



12th SESAME Users Meeting
26th – 27th November 2014

Scientific Program

TENTATIVE

1 st Day (Wednesday) November 26, 2014	08:30 – 10:00	Registration
	10:00 – 10:30	Welcome and Opening
	10:30 – 11:00	Coffee Break + hanging posters
	11:00 – 11:30	Scientific Program of SESAME <i>Giorgio Paolucci</i>
	11:30 – 12:00	Recent developments of the SESAME accelerator complex <i>Erhard Huttel</i>
	12:00 – 12:30	ALBA Synchrotron, Status and Perspectives <i>Caterina Biscari</i>
	12:30 – 13:30	Lunch Break
	13:30 – 14:00	The Impact of Light Sources on Science and Society in Developing Countries and the Growing Momentum for an African Light Source <i>Herman Winick</i>
	14:00 – 14:30	Infrared beamlines: “towards the future” <i>Paul Dumas</i>
	14:30 – 15:00	Research activities of FTIR Microspectroscopy at the infrared end station Emira <i>Ibraheem Yousef</i>
	15:00 – 16:30	Coffee Break + Poster Session
	16:30 – 17:00	XAFS/XRF Techniques at BASEMA beamline at SESAME for Scientific Applications <i>Messaoud Harfouche</i>
	17:00 – 17:30	A century of Crystallography: impact on drug design <i>Areej Abouhammad</i>
	17:30 – 18:00	Structural homogeneity and the Influence of Lattice Defects on the Grain Growth Kinetics of Nanocrystalline Fluorite <i>Mahmoud Abdellatif</i>
	19:00 – 21:00	Dinner (Days Inn, Hosted by JAEC)

Parallel Sessions		
2 nd Day (Thursday) November 27, 2014	09:00 – 13:00	<u>Workshops:</u> a. Synchrotron Radiation and Life Sciences b. Societal Issues: Synchrotron Radiation for Environment and Energy <i>COFFEE BREAK @ 10:30</i>
	13:00 – 14:00	Lunch Break (Days Inn, Hosted by MEWASA)
	14:00 – 14:10	Report on Workshops <i>M. Harfouche & I. Yousef</i>
	14:10 – 14:30	Review of South African synchrotron-related activities <i>Tshepo Paul Ntsoane</i>
	14:30 – 14:50	Methods and Techniques of Using Synchrotron Radiation in Investigating Composition and Nanostructure in Biological Materials <i>Ali Swalmih</i>
	14:50 – 15:10	Determination of Physiological Status of Freshwater and Marine Organisms; an FTIR Approach <i>Mamoon Al-Rshaidat</i>
	15:10 – 15:30	Application of FTIR in detection of air/soil pollutants on edible plants/plant oils from Jordan <i>Fatima Afifi</i>
	15:30 – 16:00	Coffee Break + Poster Session
	16:00 – 16:20	Crystal Structure of Human N-glycosylated Glypican-1 <i>Wael Awad</i>
	16:20 – 16:40	Elucidation of penetration enhancement mechanism of an oil of natural origin <i>Randa Mansour</i>
	16:40 – 17:00	Measurement of Photoionization cross section from the Excited States of Potassium <i>Aslam BAIG</i>
	17:00 – 17:20	Lifshitz Transition across the Ag/Cu(111) Superlattice Band Gap Tuned by Interface Doping <i>Zakaria Mohammed Abd- El-Fattah</i>
	17:20 – 17:30	<i>Awards for Best Poster</i>
	17:30 – 18:30	Users' Executive Committee (UEC)

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Synchrotron Radiation and Life Sciences	
09:00 – 09:10	Welcome and introduction <i>Ibraheem Yousef</i>
09:10 – 09:40	Biology and Biomedical opportunities with synchrotron infrared <i>Paul Dumas</i>
09:40–10:10	FTIR study of the biochemical effects in F98 glioma cells induced by x-ray irradiations combined with nanoparticles. <i>Immaculada Martinez-Rovira</i>
10:10-10:30	Apoptosis in A549 Lung Cancer Cells: Calretinin Modulation <i>Gihan Kamel</i>
10:30 – 11:00	Coffee Break
11:00 – 11:20	Investigating Weak Hydrogen Bonds in the Nucleic Acids Interacting Systems <i>Mahmoud Mirzaei</i>
11:20 – 11:40	Structure Determination of C ₂₃ H ₁₉ N ₄ OBr from Synchrotron Data <i>Özen Özgen</i>
11:40 – 12:00	Doxorubicin in breast cancer: would an antioxidant enhance its action? <i>Nirmeen Elmadany</i>
12:00 – 13:00	Round table discussion
13:00 – 14:00	Lunch Break

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Societal Issues: Synchrotron Radiation for Environment and Energy	
09:00 – 09:05	Welcome and introduction <i>Messaoud Harfouche</i>
09:05 – 09:35	Synchrotron Based XRF-XAFS Techniques in Tracking Pollution (air/soil) in some Arab regions <i>Abdellah Shaltout</i>
09:35 – 10:05	Negative thermal expansion of ScF ₃ : an EXAFS study at the Scandium K-edge from 10 K up to 1100 K <i>Shehab Ali</i>
10:05 – 10:35	Detoxification of Organometals with organomercuriallyase MerB and its unique metal binding properties <i>Haythem Wahba</i>
10:35 – 11:00	Coffee Break
11:00 – 11:30	In situ structural x-ray analysis of thermoelectric nanowires <i>Özgül Kurtuluş</i>
10:30 – 11:50	Correlation of in-situ WAXS and SAXS measurements to development of microstructure in uniaxially drawn PET <i>Ahmed I. Abou-Kandil</i>
11:50 – 12:10	Analytical study of ancient artifacts-bone, glass, pottery and pigments from archaeological site of Tell al-Husn and Khirbet ed-Darieh in Jordan <i>Wassef A. Sekhaneh</i>
12:10 – 13:00	Round table discussion
13:00 – 14:00	Lunch Break (Days Inn, Hosted by SESAME)