

JUNE, 16 TO 19, BRAGA, PORTUGAL

EPOSS ANNUAL FORUM 2026



EPOSS.
European Association on
Smart Systems Integration



INTERNATIONAL IBERIAN
NANOTECHNOLOGY
LABORATORY

SENSING THE FUTURE: BUILDING THE INTELLIGENT EDGE



Sponsors: ATLANT 3D



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Portuguese Competence Centre in Semiconductors



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Agenda Draft (Status: June 2026)

You can find the latest version of the programme on the EPoSS website:

<https://www.smart-systems-integration.org/event/eposs-annual-forum-2026/>

EPoSS Members only	EPoSS Annual Forum 2026		EPoSS Full Members only
EPoSS Day Tue, June 16 from 12 pm	Day 1 Wed, June 17	Day 2 Thu, June 18	EPoSS General Assembly Fri, June 19 until 1 pm
Annual Report Workshops ExCom Meeting	Opening Session Spotlight Session Autonomous Systems & Robotics, Quantum Sensing, Embedded AI Deployment Technical Sessions Advanced Packaging Photonics Poster Session 1 Company Corner Panel Discussion	Technical Sessions Green ECS, Sensors, Health EPoSS Start-up Award & POEMS Start-up Award Poster Session 2 Company Corner Site Visits	EPoSS General Assembly
EPoSS Executive Committee Dinner	EPoSS Dinner Event	EPoSS Dinner Event & Start-up Award Ceremony	

Congress Location

INL - International Iberian Nanotechnology Laboratory

Av. Mte. José Veiga s/n, 4715-330 Braga, Portugal

<https://www.inl.int/>

Social Media: [EPoSS on LinkedIn](#), [INL on LinkedIn](#)

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Tuesday, June 16 | EPoSS DAY

12:00 – 13:00 Registration and Lunch

13:00 – 16:45 EPoSS thematic sessions

13:00 – 14:00 **Chips JU 2.0 and ECS SRIA structure 2028+** (Room: Auditorium)
Elisabeth Steimetz, Matthias Kühnel, Christina Hirschl

14:00 – 14:15 Break

14:15 – 15:15 **Green ECS**
(Room: Auditorium)
Erika Györvary

Skills (Vision room)
Cian Ó Murchú

**Autonomous systems
and robotics**
(Conference room)
Elisabeth Steimetz,
Inessa Seifert

15:15 – 15:45 Coffee Break

15:45 – 16:45 **Quantum enabling
technologies**
(Vision room)
Elisabeth Steimetz

EDIH & CCC & PL network
(Room: Auditorium)
Sven Spieth, Mariana
Fernandes, Erika Györvary,
Inessa Seifert, Katharina
Neubert

Advanced Packaging
(Conference room)
Przemyslaw Gromala,
Vesna Müller

16:45 – 17:00 Break

17:00 – 18:30 **EPoSS Executive Committee Meeting** (Room: Auditorium)

19:00 EPoSS Executive Committee Dinner | INL Interior Garden

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Wednesday, June 17 | EPoSS Annual Forum 2026

08:00 – 09:00 Registration and Welcome coffee

09:00 – 10:30 **Opening Session: Chips Act 2.0 and future framework programme**
Session Chair: Guido Ceresole, Chairman of the Executive Committee of EPoSS e.V.

09:05 – 09:10 Welcome by EPoSS Dr. Wolfgang Dettmann, Vice
Chairman of EPoSS e.V.

09:10 – 09:30 Welcome by Local Host Clivia Sotomayor, Director
General, International Iberian
Nanotechnology Laboratory

09:30 – 09:50 Two steps forward: the Chips Act 2.0 Arian Zwegers, Deputy head;
DG CNECT, European
Commission

09:50 – 10:10 Strengthening Semiconductor Competences in
Portugal: National Strategy and European
Cooperation Afonso Duarte, National
delegate and NCP for Chips
JU, ANI

10:10 – 10:30 Q & A

10:30 – 10:45 Break

10:45 – 12:00 **Spotlight Session 1: Sensing the Future: Building the Intelligent Edge**
Session Chair: Filipe Alves, INL

10:45 – 11:05 AI Meets the Physical World Tobias Helbig, NXP

11:05 – 11:25 Quantum Sensing for Early Disease Detection –
From Technology to Medical Impact Reiner John, AVL

