

Energy Technology Delegation

Discover solutions for

Hydrogen • Batteries • Fuel Cells • Photovoltaics

September 1 – 2, 2026 | Trade Fair Erfurt, Germany



Join the Energy Technology Delegation

Explore coating technologies for next-generation energy systems

Are you active in the fields of ...?



 **Batteries & Energy Storage**

 **Electrolyzers & Green Hydrogen**

 **Fuel Cells**

 **Photovoltaics**

 **Power Electronics**

Surface Engineering helps you to achieve...

- ✓ Increase efficiency & performance
- ✓ Extend component lifetime
- ✓ Protect critical materials & interfaces
- ✓ Reduce material and production costs
- ✓ Enable advanced functional surfaces
- ✓ Reduce unwanted side reactions

Meet the Surface Engineering Community in the Workshop, Forum & Exhibition



*"You have an energy challenge.
We have a surface solution."*

Register via E-Mail at

ald4emo@efds.org

Code „PSE2026 Energy Delegation“

Participation free of charge!

This activity is part of the PSE2026
**International Conference & Exhibition
on Plasma Surface Engineering**
<https://pse-conferences.net/>
August 31 – September 3, 2026 |
Trade Fair Erfurt, Germany

Organized in Cooperation of



Program Overview

Tuesday, September 1, 2026

- 10:00 – 15:30
Industrial Workshop
Meet the Coating experts and discuss industrial demands with the coating industry
- 16:00 – 17:00
Guided Tour through the exhibition
We present you the important players of the Coating Community.
- 17:00 – 22:00
Industrial Evening
Networking & Social Event. Get in touch with the Community.

Wednesday, September 2, 2026

- 09:30 – 10:30
Poster Talks
Get an overview to recent project work and facilities working in the field.
- 10:30 – 15:00
Silent Forum
Interactive discussion for industrial offers and needs.

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Industrial Workshop “Surface engineering for clean energy solutions”

September 1, 2026 | 10:30 – 15:00 | Panorama
Saal | Trade Fair Erfurt, Germany

*organized by Ulf Seyfert, VON ARDENNE GmbH,
Germany*

Energy is the key to prosperity and development in the growing world. Surface engineering techniques such as coatings, treatments and functionalization are enabling the development of more efficient, resilient and cost-effective solutions for the energy sector. Surface properties and interactions of materials are tackling the challenges of the energy transition towards renewable and sustainable sources, energy storages, converters, distribution networks and mobility applications.

Program

Potential of PVD coatings for the ramp-up of the Hydrogen Economy

L. Dobrenizki | Siemens Energy Global GmbH & Co. KG, Erlangen, Germany

Industrial thin film coatings for hydrogen applications

S. Tervakangas | Oerlikon Balzers Coating Finland Oy, Espoo, Finland

Barrier coatings for operation under hydrogen atmospheres in combination with low friction properties

P. M. Reinders | Ionbond – IHI Group, Venlo, Netherlands

PVD Coatings for Electrolyzer Electrodes: from Dense Protective Films to Porous Catalytic Layers

S. Ekeröth | Ionautics AB, Linköping, Sweden

In-operando electrochemical impedance spectroscopy (EIS) study of different PVD coatings and materials for bipolar plates during PEM water electrolysis single cell testing

L. Mendizabal | Tekniker, Plasma Coating Technology Department, Eibar, Spain

A Scalable and Safe Roll-to-Roll Process for the Industrial Production of Lithium Metal Anodes by PVD

N. Rivolta | AGC Glass Europe, AGC Plasma, Gosselies, Belgium

Homogeneous Titanium Coatings for Integrated Solar-to-Hydrogen Generation by CdTe-based Photovoltaics

D. Loch | Trumpf Hüttinger GmbH & Co. KG, Freiburg, Germany

Inhibiting Oxygen Incorporation During Large-Area Sputter Deposition of Phosphorus-Doped Amorphous Silicon

V. Linß | VON ARDENNE GmbH, Dresden, Germany

Development of ceramic coatings for the fusion energy industry

T. Sgrilli | Gencoa Ltd., Liverpool, United Kingdom

Plasma Surface Engineering to Enhance Material Compatibility in Aqueous Electrode Processing for Eco-Friendly Manufacturing of Li-ion Batteries

D. Müller | Innovative Coating Solutions, Gembloux, Belgium

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Industrial Exhibition & Industrial Evening

Guided Tour through the exhibition

September 1, 2026 | 15:30 – 16:30 |
Foyer Hall 1 | Trade Fair Erfurt, Germany

Meet the key players of the community. We present you an overview of active partners and recent offers and developments.

With Companies & Research Institutes like Ionbond BV, Nano4Energy, Plasway Technologies, scia Systems, Plansee Composite Materials GmbH, Fraunhofer IKTS, Fraunhofer IST, Leibniz IFW and others more.

