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## OBJECTIVES

In order to make its outcome more effective and fruitful for the beneficiaries, the following objectives have been outlined for the event:

- to impart hands-on training for improving participants' skills for independently repairing and maintaining the scientific instruments they use;
- to demonstrate useful steps and protocols for repairing defective instruments;
- to update the participants' knowledge on the latest techniques involved in the operation of scientific instruments;
- to update the trainees' knowledge on new technologies used for repairing scientific equipment;
- to acquaint the participants with the functioning of scientific instruments through need-based training, as well as teaching them how to document of the repair and maintenance activities;
- to facilitate networking for information-exchange among scientists, researchers, technicians, service engineers, and industrialists.

## FORMAT

Two experts from Pakistan would impart lectures and hands-on training to the participants of the workshop for upgrading their skills and enhancing their capacities for repairing, maintaining and troubleshooting important scientific engineering equipment in their organizations.

## LANGUAGE

The working language for the workshop will be English.

## WHO SHOULD ATTEND?

Professional technicians, scientists, researchers and service engineers from academic and research institutions, hospitals and industries of Oman are encouraged to register for the national workshop. For more information on the workshop, please visit: [www.comsats.org](http://www.comsats.org), and [www.icpsr.org.ma](http://www.icpsr.org.ma), or contact the officials enlisted.

## National Training Workshop on

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

23 - 27 August 2015  
Rustaq, Sultanate of Oman



## Organizers



Islamic Educational, Scientific and Cultural  
Organization (ISESCO)



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



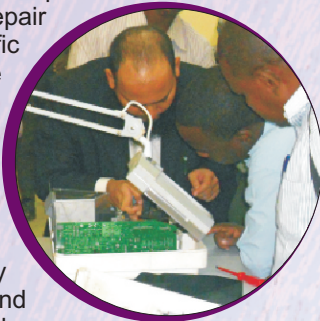
Ministry of Higher Education, Sultanate of Oman

## INTRODUCTION

It is universally recognized that scientific research is indispensable for achieving long-term national development and economic growth. A large part of basic and applied research is conducted by educational institutes and industrial organizations, both in public and private sectors. The pace of research and the ensuing development largely depends on the skills of the scientists and technicians, and availability of well-maintained scientific instruments.

In developing countries, lack of expertise and inadequate repair and maintenance facilities pose obstacles for the smooth progress of research programmes. Due to these obstacles, the teaching and research institutions, and small-scale industries especially suffer, in terms of delayed research outputs and/or production losses.

There is a great need to develop an indigenous capacity to repair and maintain the scientific equipment in the developing countries. Lack of attention towards the establishment of maintenance facilities leads to temporary or permanent discarding of a large number of very expensive instruments and equipment, which takes a huge financial toll on the already resource-challenged laboratories of the developing countries. These losses can be greatly avoided by spending a fraction of the cost of equipment on developing effective preventive and corrective repair and maintenance processes. Manpower adept in repairing and maintaining scientific equipment of all sorts used in the teaching and research institutions, hospitals and industries can help ensure uninterrupted research work, and thus lead to an overall socio-economic development of a country.



## THE WORKSHOP

With a view to enable the developing countries to achieve the necessary technological self-reliance in setting up of repair and maintenance facilities and to reduce their dependence on foreign experts, a serial national training workshop on 'Repair and Maintenance of Scientific Engineering Equipment in Universities, Research Institutions and Small Scale Industries' is being held in Rustaq, Oman, from 23<sup>rd</sup> to 27<sup>th</sup> May 2014. The workshop is being organized by the Commission on Science and Technology for Sustainable Development in the South (COMSATS), in collaboration with Islamic Educational, Scientific and Cultural Organization (ISESCO), and the Ministry of Higher Education, Sultanate of Oman.



In the past, the events under the series of workshops have been conducted in Iran (2014), Ghana (2013), Sudan (2013 & 2004), Tunisia (2012), Egypt (2011), Senegal (2010) and Syria (2005), and benefited more than 300 scientists, engineers and technicians. Based on the best practices and experience acquired during the earlier events of the series, the event is intended to highlight the issues/problems relating to the maintenance of scientific engineering equipment used in universities, research institutions and small-scale industries.



*National Training Workshop on*

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

*23-27 August 2015  
Rustaq, Sultanate of Oman*

### **REGISTRATION FORM**

Name \_\_\_\_\_

Designation \_\_\_\_\_

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

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

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

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

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

Email \_\_\_\_\_

Signature \_\_\_\_\_

Date \_\_\_\_\_