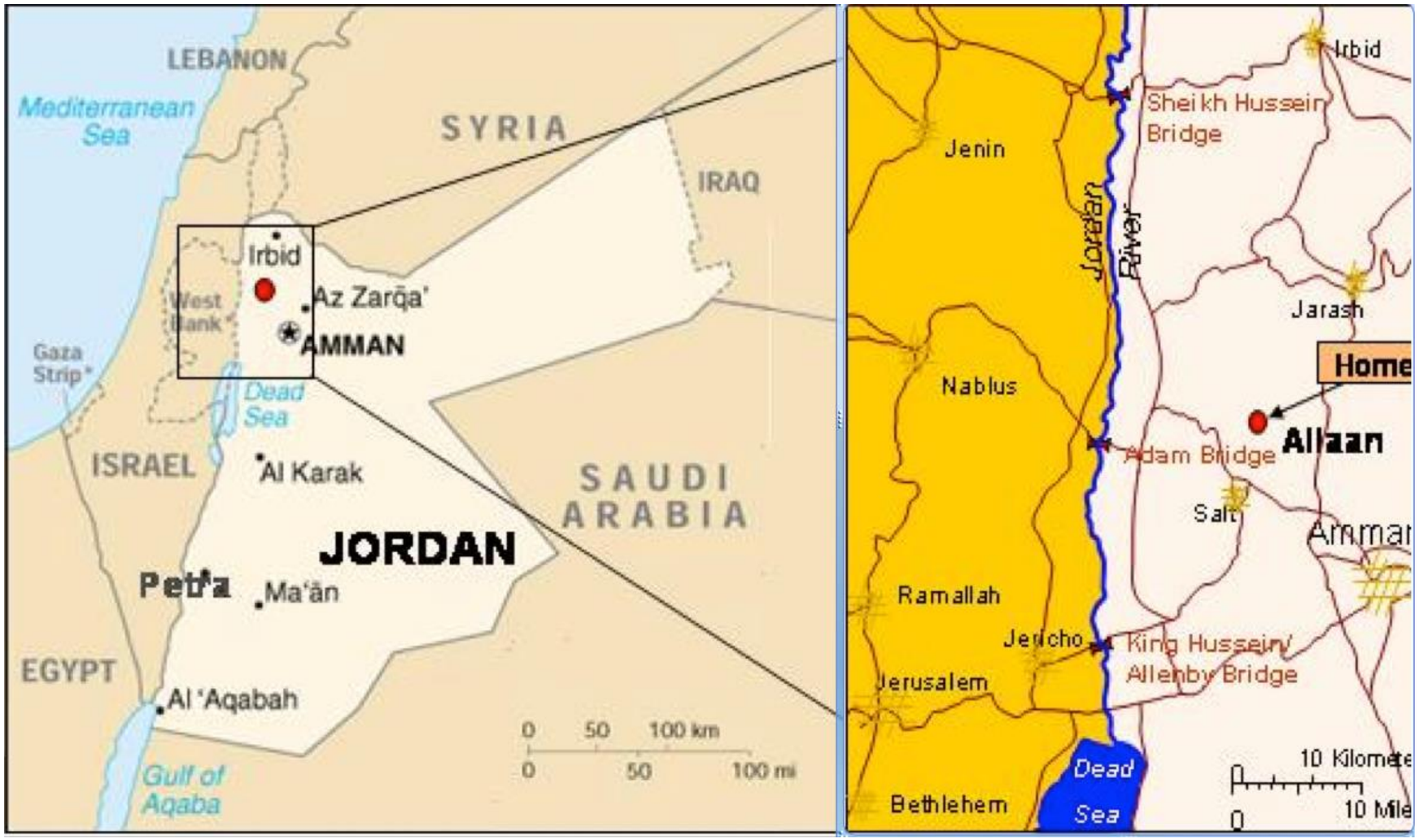
WORKING GROUP "SESAME"

Synchrotron Light for **E**xperimental **S**cience and **A**pplications in the **M**iddle **E**ast

A "CERN" in the Middle East



http://www.sesame.org.jo/sesame/

SESAME

International research centre in construction in Jordan
developed under the auspices of UNESCO **and modelled on CERN**
to enable world-class research by scientists from across the Middle East
- biology & medical sciences
- materials & environmental science & physics
- archaeology
build bridges between diverse societies
contribute to a culture of peace through international cooperation in science.

SESAME Members

Bahrain, Cyprus, Egypt, Iran, Israel, Jordan, Pakistan, Palestinian Authority, and Turkey

PRESIDENTS/VICE-PRESIDENTS OF COUNCIL

Presidents

Current President

November 2008-	Chris LLEWELLYN SMITH (U.K, Director of Energy Research University of Oxford and former Director-General of European Organization for Nuclear Research (CERN) and Chairman of the International Thermonuclear Experimental Reactor (ITER) Council)

Past Presidents

July 2004-November 2008	Herwig SCHOPPER (Germany, former Director-General of European Organization for Nuclear Research (CERN))

Vice-Presidents

Current Vice-Presidents

December 2011-	Seyed Mahmoud Reza AGHAMIRI (Islamic Republic of Iran, Shahid Beheshti University)
June 2010-	Mohamed Tarek HUSSEIN (Egypt, former President of Academy of Scientific Research and Technology (ASRT))

Past Vice-Presidents

July 2004-June 2010	Dincer ÜLKÜ (Turkey, Hacettepe University)
July 2004-June 2005	Khaled TOUKAN (Jordan, Minister of Education)

SESAME Working Group - ROAD MAP

Produce 2-3 lesson plans for your school classes on SESAME

Suitable for 14-15 year olds, possible extension to 16-18 years

Inspiring and motivating, not (too) much mathematics

Some possible ingredients: …..

1 - SESAME = Synchrotron Light Source

What is a synchrotron, how does it work (2.5 GeV electron storage ring)
What is synchrotron light - how is it produced?
What type of experiments can be done with it?
3-4 examples from different scientific disciplines

2 - SESAME Experiments

What type of experiments can be done with synchrotron light?
Examples from different disciplines:

- Material science
- Molecular biology
- Archeology
- Medicine
- Environmental studies
- Micromechanics

3 - SESAME = Peaceful collaboration, like at CERN

The history of SESAME (1997-2014)

The history of CERN - and parallels with SESAME

Collaborating countries, and their respective roles

Collaboration of scientists from different countries

Which university/research institute near you participates in SESAME?