

# 4<sup>th</sup> INTERNATIONAL CONFERENCE ON SOLAR ENERGY PHOTOVOLTAIC

18<sup>TH</sup>- 21<sup>ST</sup> DECEMBER, 2025

SCHOOL OF ELECTRONICS ENGINEERING

KALINGA INSTITUTE OF INDUSTRIAL TECHNOLOGY, BHUBANESWAR-751024, ODISHA

## TENTATIVE PROGRAM

### REGISTRATION

17 <sup>h</sup> December, 2025 - 4.30 - 6.00 pm	Venue – Thin Film Lab (3 <sup>rd</sup> Floor) School of Electronics Engineering, Campus-12
18 <sup>th</sup> December, 2025 – 8.30 – 9.15 am	

### 18<sup>TH</sup> DECEMBER 2025: Venue –School of Electronics Engineering

9.30 to 10.30 am	<b>INAUGURAL FUNCTION (Auditorium Campus-12)</b>
10.30 to 11.15 am	<b>Plenary Talk: Prof C Jagadish, ANU , Australia</b> Title: "Semiconductor nanostructures for Optoelectronics and Energy Applications."
11.15 to 11.45 am	<b>HIGH TEA</b>
11.50 to 1.00 pm	<b>KIIT and KISS Visit</b>
1.00 to 2.00 pm	<b>Lunch Break</b>
	<b>SESSION –I (New Conference Hall, OAT)</b>
	<b>Session Chair: Dr. Ashok Sahoo, KIIT University, Bhubaneswar</b>
2. 00 to 2. 45 pm	<b>Keynote 1: Prof. Hari Upadhyaya</b> Title: "Next generation technologies and challenges towards net-zero targets."
2.45 to 3.20 pm	<b>Invited Talk 1: Prof. J. K. Rath, IIT Madras</b> Title: "Density of states of metal oxides fabricated by ALD, it's effect on carrier selective contact solar cells."
3.20 to 3.50 pm	<b>Invited Talk 2: Prof. Pratima Agarwal, IIT Guwahati</b> Title: "Transition metal oxides as carrier selective contacts for c-Si based solar cells."
3.50 to 4.20 pm	<b>Invited Talk 3: Dr. Sushil Kumar, NPL New Delhi</b> Title: "Circular Economy approach towards Reclamation of Materials from End-of-Life Photovoltaic Panels for Sustainable development."
4.20 to 4.40 pm	<b>TEA BREAK</b>
4.40 – 5.30 pm	<b>ORAL (5)</b> 1. P-101 (Yashwant Kumar Singh) 2. P-125 (Dr. J. Lashmi Prasanna) 3. C-319 (Vishnu Vijay ) 4. P-120 (Dr. T R Lenka)

## 19<sup>th</sup> December 2025 Venue: School of Electronics Engineering

<b>SESSION –I (New Conference Hall, OAT)</b> (9.00 am to 1.00 pm)	
	<b>Session Chair: Prof. J K Rath</b>
<b>9.00 to 9.40 am</b>	<b>ORAL PRESENTATION (3)</b> 1. N-202 (Neha Saini) 2. C-303 (Indu Gupta) 3. P-118 (Deenbandhu Sharma)
<b>9.40 to 10.25 am</b>	<b>KEYNOTE: Prof. Amlan J Pal, IACS, Kolkata</b> Title: "How to Draw the Energy Diagram of Your Perovskite Solar Cells."
<b>10.30 to 11.00 am</b>	<b>Invited Talk 4: Dr Abhijit Ray, Pandit Deendayal Energy University, Gandhinagar</b>  Title: "Solar Hydrogen Generation – Materials to Systems."
<b>11.00 to 11.20 am</b>	<b>TEA BREAK</b>
<b>11.20 to 11.50 am</b>	<b>Invited Talk 5: Dr Puspashree Mishra, SSPL, DRDO, New Delhi</b> Title: "MBE growth of III-V semiconductor based device structures for application in next generation IR detectors."
<b>11.50 to 12.20 am</b>	<b>Invited Talk 6: Prof P Malar, SRM University, Chennai</b> Title: "Binary Chalcogenides for Thin Film Photovoltaics."
<b>12.20 – 12. 50 pm</b>	<b>Invited Talk 7: Dr Sakhthivel, Centre for Solar Energy Materials, ARCI, Hyderabad</b>  Title: ""Functional Materials and Coatings for PV and Solar Thermal Applications: From Lab-Scale Development to Technology Demonstration"
<b>1.00 to 2.00 pm</b>	<b>LUNCH BREAK</b>
<b>SESSION –II (New Conference Hall, OAT)</b> (2.00 to 6.45 PM)	
<b>Session Chair</b>	<b>Dr Chetan Panchal</b>
<b>2.00 to 2.30 pm</b>	<b>Invited Talk 8: Dr. Balaji, Yuan Ze University, Taiwan</b>  Title: "Tailoring Optoelectronic Properties of Inorganic Materials for Thin-Film Transparent and Semitransparent Solar Cells."

