



RUSA Sponsored

International Webinar on Frontiers in Experimental Physics

IWFEP-2020



2020 AUGUST 5,6



Post Graduate & Research Department of Physics

FAROOK COLLEGE (AUTONOMOUS)

P.O. Farook College, Kozhikode-673 632, Kerala.

<http://www.farookcollege.ac.in> , hodphysics@farookcollege.ac.in

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Dear Sir/Madam,

We are happy to inform you that, Department of Physics, Farook college is organizing a two day ***International Webinar on Frontiers in Experimental Physics (IWFEP-2020) during 5-6, August, 2020.*** This is envisaged as a program through which Young researchers get acquainted with research trends in the field of experimental Physics. This comprehensive ideas will be useful to evaluate and reorganize research works according to the new normal academic exercises. We wholeheartedly invite the faculty members & research scholars of your institution to participate in the webinar.

Dr. K.M. Naseer
Chairman (**IWFEP-2020**)
Principal
Farook College

Midhun shah
Organizing Secretary (**IWFEP-2020**)
Head, Department of Physics
Farook College

**International Webinar on
Frontiers in Experimental Physics -----IWFEP-2020----**

05.08.2020 Inauguration



9:30 AM-10:15 AM



Dr. M.K. Jayaraj
(Vice Chancellor, University of Calicut)

05.08.2020 TALK 1



10:15 AM -11:15 AM



Dr. P.S. Anil Kumar
Professor, Department of Physics
Indian Institute of Science (IISc), Bengaluru

TOPIC: Physics and Technology with Quantum Materials

Area of Interest :Spintronics:Magnetic tunnel junctions and Magnetic Random Access Memory, Oxide based dilute magnetic semiconductor, Exchange coupling, Spin torque. Magnetic films and Nano-structures:Perpendicular magnetic recording, Patterned magnetic Media. Magneto transport in Metallic Multilayers and oxides: Ferromagnet Superconductor-Ferromagnet hybrid structures. Magnetic oxides: Exchange spring magnets, Itinerant electron ferromagnetism, Phase separation and Spin glass behavior, Exchange coupling. Spin Transport in Carbon and polymer systems

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05.08.2020

TALK 2



5:00 PM -6:00 PM



Dr. Navaneeth .P

Research Associate
Iowa State University, AMES, U.S.A

TOPIC: Oscillating Neutrinos

Area of Interest: Particle Physics, Neutrino Physics, Cold electronics development for particle detectors, Neural network for particle physics application, Deep underground neutrino experiments

06.08.2020

TALK 3



9:30 AM -10:30 AM



Dr. Aditya D. Mohite

Associate Professor
Materials Science and Nano Engineering,
Chemical and Biomolecular Engineering
RICE University, Houston, U.S.A

TOPIC: Halide Perovskites: A new class of semiconductor with novel properties

Area of Interest : Understanding and controlling photo-physical processes occurring at the interfaces created with layered 2D materials, organic and inorganic materials for thin film light to energy conversion technologies such as photovoltaics, photo-catalysis, etc. He is also interested in the application of correlated interface sensitive techniques such as photocurrent, time resolved PL, electro-absorption, impedance spectroscopy, etc., to investigate the charge and energy transfer and recombination processes.

06.08.2020

TALK 4



3:00 PM -4:00 PM



Dr. Maria Thava Christy

Researcher

Department of Chemical Engineering

Hanyang University, South Korea

TOPIC: Clean energy solutions & The future of energy Storage

Area of interest: Energy storage and conversion system, Electrochemistry and Chemical Engineering , Lithium-ion and metal-air battery technology. **Lithium** secondary batteries, Super capacitors, Fuel cells Catalysis, **Secondary battery design:** Material synthesis and characterization, Fabrication of electrodes, Fabrication of lithium cells

06.08.2020

TALK 5



6:00 PM -7:00 PM



Dr. Jasnamol.P.K

Scientific Staff,

Advanced Thin Film Technology

Technische Universität Darmstadt, Germany

TOPIC:A Recipe to study the magnetism of Perovskite oxides

Area of Interest: Physical properties of magnetic materials. Detailed magnetic structure identification by isothermal magnetic and thermomagnetic analysis , AC Susceptibility analysis to find the frustrated magnetic or spin/cluster glass systems ,Spin glass identification by memory and aging measurements by various FC and ZFC protocols , Resistivity and magneto resistance studies Studies on specific heat and its relation with physical properties , Dielectric relaxation and magneto dielectric studies

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Registration details



Interested Candidates Please join us through the whatsapp link

 <https://chat.whatsapp.com/C4FN5V6h115HbxUpqcPEai>

Registration forms and other communications will be circulated through this group

LIMITED SEATS, NO REGISTRATION FEE

All participants will be given E-Certificates after successful completion

Contact: 9400032515,9747776591,9995619256

Organising Committee

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Dr. K. M. Naseer
Principal, Farook College

Organizing Secretary

Midhun shah
Head, Department of Physics

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