11:25 – 11:40 Fluxless thermo-compression & D2W hybrid bonding
for AI chiplet systems and cryogenic electronics Birgit Brandstätter, Besi

11:40 – 11:55 Beyond SDV – the AI-defined vehicle paradox Mateusz Majer,
AUMOVIO Germany GmbH

12:00 – 13:00 Lunch

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13:00 – 14:00

Session 2: Beyond the Chip: Advanced Packaging for Next-Gen Smart Systems

Session Chair: Matthias Kühnel, Robert Bosch GmbH

13:00 – 13:15

e²LEAD: Towards Highly Integrated Automotive Electronics with Chiplet Technology and Digital Twin Integration

Przemyslaw Gromala,
Robert Bosch GmbH

13:15 – 13:30

E2PACKMAN – European Consortium for Accelerating Innovations in Electronic Packaging Manufacturing

Vesna Müller,
Infineon Technologies AG

13:30 – 13:45

Reducing Human Error in Chip Inspection with Deep Learning

Luis Custodio, Amkor

13:45 – 14:00

Materials, Fabrication and Heterogeneous Integration of Magnetics-on-Silicon for DC-DC Converters in Interposers: Building Europe's Integrated Power Ecosystem through the FAMES Pilot Line

Cian Ó Murchú,
Tyndall National Institute

14:00 – 15:30

Poster Session and Poster Gallery Part 1 including Coffee (see Appendix I)

Session Chair: Sven Rzepka, Fraunhofer ENAS

15:30 – 16:30

Session 3: The Future of Packaging: Design, Modeling and Breakthrough Technologies

Session Chair: Dr. Wolfgang Dettmann, Infineon

15:30 – 15:45

Thermal-Aware Architectural Evaluation for 3D Advanced Packaging via Enhanced Compact Modeling

Paolo Prete, Monozukuri

15:45 – 16:00

Direct Atomic Layer Processing (DALP®) for MEMS, Sensors and other functional device applications

Laszlo Izso, ATLANT 3D

16:00 – 16:15

Ultra-Precise Dispensing as a Circuit Editing Tool in Advanced Semiconductor Packaging

Piotr Kowalczewski, XTPL

16:15 – 16:30

Reliability by Design across the Value Chain for Modern Electronics Packaging

Jan Albrecht,
Fraunhofer ENAS

16:30 – 17:00

Break

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17:00 – 18:00

Session 4: Lighting the Way: Photonics as the Driver of Tomorrow's Technology

Session Chair: Michael Scholles, Fraunhofer IPMS

17:00 – 17:15	Industrialization of Integrated Photonics	Abdul Rahim, PhotonDelta
17:15 – 17:30	Photonic Integrated Circuits in telecom and datacom – PICadvanced perspective	Francisco Rodrigues, PICadvanced
17:30 – 17:45	Application of Functional Integrated photonics to Novel computing Architectures	Guillermo Hermoso Lopez, Gradiant
17:45 – 18:00	Integrated planar optics and their role in manipulating the electromagnetic spectrum	Diogo Aguiam, International Iberian Nanotechnology Laboratory

18:00 – 19:00

Panel Discussion: Industrializing Integrated Photonics in Europe: The Role of Pilot Lines, CCCs and the Chips Act 2

Session Chairs: Marina Dias, INL | Elisabeth Steimetz, EPoSS

18:00 – 18:10	Introduction: Chips JU initiatives and investments on Integrated Photonics	Jari Kinaret, Chips JU
18:10 – 18:15	Pitch of PIXEurope Pilot Line	Marina Santana-Vega, ICFO
18:15 – 19:00	Roundtable: Industrializing Integrated Photonics: The Role of Pilot Lines, CCCs and Chips Act 2?	Jari Kinaret, Chips JU Marina Santana-Vega, ICFO Abdul Rahim, PhotonDelta Francisco Rodrigues, PICadvanced

19:30

EPoSS Dinner Event at Bô Zen Open-Air Dinner & Party

Buses leave at 19:30 from INL and take 30 minutes to reach the evening venue. The return journey departs at 23:00 – buses stop at INL and in the city centre.