2.30 to 3.00 pm	<b>Invited Talk 9: Prof. Zacharie Victor Samuel Nathana Jehl, UPC, Spain</b> Title: "SOLEY: Quantitative Solar Cell modelling via transfer matrix and extended detailed balance"
3.00 to 3.30 pm	<b>Invited Talk 10: Dr Kushagra Nandan</b> Title: "Solar Manufacturing Scale-up in India and investments to support India's ambition towards energy self reliance"
3.30 to 3.50 pm	<b>Invited 11: Dr. (Ms.) Anisha Mohapatra, Manager, Cell and Module Industrial Integration, Reliance Industries, Gujarat</b> Title: "Application of Thin films in Optoelectronics and Energy Storage Applications"
3.50 to 4.10 pm	<b>ORAL , IMRA</b> 1. P-113 (Dr. Harinada Chary Devoju) 2. P-114 (Dr. Mareedu Sreenivasu)
4.15 to 4.30 pm	<b>TEA BREAK</b>
4.30 to 5.00 pm	<b>Invited Talk 12: Prof. Pirmin Preis, ISC-Konstanz, Germany</b> Title: "Challenges and chances of GW solar cell manufacturing ramp up outside of China"
5.00 to 5.40 pm	<b>ORAL:</b> 1. P-129 (Anamika Mishra) 2. P-137 (Debendra P Panda) 3. P-141 ( Amit Kumar Harit)
5.45 to 6.30 pm	<b>Keynote: Prof. W. N. Shafarman, IEC, University of Delaware, USA. (ONLINE)</b> Title: <i>Thin Film Photovoltaics using Chalcogenide Materials: Cu<sub>2</sub>Se to Cu(InGa)Se<sub>2</sub> to CdTe</i>

## 20<sup>th</sup> December 2025, Venue: School of Electronics Engineering

<b>SESSION –I (New Conference Hall, OAT) (9.00 am to 1.00 pm)</b>	
	<b>Session Chair: Prof Pratima Agrawal</b>
<b>9.00 to 9.40 am</b>	<b>ORAL (4)</b> 1. C-313 (Ashish Kumar Patel) 2. P-103 (Poonam Subudhi) 3. C-305 (M G Srinivasan) 4. O-511 (Sikta Mandal)
<b>9.45 to 10.10 am</b>	<b>Invited Talk 13: Dr. Bibhudutta Rout, University of North Texas, USA</b> Title: "Investigation of Radiation Tolerance and Elemental Migration in Materials and Devices at Extreme Conditions."
<b>10.10 – 10.40 am</b>	<b>Invited Talk 14: Prof. Ahmad Kirmani, Rochester Institute of Technology, USA</b> Title: "Powering the Near Earth Space with Perovskite Solar Cells."
<b>10.40 to 11.00 am</b>	<b>TEA BREAK</b>
<b>11.00 to 11.30 am</b>	<b>Oral (3)</b> 1. S-405 (Rahul) 2. O-506 (Dr. Jayashree Nayak) 3. P-122 (Vandana Nagal)
<b>11.30 to 12.00 am</b>	<b>Invited Talk 15: Dr G D Sharma, Jaipur</b> Title: "Recent advances in non-fullerene acceptor based organic solar cells : Materials, Device engineering and applications."
<b>12.00 to 1.00 pm</b>	<b>Invited Talk 16: Dr. T. Som, IOP, Bhubaneswar</b> Title:
<b>1.00 to 2.00 pm</b>	<b>LUNCH BREAK</b>
<b>SESSION –II (2.00 to 6.30 PM)</b>	
	<b>Session Chair: Dr P.K. Dakua</b>
<b>2.00 to 2.30 pm</b>	<b>Invited Talk 17: Prof. D K Dwivedy, MMMUT, Gorakhpur</b> Title: "Powering the Future: Breakthrough in perovskite solar cells for sustainable, low-cost and high-performance photovoltaic devices".
<b>2.30 to 3.00 pm</b>	<b>Invited Talk 18: Prof. Ritu Srivastava, CSIR-NPL, New Delhi, India</b> Title: "Next-Generation Photovoltaics: Exploring Lead-Free Perovskite Absorbers"
<b>3.00 to 3.40pm</b>	<b>ORAL (3)</b> 1. P-128 (Ashok Kherodia)

	<b>2. P-130 (Atish Kumar Sharma)</b> <b>3. S-412 (Rajesh Maurya)</b>
<b>3.40 to 4.10 pm</b>	<b>Invited 19: Dr Chetan Panchal, MSU, Baroda</b> Title: Bifacial CIGS Solar Cells: Recent Advancements and Performance
<b>4.10 to 4.30 pm</b>	<b>ORAL 1. C-326 Dr Vishwas Kumar</b> <b>2. C-328 Rajeswari Mannu</b>
<b>4.30 to 4.45 pm</b>	<b>TEA BREAK</b>
<b>5.00 to 6.30 pm</b>	<b>POSTER PRESENTATION</b>

21<sup>st</sup> December 2025,

Venue: School of Electronics Engineering, Conference Hall New Building (1<sup>st</sup> Floor)

<b>SESSION –I (9.30 am to 1.00 pm)</b>	
	<b>Session Chair: Dr. Arindam Basak</b>
<b>9.30 to 10.15am</b>	<b>Keynote Talk : Dr. Faiz Arith, Universiti Teknikal Malaysia Melaka (UTeM) Malaysia ( ONLINE)</b> Title: "From Complexity to Simplicity: Progress, Challenges, and Future Perspectives of ETL-Free Perovskite Solar Cells."
<b>10.20 to 11.30 am</b>	<b>ORAL ONLINE</b> 1. C-318 2. P-105 3. P-108 4. S-409 5. P-123 6. P-124
<b>11.30 to 11.45 am</b>	<b>Poster Online</b> 1. P-106 2. P-107
<b>12.00 to 12.45pm</b>	<b>CLOSING CEREMONY: Valedictory Session and Certificate Distribution</b>