<u>Program and Lecture Schedule of "International Workshop on Nanomaterials for Energy Conversion, Emerging Photovoltaic and Optoelectronic Technologies (NEEPO-19)" (Tentative**)</u>

	8:15 - 9:15 am	9:20 - 10:30 am	10:30 - 11:00 am	11:00 am - 11:45 pm	11:45 - 1:00 pm	1:00 - 2:00 pm	2:00 - 2:55 pm	2:55 - 3:45 pm	3:45 - 4:00 pm
Monday 07/10/18	Registration	Inauguration + Keynote lecture (K1)	Group Photo + Tea break	K-2 (M Ibrahim)	I-1, I-2, C1 Hassan, Khurram,	Lunch	K-3* (Nazeer)	I-3, C2 Qamar Abid	Tea
Tuesday 08/10/18	8:30 - 10:30 am I-6, I-4, I-5, C-3 Zaheer, Zafar, Saifullah, Aftab (C3)		10:30 - 11:00 am Tea break	11:00 am -1:00 pm I-13, I-7, I-8, C-1 Usman, Gul, K-5* (Azhar), Saifullah		1:00 - 2:00 pm	2:00 – 3:00 pm K-6* (Lukas)	3:00 – 4:00 pm Poster presentation + Tea	4:00 - 7:00 pm*** Excursion
Wednesday 09/10/18	8:30 - 10:30 am I-9, I-10, I-16, C-4 Naveed, Safeer, Naeem, Akbar		10:30 - 11:00 am Tea Break	11:00 am - 1:00 pm I-11, I-12, I-13, I-14 Adib-2, Azhar, Adbullah		1:00 - 2:00 pm	2:00 - 3:00 pm I-15, C-5 Arbab	3:00 - 3:40 pm Closing + Certificates	3:40 – 4:00 pm Tea

K: Keynote lecture, **I**: Invited talks, **K***: Online video talks by foreign **f**aculty, **C**: Contributed talk.

^{**} Tentative plan. For latest technical program please consult the webpage of the workshop (http://www.ncp.edu.pk/neepo-2019.php) and notice boards at venue.

^{***} Symposium dinner will be on 9th Oct. 2018, 7:30 pm advanced registration for workshop dinner is compulsory by 4;00 PM on 7th September 2019.

Invited Talks:

- **K-1 Prof. Dr. Ahmed Shuja (IIUI):** Revisiting the Materials, Devices and Systems Matrix for Applications in PV Solar and Optoelectronics
- **K-2 Dr. M. Adib Ibrahim (Uni.i Kebangsaan, Malaysia):** Novel Nanostructures for Photovoltaic Devices
- **K-3 Prof. M. Khaja Nazeeruddin* (EPFL, Switzerland):** Developments and prospects of Perovskite solar cells (to be finalized)
- **K-4 Prof. Shengzhong Liu (Shaanxi Normal University China):** High efficiency Perovskite solar cells and optoelectronic devices
- K-5 Dr. Azhar Fakharuddin* (IMEC, Belgium): Light from perovskite crystals
- K-6 Prof. Lukas Schmidt-Mende* (Uni. Konstanz, Germany): Perovskites Defects and Interfaces
- I-1 Prof. Muhammad Hassan Sayyad (GIKI): Commercialization of next generation solar cells
- I-2 Dr. Khurram Joya (KFUPM): Functional nanomaterials for energy applications
- I-3 Dr. Shahzada Qamar Hussain (CUI Lhr): Advanced light scattering techniques for thin-film solar
- **I-4 Dr. Zafar Hussain Ibupoto (Uni. Sindh, Jamshoro):** Metal Oxide Nanostructures for energy applications
- I-5 Dr. Saifullah Awan (NUST): Physics of metal-oxide semiconductors
- I-6 Dr. M. Zahir Iqbal (GIKI): Two dimensional materials and their application
- I-7 Dr. Gul Rehman (QAU): Theoretical calculations for energy materials and devices
- **I-9 Dr. Safeer Ahmad (QAU):** Synthesis and Electrochemical Characterization of Hematite Based Electrodes for Water Splitting
- **I-10 Dr. Naveed Zafar Ali (NCP):** Conceptual design of novel framework materials for Fuel Cell technology
- I-12 Dr. Azhar Iqbal (QAU): Ultrafast charge dynamics at interface of hybrid materials
- I-13 Dr. Muhammad Usman (GIKI): GaN-based light-emitting diodes
- I-14 Dr. Abdullah (QAU): Water splitting: design strategies challenges and way forward
- **I-15 Dr. Arbab M. Toufiq (Hazara University Mansehra):** Rare-earth doped Alumino-silicate Nanoparticles for applications in high power Fiber Lasers

*Video lectures

Contributed Talks:

- **C-1 Dr. Abid Ali (CIIT, Lhr):** Cobalt-Selenide Decorated Carbon Nanotube Fibers: A Versatile Approach towards Overall Electrochemical Water Splitting
- **C-2 Dr. Muhammad Saif Ullah (PINSTECH):** Performance and Uniformity Improvement in Ultrathin Cu(In,Ga)Se2 Solar Cells with a WOx Interlayer at the Absorber/Transparent Back-Contact Interface
- **C-3 Dr. Muhammad Aftab, Akram (NUST):** Hierarchical Mesoporous Nanostructures of Ternary Metal Oxides for Energy Storage Applications
- **C-4 Eng. Akbar Qureshi (BZU):** Enhanced Performance of Plasmonic Dye Sensitized Solar Cell due to Synergistic Combination of Copper doped TiO2 Photoanode and rGO/Iron Hybrid Nanomaterial as a Low Cost Counter Electrode
- **C-5 Dr. SAMSON, Aisida (University of Ibadan):** High energy induced semiconductor ZnO nanodevices for space technology

Waiting:

Dr. Naeem Ahmad (IIUI): High elechtrocatalytic activity and low charge transfer resistance (RCT) in Single and alloy Cobalt-Nickel Nanowires /Polypyrole (Co0.1Ni0.1/Ppy) nanocomposites based counter electrodes

Abdur-Rehman Anwar (GIKI): Role of polarization field on degradation of the internal quantum efficiency by analytical formulation of GaN-based light-emitting diodes