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Thursday, June 18 | EPoSS Annual Forum 2026

08:00 – 09:00 Registration and Welcome coffee

09:00 – 10:30 Session 5: Building a Green Future for ECS
Session Chairs: Erika Györfvay, CSEM | Vincent Le Meau, Aeneas

09:00 – 09:15	Sustainable Smart Electrochemical C-Peptide Sensor with Low CRM Footprint	Alberto Zandara, CSEM
09:15 – 09:30	Materials and Processes towards sustainable PCB manufacturing based on paper	Daniela Collin, Fraunhofer ISC
09:30 – 09:45	Combining lignocellulosic materials and additive manufacturing towards net-zero and sustainable electronics for IoT and single use healthcare applications	Valerio Beni, RISE Research Institutes of Sweden
09:45 – 10:00	A Flexible Printed Electronics Approach to Sustainable Smart Systems	Paulo Pedrosa, DTx
10:00 – 10:15	EcoDesign of health care applications based on sustainable printed electronics	Margreet de Kok, TNO
10:15 – 10:30	Life Cycle Assessment of printed electronics – what we know and what we don't	David Sánchez, Fraunhofer IZM

10:30 – 11:00 Coffee Break

11:00 – 12:00 EPoSS Start-up Award & POEMS Start-Up Award
Session Chair: Martin Martens, EPoSS

12:00 – 13:00 Session 6: Sensing the Future – Enabling Intelligent Systems
Session Chair: Sywert Brongersma, imec

12:00 – 12:15	Overcoming MEMS Commercialization Challenges: The Strategic Advantage of an Experienced European Foundry Partner	Matthias Kühnel, Robert Bosch GmbH
12:15 – 12:30	Spintronics	Ricardo Ferreira, International Iberian Nanotechnology Laboratory

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12:30 – 12:45	Energy Autonomous integrated IoT sensor for resilient and sustainable industry	Cristina Rusu, RISE Research Institutes of Sweden
12:45 – 13:00	An integrated smart monitoring system for validation and optimisation of domestic and community composting	Magda Barros, CeNTI
13:00 – 14:30	Lunch	
14:30 – 16:00	Session 7: Smart Systems for a Healthier Tomorrow Session Chair: Sven Spieth, Hahn-Schickard	
14:30 – 14:45	MedTech Platforms at Holst Centre – TNO: Integrated Technologies for the Future of Healthcare	Jayeeta Sengupta, TNO
14:45 – 15:00	DistriMuSe: Distributed multi-sensor systems for human safety and health	Verena Bach, Infineon Technologies AG
15:00 – 15:15	A novel implantable multiparameter sensor capsule and eHealth platform for diagnosing GERD	Eamonn Hawe, Tyndall National Institute
15:15 – 15:30	Eco-Designed Wearable Optical Microsystem for Continuous Sweat-Based Glucose Monitoring	Alfredo E. Ongaro, Onalabs Inno-Hub
15:30 – 15:45	VTT PMUT Technology: Miniaturized, Low-Power Ultrasound for the Next Generation of Wearable and Implantable Devices	Cyril Karuthedath, VTT Technical Research Centre of Finland
15:45 – 16:00	Flexible silk-based radiochromic thin films for wearable X-ray dose monitoring	Naseer Ahmad, IMB-CNM
16:00 – 17:30	Poster Session and Poster Gallery Part 2 including Coffee (see Appendix II) Session Chair: Diogo Aguiam, INL	
17:30 – 19:00	Site Visits	
19:00	EPoSS Gala Dinner & Start-up Award Ceremony Dinner at Colunata, Bom Jesus Buses 19:00 from INL (30 min to venue), return at 22:30 (stop at INL and city centre).	

End of Annual Forum 2026

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EPoSS Full Members only

Friday, June 19 | EPoSS General Assembly

08:00 – 09:00 Welcome Coffee

09:00 – 12:00 EPoSS General Assembly

Please note that this event is exclusively for EPoSS Full Members.