<https://pse-conferences.net/exhibition-overview/>

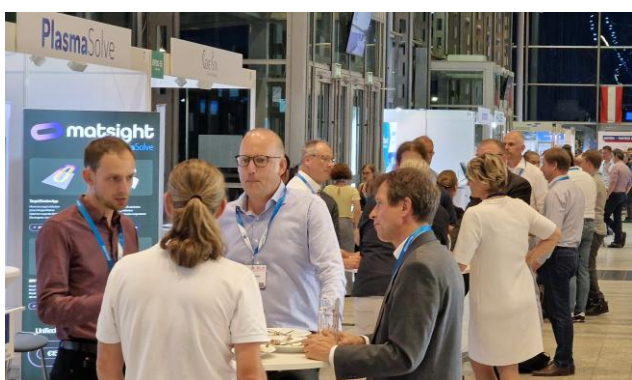
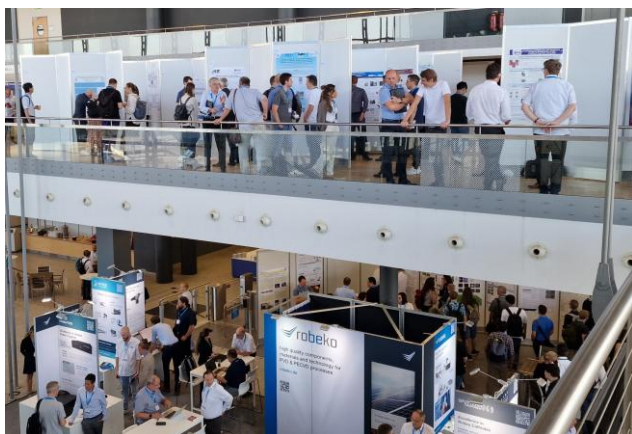


Industrial Evening

September 1, 2026 | 19:00 – 22:00 |
Foyer Hall 1 | Trade fair Erfurt, Germany

At this Social Event the complete community meets in an ambient atmosphere and gets in discussion by beer and wine.

2026 the Iberian Community will be highlighted and present their ecosystem. We are looking forward to an inspiring evening.



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Poster Talks, Silent Forum & Interactive Discussion

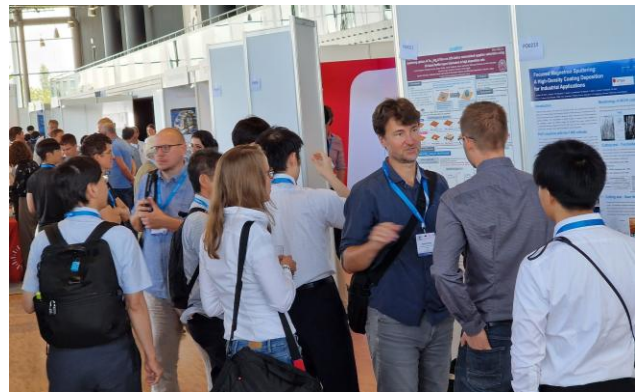
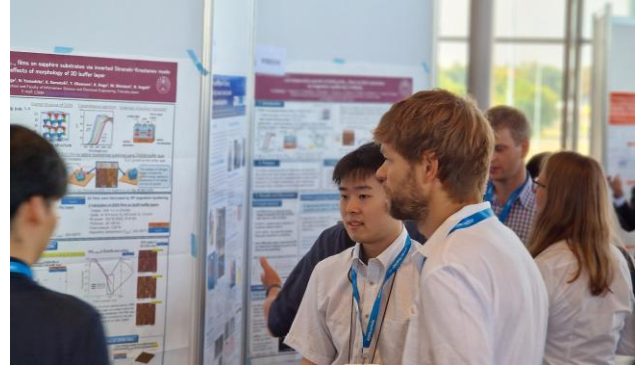
Poster Talks

September 2, 2026 | 09:30 – 10:30 |
Foyer Hall 1 | Trade Fair Erfurt, Germany

Learn from the international Community and get an impression of recent results and new projects.

Program of Poster Session on Wednesday

<https://eventclass.it/pse2026/scientific/external-program/session?s=PS-03>



Silent Forum | Coatings and Equipment for Energy Technologies

September 2, 2026 | 10:30 – 15:00 |
Foyer Hall 1 | Trade fair Erfurt, Germany

In the Silent Forum an interactive Discussion will be presented about the technological offers and the industrial needs. Discuss with leading experts recent challenges and needs for hydrogen, battery, fuel cells and photovoltaics.

Detailed Information you can find at the next page.

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Silent Forum III

„Coatings and Equipment for Energy Technologies I“

02.09.2026 | 10:30 – 12:00 | Foyer Hall 1

Moderation: André Wahl, Energy Saxony, Germany

From Batteries to Fusion: Vacuum-Based Plasma and Electron Beam Technologies for Energy Applications

Christian May, Fraunhofer Institute for Electron Beam and Plasma Technology FEP, Germany

Graphite doped Lithium based sputtering targets for DC deposition of LIPON for thin film batteries applications

Peter Polcik, Plansee Composite Materials GmbH

From MW to GW scale: Thin and uniform PVD coating production for PEM Electrolyzers

André Hieke, Ionbond, The Netherlands

PECVD Thin-Film Isolation Barriers: Achieving Cost Savings Through High-Quality Large-Area Coating

Simon Hübner, Dirk Beisenherz, SINGULUS Technologies AG, Germany

Silent Forum IV

„Coatings and Equipment for Energy Technologies II“

02.09.2026 | 13:30 – 15:00 | Foyer Hall 1

Moderation: Martin Knaut, IHM, Technical University Dresden, Germany

ALD4EMO – ALD for Energy Technologies

Katrin Ferse, EFDS e.V., Germany

Integrated Fast Atomic Layer Processing (FALP): Combined ALE and Ion-Enhanced PEALD Enabling Polycrystalline Growth and CD Control for Double Patterning on a Thermally-Coupled 300 mm ESC
Stephan Wege, Plasway-Technologies GmbH, Germany

ALD supercycle processing for wide band gap materials (IGZO, AZO, AlGaIn)

Jessica Schneidewind, SENTECH Instruments GmbH, Germany

In-situ Monitoring of Atomic Layer Processes

Martin Knaut, ALS Metrology GmbH, Germany

Productive automation for ALD-processes inside and outside vacuum

Aron Strobel, LSA GmbH, Germany

Atomic Layer Deposition is the perfect coating technology for your highly precise and pinhole free barrier coating with high potential for energy applications. Meet the experts and get in discussion about future projects.

