



## 2<sup>nd</sup> National Workshop on X-ray Photoelectron Spectroscopy (XPS)

November 7-8, 2017

Organized by

National Centre for Physics, Islamabad

### Introduction

National Centre for Physics (NCP) is organizing a Two day "2<sup>nd</sup> National Workshop on X-ray Photoelectron Spectroscopy (XPS)" from November 7-8, 2017.

Nanoscience and Technology Department (NS & TD) at NCP is equipped with several state of the art characterization techniques, XPS being the latest addition to these. Photoelectron spectroscopy is an immensely valuable nondestructive surface analysis technique ( $\leq 10\text{nm}$ ) based on the photoelectric effect that provides composition and chemical bonding information on the surface of almost any material (conducting or insulating). The XPS equipment at NCP is the only one in the entire country and has therefore become the focus of attention of a large number of researchers. This workshop aims to orient the participants to the basics of this system and its multifaceted applications. The event will hold introductory lectures and case studies from XPS experts, as well as interactive sessions. There will be ample opportunities for the prospective users to learn the potentials of this technique and to determine the prospects of collaborations in this area.

### Participation

Young faculty and researchers aspiring to take up research in the field of surface science are encouraged to participate. Limited seats are available and selection will be made on first come first serve basis as per eligibility criteria. Selected applicants will be required to pay Rs. 4000/- (for local participants) and Rs. 6000/- (for out station participants) as registration fee upon arrival at Venue. Partial travel assistance may be provided to selected outstation participants on merit basis.

### How to Apply

Application form can be downloaded from [www.ncp.edu.pk/nwxps-2017.php](http://www.ncp.edu.pk/nwxps-2017.php) and email the filled registration form to [muhammad.arshad@ncp.edu.pk](mailto:muhammad.arshad@ncp.edu.pk) before October 07, 2017. Selected candidates will be informed through email.

### For further Information, Please Contact: Activity Secretariat

Collaborations & Academic Activities Department (CAAD)  
[caad@ncp.edu.pk](mailto:caad@ncp.edu.pk)

National Centre for Physics, NCP Campus,  
Shahdra Valley Road, Islamabad, Pakistan  
Tel: 051-2077363, Fax: 051-2077389

### Directors

Dr. Hafeez R. Hoorani

Dr. Sara Qaisar

### Technical Committee

Dr. Muhammad Sultan

Mr. Muhammad Arshad

Dr. Yaqoob Khan

### Organizing Committee

Mr. Inam ur Rehman Butt

Mr. Abdul Hamid

### Invited Speakers / Lecture

#### Topics

To be announced

### Workshop Coordinator

**Muhammad Arshad**

Email: [muhammad.arshad@ncp.edu.pk](mailto:muhammad.arshad@ncp.edu.pk)

Tel: 051-2077300 Ext. 485

**APPLICATION  
DEADLINE  
October 7, 2017**