



PVSEC ROTTERDAM

Explore the CEA / INES R&D contributions to
EU PVSEC 2026, showcasing the latest advances in photovoltaic
technologies, reliability, sustainability and industrial innovation.



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CEA / INES SESSION CHAIRS



2026
14-18 SEPTEMBER



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MONDAY, SEPTEMBER 14

ORAL PRESENTATION

Session 2AO.2 · 15:15–16:45

Contactless Determination of the Series Resistance of Tandem Solar Cells – Possibilities and Limitations

J. M. Greulich · A. Fell · O. Fischer · Cyril Leon · Joël Wyttenbach · M. C. Schubert · S. Rein

POSTER PRESENTATIONS

Session 3AV.2 · 15:15–16:45

3AV.2.5

Determination of the Optical Properties of Encapsulants during UV Weathering Using a Four-Flux Model

Rosa Zaigouche-Feldis · M. Hebert · M. Darnon · Philippe Thony

3AV.2.9

Indoor Characterizations of Modules Made from Recycled Silicon

Mickael Albaric · Etienne Pihan · Marion Serasset · Guillaume Capron

3AV.2.15

Lightweight SHJ Modules with Reduced Environmental Impact: an Iterative Approach of BOM Development and Validation

Timea Bejat · L. Marthey · Adeline Lanterne

3AV.2.28

Mechanical Behaviour of Framed Glass/Backsheet PV Modules: Influence of Frame Geometry and Mounting Configuration

Paul Messaoudi · Maxime Babics · F. Giordano · Vincent Barth · Timea Bejat

3AV.2.30

Reliability of TOPCon Super Multi Busbar Modules: Role of the Soldering Flux

Germain Rey · Marion Serasset · William Denis · Lucie Pirot-Berson · Rémi Monna · Sandra Desvergne



TUESDAY, SEPTEMBER 15

ORAL PRESENTATIONS

Session 4BO.16 · 08:30–10:00

Numerical Sensitive Analysis of the Thermal Behaviour of a Building-Integrated Photovoltaic Ventilated Facade

Zeinab Aldroubi · Ya Brigitte Assoa · C. Menezo · M. Amara

Session 4BO.7 · 10:30–12:00

Choosing the Right AI Approach for PV Inspections: A Practical Comparison of Machine Learning and Deep Learning on Drone IR Imagery

Philippe Marechal · Ioannis (John) Tsanakas

Session 1BO.2 · 10:30–12:00

Inhomogeneity and Shunt Analysis in PECVD p-type nc-Si:H for Silicon Heterojunction Solar Cells

Amanda Merino Leiva · Jean Patrice Rakotoniaina · Tristan Gageot · J. Alvarez · J.-P. Kleider · Delfina Muñoz

Session 1BO.4 · 15:15–16:45

Comparative Study of 100% Copper-Based Metallization via Printing and Plating Strategies for Silicon Heterojunction Solar Cells

Gustavo Rodrigues Lopes · F. Wiedenmann · S. Bastide · Johann Jourdan · T. Hatt · Wilfried Favre

Session 3BO.15 · 17:00–18:30

Sequential UV/DH Aging Tests to Validate Silver-coated Copper Particles Paste on SHJ Solar Cells

Timea Bejat · Hugo Lajoie · Rémi Monna · Adeline Lanterne

POSTER PRESENTATION

Session 1BV.1 · 08:30–10:00

Optimization of Boron-Doped Polycrystalline Silicon Passivating Contacts on Textured Silicon Surfaces

Clarisse Laurens-Berge · Raphaël Cabal · Sébastien Dubois

WEDNESDAY, SEPTEMBER 16

ORAL PRESENTATIONS

Session 5CO.5 · 15:15–16:45

Physical and Chemical Separation of Backsheet Powders Obtained during Novel Sanding Delamination of PV Panels

Fabrice Coustier · Xavier Mackré-Delannoy · Roland Riva · Jérémie Aimé · Romain Duwald

From Wastes to Demonstrator: A Qualification Protocol for the Reuse of PV Modules

Lionel Sicot · Jérémie Aimé · M. Lacombe · A. Gouabault · S. Gresset

Session 5CO.6 · 17:00–18:30

Challenges and Opportunities for Solar Glass Recovered from High-Value Recycling

Claire Agraffeil · Xavier Mackre-Delannoy · W. Merket · D. Timmers · W. Palitzsch

Reintegrating Purified Recycled EVA from End-of-Life PV Modules into New Encapsulant Films

L. Marthey · H. Li · J. Levrat · Romain Duwald · C. Flassayer · Fabrice Coustier · Roland Riva
· Xavier Mackré-Delannoy · B. Bonnet-Eymard · T. Buonassisi · C. Ballif

THURSDAY, SEPTEMBER 17

ORAL PRESENTATIONS

Session 1-2DO.6 · 08:30–10:00

Impact of TCO-Based Recombination Layer on Selfassembled Monolayers Hole Selectivity for Monolithic Two Terminal Perovskite/Silicon Tandem Solar Cells

Sofia Flores Bahamondez · Perrine Carroy · Delfina Muñoz · David Muñoz

Session 5DO.11 · 08:30–10:00

Strengthening Climate-Resilient Photovoltaics through Coordinated Research Infrastructures: Outcomes of the CACTUS EU–Latin America Project

Ioannis (John) A. Tsanakas · Delfina Muñoz · Romain Couderc · Hervé Colin · A. Marzo · A. Sanz

Session 2DO.8 · 13:30–15:00

Up-Scaling Perovskite Growth using Hybrid Methods for Silicon/Perovskite Tandem Solar Cells

Kristell Carreric · Polyxeni Tsoulka · Louis Grenet · Elodie Gerente · Solenn Berson

Sustainable and Scalable Perovskite/Silicon Tandem Devices based on Vacuum Processes: Three Years of Development under the Horizon Europe-funded NEXUS Project

Perrine Carroy · Vincent Barth · Amandine Boulanger · Delfina Muñoz

Session 5DO.14 · 15:15–16:45

Relocating Photovoltaic Manufacturing to Europe: A Necessary but Insufficient Condition for Sustainable Photovoltaics by 2050

Déborah Moerlen · Nouha Gazbour

Session 4DO.10 · 17:00–18:30

Multi-Year Performance, Soiling and Ageing Assessment of a 14 MW Floating PV Plant Using Multi-Scale Diagnostics

Hervé Colin · Lionel Sicot · Frédéric Mezzasalma · Alexandre Mignonac · Ioannis (John) A. Tsanakas

FRIDAY, SEPTEMBER 18

PLENARY PRESENTATIONS & DIVERSITY

Session 5EO.3 · 08:30–10:00

Gender Diversity in Photovoltaics: Experiences and Support Mechanisms in the EU

P. Derin Gure · E. Pehlivanli · Ioannis Tsanakas · B. Yilmaz · Delfina Munoz

Session Plenary EP.1 · 10:30–12:30

Reframing PV Inspections at Scale: Techno-Economic Benchmarking and a Roadmap for Intelligent PV O&M and Market Transformation

Ioannis (John) A. Tsanakas · David Moser · Dhanup S. Pillai · Juan Lopez Garcia · Veronica Bermudez Benito

Thank you to all our researchers for making this week a celebration of research, collaboration and innovation in photovoltaics.

