Site</b>
	<i>The bus will Depart from Days Inn hotel at 8:00am sharp. **</i>	
	<b>End of Users Meeting</b>	

11 <sup>th</sup> SESAME Users meeting	
<i>IR - Workshop</i>	
09:00 – 09:10	<p>Welcome and introduction</p> <p style="text-align: right;"><i>Ibraheem Yousef</i></p>
09:10 – 09:30	<p>FTIR Microspectroscopy at SESAME</p> <p style="text-align: right;"><i>Ibraheem Yousef</i></p>
09:30 – 10:00	<p><b>So You Think You Need a Synchrotron: How to Write a Successful Proposal for Synchrotron IR Experiments.</b></p> <p style="text-align: right;"><i>Thomas Ellis</i></p>
10:00 – 10:30	<p><b>Transflection-mode infrared microscopy: A valuable sampling methodology or a flawed technique? The answer depends on the question.</b></p> <p style="text-align: right;"><i>Peter Gardner</i></p>
10:30 – 11:00	<b>Coffee Break</b>
11:00 – 11:20	<p><b>FTIR as a tool to understand the biological response of tumoral cells after Minibeam Radiation Therapy (MBRT) irradiations in combination with chemotherapy drugs.</b></p> <p style="text-align: right;"><i>Immaculada Martinez-Rovira</i></p>
11:20 – 11:40	<p><b>Alternative diagnostic method for breast malignancy based on bio-molecular changes in malignant tissues using IR- Micro Spectroscopy: A Preliminary Study.</b></p> <p style="text-align: right;"><i>Sohaila Rehman</i></p>
11:40- 12:00	<p><b>Combined DFT, IR Deconvolution Analysis for Structural Investigation of Copper –doped Lead Borate Glasses.</b></p> <p style="text-align: right;"><i>Amr Abdelghany</i></p>
12:00 – 13:00	<b>Round table discussion</b>
13:00 – 14:00	<b>Lunch Break (Days Inn, Hosted by SESAME)</b>

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*XRF/XAFS - Workshop*

09:00 – 09:10	Welcome and introduction <i>Messaoud Harfouche</i>
09:10 – 10:50	X-Ray Fluorescence: a primer <i>Diane Eichert</i>
10:50 – 10:30	Introduction to the X-ray Absorption Fine Structure (XAFS) techniques <i>Messaoud Harfouche</i>
10:30 – 11:00	Coffee Break
11:00 – 11:30	Characterization of fractionated atmospheric aerosols collected from Greater Cairo by Synchrotron Radiation micro X-ray Fluorescence (SR- $\mu$ XRF) <i>Abdallah Shaltout</i>
11:30 – 12:00	BASEMA at SESAME, the first XAFS/XRF Beamline in the Middle-East for Scientific Research Applications <i>Messaoud Harfouche</i>
12:00 – 12:30	Upgrade of BASEMA XAFS/XRF Beamline at SESAME and Application to a Scientific Case <i>Mohamad M. Irar</i>
12:30 – 13:00	<b>Round table discussion</b>
13:00 – 14:00	Lunch Break (Days Inn, Hosted by SESAME)