



XXII INTERNATIONAL WORKSHOP ON PHYSICS OF SEMICONDUCTOR DEVICES IWPSD2023



Tutorial Program

@ Research Park, IIT Madras

Wednesday,
13th of December 2023



From 09.00 AM
to 04.30 PM

1. An Atom-to-Farm Introduction to the Solar Cell Technology



Pradeep Nair
IIT Bombay, India

Fundamentals of Solar Cells
09:00 AM - 10:15 AM



Muhammad A. Alam
Purdue University, USA

Physics of Solar Farms
11:00 AM - 12:30 PM
Reliability Physics of Photovoltaic Technology
01:30 PM - 02:45 PM



Sagarika Kumar
Dubai Electric and Water Authority,
UAE

*Electrical and Physical Characterization
of Solar Modules*
03:15 PM - 04:30 PM

2. Power Semiconductor Devices and Applications



Anant Agarwal
Ohio State University

Silicon Carbide (SiC) Devices & Technology
09:00 AM - 10:15 AM



Davide Bisi
Transphorm Inc.

Gallium Nitride (GaN) Devices & Technology
11:00 AM - 12:30 PM



Vijay Bolloju
GyanTrek

E-Vehicles Applications and Device Requirements
01:30 PM - 02:45 PM



**Shiladri
Chakraborty**
IIT Bombay

*Packaging Technology for Wide Bandgap
Power Devices*
03:15 PM - 04:30 PM

3. Organic Semiconductor Devices and Applications



Supravat Karak
IIT Delhi, India

*Introduction to the Fundamentals of
Organic Semiconductors: Physics and
Applications*
09:00 AM - 10:15 AM



Shree Prakash Tiwari
IIT Jodhpur, India

*Crucial Aspects for Designing High
Performance Organic Thin Film
Transistors*
10:15 AM - 11:15 PM



Moritz Riede
Oxford University, UK

Organic Photovoltaic Devices
11:30 PM - 12:30 PM



G. Rajeswaran
IIT Madras, India

Organic Light Emitting Diodes
01:30 PM - 02:45 PM
AMOLED Display
03:00 PM - 04:30 PM

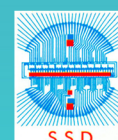
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