

Summary and Outlook of IAEA Assistance to SESAME

*“Training Committee Meeting”
Trieste, Italy 8-9 September 2011
F. Mulhauser*



IAEA

International Atomic Energy Agency

INT/1/055: Title & Objectives

- Support for Human Capacity Building in the Utilization and Operation of the Synchrotron-Light for Experimental Science and Applications for the Middle East (SESAME)
- To strengthen international cooperation among Member States participating in SESAME through the use of accelerator physics and synchrotron radiation applications.

Summary of INT/1/055 Approved Funds

Year	2007	2008	2009	2010	2011	Total
Budget	214,292	184,416	193,619	160,925	173,550	926,802

Expert Missions Completed

Name	Where	When
HERON, Mark Thomas	SESAME	2011
SAYERS, Zehra; WRULICH, Albin	Italy	2011
BOUVET, Francois	France	2010
MAKAHLEH, Firas; AL SHEHAB, Maher; NADJI, Amor	Spain	2010
NADOLSKI, Laurent	SESAME	2010
LESTRADE, Alain; SEBDAOUI, Mourad	SESAME	2009
KAPPELLER, Rene	SESAME	2009
LEBASQUE, Pierre	SESAME	2009
LESTRADE, Alain; LEBASQUE, Pierre	SESAME	2008
HASNAIN, Syed Samar; DUMAS, Paul	SESAME	2008

Expert Missions Planned

Name	Where	When
HARDY, Alain	SESAME	Planned
BOUVET, Francois	SESAME	Planned
GOURNAY, Jean-François	SESAME	Planned

User's Meetings & Conference

Name	Where	When
MÜLLER, Alfred; AHMED, Musahid	Jordan	2007
GHARAIBEH, Mohammad	Austria	2008
GEORGE, Graham N.; SUSINI, Jean-Pierre	Jordan	2009
HOORANI, Hafeez	Austria	2009
ULFAT, Intikhab; OZKENDIR, Osman Murat; ABOU-KANDIL, Ahmed	Australia	2009
		Planned
No Names Yet	Jordan	2011

On the Job Training

Code	Name	Host Country	Status	Duration
JOR07017	Attal, Maher	France	November 17, 2007	1m
JOR08001	Hamad, Adli Mosa	France	December 21, 2007	2m
JOR08002	Matalgah, Salman Ali	Switzerland	May 13, 2008	1m
JOR08009	Abu-Haniyi, Ta'er	France	July 4, 2008	2m
JOR09003	Tarawneh, Hamed	Spain	December 7, 2008	1m
JOR09004	Hamad, Adli Mosa	Spain	December 7, 2008	1m
JOR09007	Al Najdawi, Mohammad	UK	June 18, 2009	2m
JOR10002	Sbahi, Muay'yad	Spain	December 16, 2009	1m
PAK09032	Khan, Tasaddaq Ali	Spain	December 15, 2009	1m

On the Job Training

Code	Name	Host Country	Status	Duration
JOR11002	Attal, Maher	Spain	October 25, 2010	1m
JOR11003	Hamad, Adli Mosa	Spain	October 25, 2010	1m
JOR11004	Makahleh, Firas	France	January 17, 2011	1m
JOR11010	Harfouche, Messaoud	France	July 27, 2011	1m
JOR11011	Matalgah, Salman Ali	France	July 10, 2011	1m
JOR11012	Al Shehab, Maher	USA	Initiated	1m

Completed Fellowship

Code	Name	Host Country	Status	Duration
EGY07010	Abd-Allah, Fatma	Germany	April 7, 2008	6m
EGY07034	Abuelfadl, Tamer	USA	October 13, 2008	3m
PAK07009	Baig, Anisullah	UK	March 31, 2008	8m
JOR07013	Al-Husseini, Mahmoud	Germany	August 28, 2008	7m
JOR07014	Afaneh, Feras	Germany	July 13, 2008	6m
JOR07016	AbuSamak, Mahmoud	Canada	July 21, 2008	6m