12:00 – 13:00 Lunch

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APPENDIX I

No.	Wednesday, June 17, 14:00 – 15:30 Poster Pitches and Poster Sessions Part 1	
1	APECS Pilot Line: Your Gateway to Heterogeneous Integration & Packaging Technologies	Konstanze Scheurer, Research Fab Micro-electronics Germany
2	European Research Infrastructure on Semiconductor Chips	Cian Ó Murchú, Tyndall National Institute
3	Creating future of advancing chip technology in Slovakia	Martin Jagelka, SKChips
4	Finland at the global forefront of quantum technologies	Eija Tuominen, VTT Technical Research Centre of Finland
5	CHAMP-ION, the European pilot-action on ion-traps	Andreas Tortschanoff, Silicon Austria Labs
6	SARAH project, design and development of a user-centered infrastructure reliable assessment and healing solution	Isabelle Dor, Cea Leti
7	EXPANSE AI - Empowering X-sector Pilots for EuropeAn and interNational Scale-up and compETitiveness in AI	Inessa Seifert, VDI/VDE-IT
8	Edge Computing Modules for Resilient Electronics Manufacturing with Adaptive Process Optimization	Matthias Heimann, Siemens AG
9	Cloud platform for federated data with an artificial intelligence layer for the genetic and reproductive improvement of the national dairy sheep sector	Diego Reiriz Cores, Gradient
10	Silicon nitride ultra-thin films by PEALD for integrated photonics and quantum optics	Manuel Silva, Universidade do Minho
11	A photonic self-interference cancellation platform enabling simultaneous transmit–receive in shared bands	Héctor Casas Ruiz, Gradient
12	Development of silicon integrable all-solid-state thin-film Lithium-ion μ -batteries	Diogo Costa, International Iberian Nanotechnology Laboratory
13	Flexible Battery System Emulation: A Modular and Sustainable Approach to Multi-Cell and Multi-Chemistry Characterization	Rafael Gonçalves, Controlar Innovating Industry
14	Smart Automatic Monitoring System for Lithium and Sodium Ions in Battery Recycling Processes	Samuel Silva, International Iberian Nanotechnology Laboratory
15	Integrated printed systems for in-situ thermal and mechanical monitoring of structural batteries	Luís Sousa, CeNTI

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No.	Wednesday, June 17, 14:00 – 15:30 Poster Pitches and Poster Sessions Part 1	
16	AMR current sensors for battery systems monitoring	Gustavo Santos, CeNTI
17	Solid-State Thin-Film Lithium-Ion Micro-Batteries for Microelectronic Devices	Chadrasekhar Loka, International Iberian Nanotechnology Laboratory (INL)
18	BMS-Scan: An Intelligent Diagnostic Device for Safe, Automated Battery Module Assessment Across Sorting, Transport and Storage	Khiem Trad, VITO
19	Luxor: A Perpetual Batteryless Sensing Device Targeting Real-world Long-life Applications	Diogo Gonçalves, Fraunhofer Portugal AICOS
20	Energy Harvesting-Powered Autonomous Smart Sensor Node with Adaptive Energy Management for Remote Monitoring Applications	Ann Theresa Babu, Model Engineering College, Kerala
21	SmartEdge: From Static Storage to Intelligent, Distributed Battery Systems for Adaptive Grid Support	Khiem Trad, VITO
22	LUCYD: Lifecycle Unified Cell sYstem for autoDiagnostic	Guillaume Thenaisie, VITO
23	Embedded Microsensing Solutions for Smart Monitoring of photovoltaic cells in energy generation systems	João Barros, CeNTI
24	Zn(O,S) as a Transparent and Non-Toxic Buffer in Semi-Transparent Photovoltaics for Building Integrated Photovoltaics	Gabriel Quartin, International Iberian Nanotechnology Laboratory (INL)
25	EDISON: From Smart V2G Charging to Virtual Power Plants: Edge AI for Decentralized Energy Management	Gleb Radchenko, Silicon Austria Labs
26	Micro-patterned windows for thermal energy harvesting	Carlos Jose Tavares, Universidade do Minho
27	Smart integrated and interactive water heater, Sensing Home Use Case	Rafael Fernandes, CeNTI
28	An integrated framework for defect detection in FSW using Machine Learning and multimodal NDT data fusion	Marta Ingelmo, Cidaut Foundation

