



International Workshop on Hybrid Perovskite Photovoltaic and Optoelectronic Devices

October 8 - 10, 2018

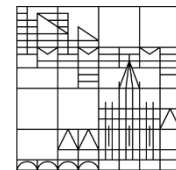
Jointly organized by

National Centre for Physics (NCP), Islamabad

&

University of Konstanz, Konstanz Germany

Venue: National Centre for Physics (NCP), Islamabad



University of
Konstanz

Introduction

The solar energy conversion technologies are entering into a new regime with novel device architectures, new materials and process ability of hybrid structures in the devices. Organic-inorganic perovskite materials have attracted the interest of the scientific community primarily due to the remarkable power conversion efficiency of about 23% achieved within six years, since their inception. However, despite the high efficiency, the stability of these devices is still a challenge, so that investigations of physical processes that can help overcome this setback still need to be explored.

The main purpose of the workshop is to strengthen the photovoltaic related research activities and broaden the understanding of young researchers in the new generation of photovoltaics. The workshop topics will mainly cover fundamentals of hybrid photovoltaics, their physics, processing & characterization techniques and stability of third generation solar cells. Moreover, advanced topics such as emerging concepts in photovoltaics, role of interfaces and charge transfer dynamics will be also part of the workshop.

This workshop will be centered on the lecture series of Prof. Lukas Schmidt-Mende from the University of Konstanz, who is a renowned expert in the field of hybrid photovoltaics. Some online lectures from other experts in this field will also be a part of the workshop.

The technical sessions in the workshop will comprise of plenary lectures, starting with the basics and leading to advanced concepts. Discussions and poster sessions will provide the opportunity to get involved in collaborative work on contemporary research problems.

Participation

Research students, post-doctoral researchers, faculty members and research scientists who are actively involved in the related research areas are encouraged to apply for participation and presentation (oral or poster). The travel expenses of the participants shall be borne by their parent institutes. Partial travel assistance may be provided to selected outstation student participants on merit basis.

How to Apply

Registration Form can be accessed at: <http://www.ncp.edu.pk>. Application Form should be submitted to Activity Secretariat: caad@ncp.edu.pk by July 10, 2018 for foreign participants and by September 1, 2018 for local participants. Selection will be made by the Technical Committee of the workshop. Foreign applicants are required to attach/provide first two relevant pages of their passports valid up to at least six months after the workshop. These documents may be submitted to the activity secretariat by email or fax before the deadline for registration. Selected applicants will be required to pay registration fee (local participants: PKR. 1000/-, outstation participants: PKR. 1500/-). Selected applicants will be required to pay the registration fee upon arrival at the venue. There is no registration fee for the speakers and foreign participants. Selected candidates will be informed through email before September 21, 2018.

Sponsor

German Academic Exchange Service (DAAD), Germany

For Further Information, Please Contact:
Activity Secretariat: caad@ncp.edu.pk
Collaborations & Academic Activities Department (CAAD)
National Centre for Physics, Quaid-I-Azam University Campus,
Shahdra Valley Road, Islamabad, Pakistan
Tel: 051-2077363, Fax: 051-2077342

Advisors

Dr. Hafeez Hoorani (NCP)
Dr. Sara Qaisar (NCP)
Dr. S. K. Hassanain (COMSTECH)

Coordinators

Prof. Lukas Schmidt-Mende (Uni. Konstanz)
Dr. Muhammad Sultan (NCP)
Dr. Azhar Fakhruddin (Uni. Konstanz)

Technical Committee

Dr. Naila Jabeen
Dr. Shahzad Abu Bakr

Organizing Committee

Mr. Inamur Rehman Butt
Mr. Abdul Hamid
Mr. M. Arshad
Ms. Abida Saleem

Lectures Topics

- Basics of solar energy conversion and third generation solar cells
- Perovskite materials and device physics
- Emerging concepts in photovoltaics
- Processing and characterization of third generation solar cells
- Opportunities and challenges related to third generation solar cells
- Impedance spectroscopy of hybrid devices
- Charge transfer dynamics and role of interfaces in hybrid solar cells

For Technical Information:

Workshop Coordinator

Dr. Muhammad Sultan

Email: sultan@ncp.edu.pk

Tel: 051-2077300 Ext. 408, 0345-5893398

Nanoscience and Technology Department
(NS&TD)

**APPLICATION
DEADLINE**

July 10, 2018

For Foreign Participants

September 1, 2018

For Local Participants