

## FOR FURTHER INFORMATION

### Ms. El Alami Wafaa

Head of ICPSR  
Islamic Educational, Scientific and Cultural  
Organization (ISESCO),  
Avenue des F.A.R  
P.O.Box 2275, Postal Code 10104  
Hay Ryad-Rabat  
Kingdom of Morocco.  
Tel: (+212-5) 37566052-53  
Fax: (+212-5) 37566012-13  
E-mail: icpsr@isesco.org.ma  
URL: www.isesco.org.ma

### Mr. Tajammul Hussain

Advisor (Programmes)  
COMSATS Headquarters  
4th Floor, Shahrah-e-Jamhuriat, G-5/2  
Islamabad - Pakistan.  
Tel: (+92-51) 9204892, 9214515-17  
Fax: (+92-51) 9216539  
URL: www.comsats.org  
Email: husseint@comsats.net.pk

### Dr. Eng. Kamal Abed

Professor Researcher  
Mechanical Engineering Department  
NRC & Head of Scientific Research  
Instrument Centre  
Academy of Scientific Research and Technology  
Behooth St., Dokki, Giza 12311  
Egypt.  
Tel: 0123707653  
Fax: (+202) 33370931  
URL:  
Email: kaabed3@hotmail.com

## NOTE

Nominations may be submitted to the addresses mentioned above. For more information on the workshop, view the latest details at the websites: [www.comsats.org](http://www.comsats.org), and [www.isesco.org.ma](http://www.isesco.org.ma) and [www.icpsr.org.ma](http://www.icpsr.org.ma)

instrument used in the research and academic labs of institutions as well as small scale industries in the OIC member countries to keep their hi-tech and expensive instrument operational.

## OBJECTIVES

- To provide hands-on training to the participants for improving their skills for independently maintaining and repairing the scientific instruments;
- To update the trainees' knowledge on changing technologies in scientific equipments;
- To acquaint the participants with the functioning of scientific instruments through need-based training, as well as documentation in the repair and maintenance of scientific equipments;
- To facilitate information-exchange among scientists, researchers, technicians, service engineers, and industrialists for enhancing the existing scientific capacity.

## LANGUAGE

The working language for the Workshop will be English.

## WHO SHOULD ATTEND?

Professional technicians, scientists, researchers, service engineers, industrialists from various institutions are encouraged to participate in the Workshop. Partial or full financial support will be provided to a limited number of participants on the discretion of the organizers.



*National Training Workshop on*

## Repair and Maintenance of Scientific Engineering Equipment in Universities, Research Institutions, and Small Scale Industries

*November 13-17, 2011*

*Cairo, Egypt*

*Organizers*



Islamic Educational, Scientific and Cultural  
Organization (ISESCO)



Commission on Science and Technology for  
Sustainable Development in the South (COMSATS)



National Research Centre (NRC), Egypt

## INTRODUCTION



Basic and applied research in science and technology is essential for the economic development of any nation. A large proportion of this research is customarily conducted in the educational and industrial organizations both in public and private sectors. The pace of research largely depends on the skills of the scientists and technicians and the availability of the well maintained scientific instruments.

In the developing countries, lack of planning, inappropriate equipment inventories and severe shortage of repairs and maintenance facilities create considerable obstacle in the smooth progress of research programmes. In this context, the teaching and research institutions suffer more from delayed research out-put and the industrial units face production losses. Unfortunately the concerned management in most of the developing countries, including the Islamic Countries, do not pay enough attention to the upkeep of repairs and maintenance facilities, resulting in the abandonment of a large number of very expensive instruments and equipment. These losses can be averted by spending a fraction of money on the effective and preventive repairs and maintenance schemes as compared to the costs incurred on time losses and the procurement of the new instruments and by providing relevant training to the operators, concerned engineers and technicians of such instruments, equipment, etc.

There is obviously a need to develop an indigenous capacity to repair and maintain the scientific equipment, as inviting foreign experts for the purpose is time-consuming and economically unviable, especially for the developing countries. Manpower adept in repairing and maintaining scientific equipments of all sorts used in the teaching and research institutions, and industries,

can ensure uninterrupted research work, and thus an overall socio-economic development of a country.

To enable the Islamic countries to achieve the technological self-reliance in the up-keep of the repairs and maintenance facilities and to reduce the technological dependence on the foreign know-how, a national training Workshop is being organized by COMSATS, in cooperation with Islamic Educational, Scientific and Cultural Organization (ISESCO) and COMSATS' Centre of Excellence in Egypt, the National Research Centre (NRC), Egypt. The national workshop entitled "Repair and Maintenance of Scientific Engineering Equipment in Universities, Research Institutions and Small Scale Industries" will take place in Cairo, Egypt from 13th to 17th November 2011.



The Workshop is intended to highlight the issues/problems relating to the maintenance and repair of scientific engineering equipments used in Universities, Research Institutions and Small Scale Industries. A number of experts would provide hands-on training to the participants of the workshop for upgrading their skills and enhance their capacities in repairing, maintaining and troubleshooting of scientific engineering equipments. The workshop encompasses interactive lectures and practical training.

Earlier in 2010 (Senegal), 2005 (Syria), and 2004 (Sudan), COMSATS and ISESCO collaborative events on the same theme have benefited over 150 scientists, engineers and technicians. These workshops are very successful in developing indigenous expertise and build capacity for the maintenance of scientific

## REGISTRATION FORM

*National Training Workshop on*

### **Repair and Maintenance of Scientific Engineering Equipment in Universities, Research Institutions, and Small Scale Industries**

*November 13-17, 2011  
Cairo, Egypt*

Name \_\_\_\_\_

Designation \_\_\_\_\_

Institution/Organization \_\_\_\_\_

Highest Qualification \_\_\_\_\_

Postal Address \_\_\_\_\_

City \_\_\_\_\_ Country \_\_\_\_\_

Tel. \_\_\_\_\_ Fax \_\_\_\_\_

Email \_\_\_\_\_

Signature \_\_\_\_\_

Date \_\_\_\_\_

Last date for registration as a participant is October 15, 2011. You can also register online at COMSATS' website: [www.comsats.org](http://www.comsats.org)