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APPENDIX II

No.	Thursday, June 18, 16:00 – 17:30 Poster Pitches and Poster Sessions Part 2	
29	EuroCDP	Romano Hoofman, European Chips Design Platform
30	BlueGarden: A Balanced EDA Environment for Open-Source IC Design Workflows	Juan Sebastian Moya-Baquero, SymbioticEDA
31	New Manufacturing Technologies at Holst Centre – TNO: Enabling Next-Generation Manufacturing	Jayeeta Sengupta, TNO
32	Optimization of Copper-Plated Redistribution Layers for Heterogeneous Integration in Transparent Substrates	José Fernandes, International Iberian Nanotechnology Laboratory
33	Ultra-Wideband Geolocation in Textile Industry	Paulo Teixeira, CeNTI
34	Flexible Li+ ion electrochemical sensor	Ricardo Campos, CeNTI
35	FEA-based Numerical Evaluation of Hybrid Copper-YBCO Micro-Architectures for High-Gradient Magnetic Fields in Quantum Ion Traps	Sounak Sankar Nandi, Fraunhofer Institute for Electronic Nanosystems
36	Broadband Optical Properties and Thermal Stability of Thermal Evaporated GST and GSST Thin Films for reconfigurable Metalens Applications	João Borlido, Universidade do Minho
37	Direct Atomic Layer Processing (DALP): A Scalable Platform for Precision Nanocatalyst Manufacturing for energy and environmental applications	Ruchi Sharma, ATLANT 3D
38	Surface Pre-Treatment Impact on ALD Selectivity for Next-Generation Semiconductors	Rui Loureiro, International Iberian Nanotechnology Lab.
39	Fully Diffractive Optical System for Camera Applications	Filipe Camarneiro, International Iberian Nanotechnology Lab.
40	Low-cost transparent coatings for infrared-shielding	Manuel Macedo, International Iberian Nanotechnology Lab.
41	Photonic system for in-situ monitoring of N-P-K soil macronutrients	Ricardo Machado, Universidade do Minho
42	Autonomous Water Treatment and Reuse System for Monitoring and Real-time Cycle Optimization	Adriana Cunha, CeNTI
43	Environmental Gas and VOC Sensing Systems for Wildfire risk management	Luis Fonseca, IMB-CNM
44	Neupills: enhancing medication adherence	Tânia Nunes, CeNTI

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No.	Thursday, June 18, 16:00 – 17:30 Poster Pitches and Poster Sessions Part 2	
45	SmILE: Smart Implants for Life Enrichment	Miguel Soares, Fraunhofer Portugal AICOS
46	Miniaturised Brillouin Spectroscopy for Non-Invasive Monitoring of Skin Hydration and Viscoelasticity Towards Wearable Smart Devices	Patricia Costa, Universidade do Minho
47	Advancing chronic wound care with ionic liquid-crosslinked microneedle biosensors	Raquel Lemos Pereira, International Iberian Nano- technology Laboratory
48	Contactless glucose monitoring in organ-on-a-chip systems using NIR/MIR spectroscopy	Ekaterina Möhr-Vorobeva, CSEM
49	Comparative analysis of structured clinical-based, imaging, and multimodal AI approaches for clinically significant prostate cancer detection	Carlota Cañamero Herrero, Gradiant
50	Towards Sustainable Smart Systems: Development and Integration of a New Generation LDS-MID EEG Sensor	Luciano Rietter, PIEP – Centre for Innovation in Polymer Engineering
51	Advancing printed-based NFC tags: application-oriented design and optimisation towards tuned performance	Cristina Furtado, CeNTI
52	Silk Fibroin as a sustainable alternative to PET for flexible printed electronics	Aida Visús Martínez, IMB-CNM
53	Optimization of cellulose fibre-based substrates for sustainable electronic applications	Cláudia Buga, DTx
54	Laser-induced graphene for sustainable energy applications	Alessandra Imbrogno, Tyndall National Institute
55	Climate Impacting Gases in R&D cleanrooms	Erik Schumann, Fraunhofer Institute for Photonic Microsystems
56	Reliability and Electromechanical Performance of 3D-Printed Flexible Pressure Sensors in Automotive Environments	Djibril Ndiack Faye, DTx
57	Using data from driving trials to tune and validate the performance of driver behavioural models in the CCAM framework	Jorge Velasco-Manrique, Cidaut Foundation
58	Smart Posts for safer and sustainable bicycle paths	Diogo Moutinho, CeNTI