

## **1st International Workshop**

### **Best Practices in Perovskite Solar Cell Fabrication & Scale-Up**

**Venue:** CeNSE Seminar Hall, IISc

**Date:** 6 March 2026

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#### **Workshop Theme**

Bridging fundamental photo-physics, device engineering, and industrial translation in perovskite solar cell technology - strengthening academia-industry partnerships.

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#### **Programme Agenda**

**08:30 – 08:55 AM**

**Registration**

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**08:55 – 09:00 AM**

**Welcome Address:** Workshop overview and objectives

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**09:00 – 09:30 AM**

**Prof. David Cahen**

Photophysical Insights into Perovskites: Defect Tolerance, Self-Healing & Device Performance

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**09:30 – 10:00 AM**

**Prof. Hari Upadhyaya**

Device Engineering Perspectives

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**10:00 – 10:30 AM**

**Industry Talk**

**Prof. Dinesh Kabra (ART PV)**

Translating lab-scale perovskite devices to industrially viable technologies: challenges, reliability, and scale-up pathways.

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**10:30 – 10:45 AM**

**Tea Break**

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**10:45 – 11:15 AM**

**Prof. Sushobhan Avasti**

Electrical and Photophysical Insights into Perovskites: What to look for?

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**11:15 – 11:45 AM**

**Industry Talk**

**Mr. Sooraj Kumar, P3C Technologies**

Manufacturing challenges, process standardisation, stability, and industry-driven R&D needs.

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**11:45 AM – 01:00 PM**

**Structured Group Activity (Round 1)**

Mixed groups (Students + Academia + Industry; <20 per group)

Objectives:

- \*Identify priority research challenges
  - \*Highlight translational bottlenecks
  - \*Define industry-relevant scientific gaps
  - \*Draft structured questions for the panel discussion
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**01:00 – 02:00 PM**

**Lunch Break**

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**02:00 – 02:30 PM**

**Structured Group Activity (Round 2 – Consolidation Session)**

Groups refine their discussions and submit consolidated question sets to moderators.

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**02:30 – 03:45 PM**

**Open Panel Discussion**

**Academia–Industry Interface**

**Panelists:**

- Prof. David Cahen
  - Prof. Hari Upadhyaya
  - Prof. Sushobhan Avasti
  - Prof. Dinesh Kabra
  - Mr. Sooraj Kumar
  - Dr. Laxman Gouda
  - Mr. Anand Verma
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**03:45 – 04:00 PM**

**High Tea**

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**04:00 – 05:00 PM**

**Student Technical Session**

**Standard Protocol for High-Efficiency Perovskite Solar Cell Fabrication**

- Device architecture standards
  - Processing best practices
  - Reproducibility benchmarks
  - Common pitfalls & quality control
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**05:00 – 05:05 PM**

**Closing Remarks**

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**05:05 – 05:30 PM**

**Exclusive Fabrication Facility Visit**

(For registered conference participants ONLY)