

## Third Machine Workshop of SESAME at ICTP and ELETTRA

The third workshop of SESAME trainees in European laboratories was held at the Abdus Salam International Center for Theoretical Physics (ICTP) and ELETTRA from December 9 to 13, 2002.

SESAME (Synchrotron light for Experimental Science and Applications in the Middle East) is an international scientific institution that is going to be built in the Middle East (Jordan) under the umbrella of UNESCO. In the year 2000, the Technical and Training Committees of the SESAME Interim Council decided to recruit some young scientists and engineers from the Middle East region to be trained as future members of the technical staff of SESAME in scientific centers and laboratories in Europe. All member countries were called upon to introduce some selected graduates from their respective universities and send them to Jordan (host country of SESAME) for further evaluations. After an extensive selection process, the 16 participants were sent to France, Germany, Italy, Sweden, Switzerland, and the UK for training. Presently, 11 trainees have remained to participate in the training programs.

The first workshop was held in Boson, Germany, from June 5 to 9, 2001, and the second took place at the ESRF in Grenoble, France, from April 2 to 5, 2002. All participants appreciated the help, the support and the hospitality from the ESRF. During the workshop at the ESRF, the upgrading of SESAME to 2 GeV was discussed and the work for writing a draft conceptual design report was shared between the trainees. The upgraded version to 2 GeV was approved by the SESAME Interim Council in June 2002.

### Workshop activities

Within this workshop the next steps for the project—reinstallation of the microtron in Jordan, erection of the building, movement of



Participants at the 3rd SESAME Machine Workshop.

the staff to Jordan and the preparation of a conceptual design report—were discussed in detail.

Experts (from BESSY and Elettra) and the trainees presented more than 30 lectures, and “Activity Reports” during the workshop. Topics covered included: “Status of the Project,” “The BESSY Injector,” “Reinstallation of the Injector in Jordan,” “The Control System for the Injector,” “The Updated Layout of SESAME,” “Space and Infrastructure Requirements for the Movement to Jordan,” “SESAME Vacuum System,” “SESAME Magnets,” “Draft Design of the Girder System for SESAME,” “Final Concept for the Diagnostic System,” “Injection and Injector Transfer Line,” “Power Supplies and Cabling,” “Space for Components and Spare Parts,” “Layout of the Control Room,” “Staff of SESAME,” and “Time Schedule.” At the end of the workshop, the performance of SESAME was improved (reduction of the emittance and lengthening of the long straight sections).

Dieter Einfeld, the Technical Director of SESAME, was in charge of the Workshop. M. Hadi Hadizadeh Yazdi, a member of the Technical Committee of SESAME, and Herman Winick, a member the Beam Lines Committees of SESAME, also took part in this event, representing their respective committees. Herman Winick gave a general and comprehensive talk on the history of synchrotron radiation during the Workshop.

The sessions of the Workshop were held at the Main Building of the ICTP, but one full day was also spent at Elettra, where experts from the lab presented talks. A tour of Elettra was also organized for the trainees. For all participants this workshop was a great success and this was due to the help, support and hospitality of Elettra and the ICTP. ■

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