



Regional Workshop on Active Learning in Optics and Photonics December 7-11, 2015

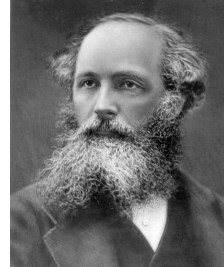
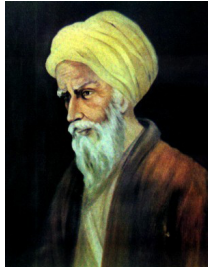


Jointly Organized by

National Centre for Physics, Islamabad, Pakistan
and
Centre for Physics Education, Karachi, Pakistan



**Celebrating
International Year
of Light 2015
(IYL-2015)**



Introduction:

The National Centre for Physics, Islamabad and The Centre for Physics Education, Karachi are jointly organizing a five days regional workshop on **Active Learning in Optics and Photonics (ALOP)** from 7 - 11 December 2015 at NCP. By joining hands with the international community of physics, this event is being organized at NCP to celebrate the International Year of Light and Light based Technologies 2015.

ALOP is an **international award-winning program** planned and designed by UNESCO to strengthen the learning environment for students in developing countries by training teachers in a 5-day hands-on, minds-on, intensive workshop. The ALOP workshop will provide participants with an introductory update in the fields of optics and photonics, and active learning strategies for teaching that have been demonstrated to be more effective than traditional methods. Since 2004, there have been over 20 ALOP workshops throughout the world. These workshops have included over 1,000 teachers from nearly 60 developing countries in Africa, Asia and Latin America. There have also been several follow-up workshops to train the trainers by giving them the opportunity to work as assistant facilitators. This program is designed to empower teachers to educate their students effectively using locally-available resources. ALOP workshops are facilitated by internationally recognized experts in optics and education.

Physics teachers from the Asian and Central Asian Countries are encouraged to apply for participation in the Regional Workshop on ALOP.

About registration:

There is no registration fee. In principle, travel expenses of participants should be borne by the home institution. Limited funds are available for some participants who are nationals of, and working in a developing country, to be selected by the Organizers. However, every efforts should be made by candidates to secure at least partial support for their travel expenses.

How to apply:

Applicants below the age of 45 years are eligible to apply for participation in ALOP event. Application form can be accessed at the activity website: www.ncp.edu.pk.
DEADLINE for requesting participation: **12 October 2015**

Sponsors:

- The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy
- The United Nations Educational, Scientific and Cultural Organization (UNESCO)

International Advisory Committee

Alexander Mazzolini
David Sokolof
Kyunghwan Oh
Martin Richardson
Suhail Zubairy

National Advisory Committee

Abdullah Sadiq
Badar Suleman
Hafeez R. Hoorani
Muhammad Jameel
Pervez Hoodbhoy
S. M. Javed Akhter

Invited Speakers

Joseph Niemela
M. Aslam Baig
Shaikat Hameed Khan

Facilitators

Imrana Ashraf
Khalid Berrada
Souad Lahmer
V. Lakshminarayanan

Organizing Committee

Aquila Islam (CPE), Chairperson
Aziz Fatima Hasnain (CPE), Secretary
Hassan Shahzad (NCP)
Manzoor Ikram (NILOP)
Rabia Rasheed (NCP)
Riffat M. Qureshi (NCP)
Rizwan Ahmed (NCP)
Shahid Mahmood (KU)
Syed Rehan Ali (CPE)

**Application
Deadline
12 Oct. 2015**

For further information please contact:

Secretary General CPE: Prof. Aziz Fatima Hasnain, Phone: +92 333 210 5081, Email: cpekhi@yahoo.com
Manger CAAD (NCP): Rabia Rasheed Butt, Phone: +92 51 2077 350, Email: rabia.rasheed@ncp.edu.pk