Completed Fellowship

Code	Name	Host Country	Completed on	Duration
JOR08019	Gharaibeh, Mohammad	France	September 15, 2009	3m
JOR08026	Salah, Wael	UK	December 24, 2008	5.5m
PAK08001	Nadeem, Muhammad,	ROK	May 01, 2010	6m
JOR09009	Al-Smadi, Abdel Khaleq Mousa	USA	May 17, 2010	6m
JOR10028	Aldrabee, Alyath	Germany	February 1, 2011	6m
JOR10043	EL-HASAN, Tayel	Germany	July 4, 2011	1m
TUR09003	Ozen, Istem	Italy	July 26, 2010	6m

Fellowships On-going

Code	Name	Host Country	Status	Duration
EGY11003	EL SHINAWI, Hany	Spain	Accepted but not yet Started (Jan 2012)	6m
PAK11003	SHAHID, Ali	Italy	Started but not yet ended (September 2011)	6m
JOR11005	SHATNAWI, Mouath	USA	Started but not yet ended (June 2011)	6m
JOR11006	NA'ES, Maram	GFR	Accepted but not yet Started (Oct 2011)	6m
PAK09012	Rahman, Moazur	UK	Started but not yet ended (2m in 2010, 2m in 2011)	3x2m
TUR10006	Kalkan, Bora	USA	Accepted but not yet Started (Feb 2012)	6m

Fellowships (others)

Code	Name	Host Country	Status	Duration
TUR08010	Akkaya, Abdullah	Switzerland	Proposed but not yet accepted	6m
TUR09001	Arseven, Merve	Switzerland	Proposed but not yet accepted	1m
TUR10007	KAPLAN TURKOZ, Burcu	France	Proposed but not yet accepted	6m

New Project

Title & Objectives (2012-2015)

- **Building Human Capacity for the Construction, Operation and Use of SESAME**
- **To support the human capacity development for the installation, commissioning, safe operation and utilization of the SESAME facility as an international centre of excellence for research and applications in the Middle East.**

SESAME's New Project Design

In accordance with the IAEA/SESAME Memorandum of Understanding of 2006:

- 1. the scope of the new TC project shall focus on Supporting SESAME's human resources by training SESAME users and operators for the safe and secure commissioning and operation of the SESAME.
- 2. the implementation modality of the Agency's support shall be in the form of training fellowships and expert missions

SESAME's New Project Design

- The design of the new project has been developed taking into consideration currently available information on the phases and timeline planned for the completion and operation of the SESAME facility during 2012 - 2015
- The new design was completed by 24 June 2011
- Programme's presentation to the IAEA Board of Governors for approval in November 2011

Project INT2010014: Description

- **Outcome 1:** Strengthened capacity for the installation, commissioning and safe operations of SESAME microtron, booster and the main ring and its beam-lines
- **Outcome 2:** Strengthened capacity for the sustainable utilization of SESAME facilities for research and application

Project INT2010014: Description

- **Outputs 1**: SESAME Technical team trained for the commissioning, and safe operation of the microtron, the booster and the 2.5 GeV electron storage ring
- **Output 2**: SESAME Scientific team trained for the timely commissioning and safe operation of Phase – I beam-lines
- **Output 3**: Core teams of SESAME's potential users trained to use the facility for high quality and internationally recognized scientific research and application programmes

Project INT2010014: Description

- **Activities Focus Area 1**: Development of human capacity for successful commissioning and safe operation of the SESAME facility
- **Activities Area Focus 2**: Development of human capacity for the construction and timely commissioning of SESAME Phase I beam-lines
- **Activities Area Focus 3**: Development of core user teams for the utilization of SESAME phase I beam-lines for quality and internationally recognized scientific research and application programmes

INT2010014 Proposed Budget (EURO): **TCF**

Year	2012	2013	2014	2015	Total
Budget	202,961	154,993	223,320	176,187	757,461

INT2010014 Proposed Budget (EURO): Extra-budget

Year	2012	2013	2014	2015	Total
Budget	77,711	118,521	57,897	50,190	304,319