

# **SATELLITE MEETING**

## **Applications of Synchrotron Radiation in Natural and Applied Sciences**

**To be held within the framework of the IAEA “International Topical Meeting on Nuclear Research Applications and Utilization of Accelerators” - May 4 – 8, 2009**

### **ANNOUNCEMENT**

This satellite meeting will be held on May 7, 2009 (Thursday) with an emphasis on the applications of synchrotron radiation in the field of natural and applied sciences. The special attention and focus of the meeting will be the light source in Middle East. The Synchrotron-light for Experimental Science and its Applications in Middle East (SESAME) is under construction in Amman – Jordan. SESAME is a project under the auspice of UNESCO and it is an inter-governmental organization. Bahrain, Cyprus, Egypt, Iran, Israel, Jordan, Pakistan, Palestine Authority and Turkey are the members.

SESAME is a third generation light source with electron beam energy of 2.5 GeV, beam current of 400 mA and the emittance of 26 nm.rad. The emitted photons from the electron beam will cover a wide range in the electromagnetic spectrum from infrared to soft and hard X-rays. The circumference of the storage ring is 133.2 m with 13 straight sections providing the possibility for using the insertion devices such as undulator and wigglers. Several beamlines are planned for SESAME. In phase – I seven beamlines will be installed for applications and research in various areas of science such as: material science, protein crystallography, archaeology, atomic and molecular physics, and environmental science.

Following sessions are planned:

- SESAME (Introduction, Status of Machine, Planning for Beamlines, Scientific Program)
- Presentation from other light sources (SOLEIL, CLS, ELETTRA, ESRF)
- Panel and roundtable discussions
- Poster Presentations

For further information and queries please contact:

Francoise Mulhauser ([F.Muelhauser@iaea.org](mailto:F.Muelhauser@iaea.org))

Hafeez Hoorani ([Hafeez.Hoorani@cern.ch](mailto:Hafeez.Hoorani@cern.ch))