

PROGRAM

Monday 17 November

08:00-	Registration & Networking
09:00-09:30	Official Opening Ceremony ICEFPE25
09:00-09:10	Welcome by the Chairman S. Logothetidis, <i>Chairman ICEFPE25</i>
09:10-09:30	Official Openings and Government Policies V. Marinakis, <i>Representative of Mayor of Athens, President of DAEM SA of the Municipality of Athens, Greece</i> P. E. Vardas, <i>Representative of the President of PASOK-KINAL Political Party, Secretary of Research and Technology Sector of PASOK-KINAL, Greece</i>
09:30-11:30	Building the FPEs Green Industry, Green Energy & Health for a Climate - Neutral Economy Session 1 Chair: A. Laskarakis
09:30-10:00	Building a Sustainable and Green Manufacturing Industry of Flexible Printed Organic Electronics Keynote S. Logothetidis, <i>Nanotechnology Lab LTFN/COPE-Nano, HOPE-A, Greece</i>
10:00-10:30	Polymers, electronics and the genesis of polymer printed flexible electronics Keynote G. Hadziioannou, <i>University of Bordeaux, France</i>
10:30-11:00	Novel Materials and Device Architectures for Wearables Keynote G. Malliaras, <i>University of Cambridge, UK</i>
11:00-11:30	Aesthetic Sustainability: Embedding Organic Photovoltaics into Architectural Design and Building Construction Invited I. Gkaragkos, <i>OET Energy Technologies, Greece</i>
11:30-12:00	Coffee, Networking, Posters, Exhibitors
12:00-13:30	Digital and Intelligent Manufacturing of FPEs for Energy Session 2 Chair: D. Tselekidou
12:00-12:30	Digitalization of every step in the production value chain - How to get from digital twins to Coating as a service Keynote T. Kolbusch, <i>Coatema Coating Machinery GmbH, Germany</i>
12:30-13:00	Outdoor Reliability and Metastability of Perovskite Photovoltaics Keynote E. Kymakis, <i>Hellenic Mediterranean University Research Center, Greece</i>
13:00-13:30	Inline optical metrology solutions for OPV production line Invited T. Brigancz, <i>Semilab Semiconductor Physics Laboratory Co. Ltd., France</i>
13:30-14:30	Lunch, Networking, Posters, Exhibitors
14:30-16:45	FPEs Manufacturing, Processes and Integration Session 3 Chair: S. Kassavetis
14:30-15:00	Scaling Organic Photovoltaics for Industrial Production: From Pilot to Product Keynote E. Mekeridis, <i>OET Energy Technologies, Greece</i>
15:00-15:30	Development of Femtosecond Laser Patterning Systems for P1, P2 P3 Process for Digital Patterning of OPV Cells, Enabling Differentiated Design with Freeform Shapes Invited V. Sabonis, <i>Workshop of Photonics, Lithuania</i>
15:30-16:00	Laser Manufacturing Technologies for Flexible Electronic Applications Invited C. Kapnopoulos, <i>LTFN/COPE-Nano, Greece</i>
16:00-16:30	Roll-to-Roll Spatial Atomic Layer Deposition: A Key Enabling Technology for Flexible Electronic Devices Encapsulation Invited H.W. de Vries, <i>SALD B.V., The Netherlands</i>
16:30-16:45	Printed and Flexible Displays: Techniques, Optical Measurements and Testing K. Blankenbach, <i>Display Lab, Pforzheim University, Germany</i>
16:45-18:00	Advanced Materials, Testing & Multiscale Modelling for FPE Devices Session 4 Chair: K. Porfyrakis
16:45-17:15	Advancing Printed Organic and Perovskite Photovoltaics: Scalable Fabrication and Metrology for Next-Generation Flexible Solar Technologies Invited A. Laskarakis, <i>LTFN/COPE-Nano, Greece</i>
17:15-17:45	Non-destructive Characterization of films and coatings in the nm-μm scales by White Light Reflectance Spectroscopy (WLRS) Invited D. Goustouridis, <i>R&D Manager & Co-founder, ThetaMetrisis SA, Greece</i>
17:45-18:00	Unravelling the path towards fully additive manufactured electrochemical devices through transformable binder inks I. Petsagkourakis, <i>RISE Research Institutes of Sweden, Unit of Bio-and-Organic Electronics, Sweden</i>
18:00-20:00	ICEFPE25 & AGRIVOLTAICS 2025 Posters, Coffee, Networking (Room Socrates B & C)
21:00	Dinner for ICEFPE25 Invited Speakers

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Tuesday 18 November

08:00-	Registration & Networking
09:00-11:30	Green Energy for Smart Cities and Sustainability Session 5 Chair: A. Laskarakis
09:00-09:30	Artificial Intelligence for Smarter Energy Management: The Cases of Crete and Athens Keynote V. Marinakis, <i>Division of Industrial Electric Devices and Decision Systems, NTUA / President, DAEM SA., Greece</i>
09:30-10:00	Climate Contract of Athens: From its participatory drafting to its implementation Invited N. Chrysogelos, <i>Athens Deputy Mayor of Climate Governance and Social Economy</i>
10:00-10:30	OPV Global Technology Leadership Opportunities & Challenges Invited E. Margaritis, <i>OET Energy Technologies, Greece</i>
10:30-11:00	Integrating Organic Printed Photovoltaics into Building Envelopes: Alumil's Role in the Flex2Energy Project Invited M. Vlachaki, <i>EU Co-funded Projects Associate, ALUMIL, Greece</i>
11:00-11:30	Enhancing the Long-Term Stability of Integrated OPVs Invited S. Zygridou, <i>OET Energy Technologies, Greece</i>
11:30-11:45	Integrating Balcony Photovoltaics into Urban Energy Systems: Potential Assessment for Indian High-Rise Buildings S. Ghosh, <i>Center For Study of Science, Technology & Policy (CSTEP), India</i>
11:45-12:15	Coffee, Networking Break, Posters, Exhibitors
12:15-13:45	Flexible Printed Electronics, Sensors and Biosensors (Healthcare, Wellbeing, Defense, Environment, and Agriculture) (Part A) Session 6 Chair: K. Porfyrakis
12:15-12:45	Flexible Electronics Utilizing Printed Technologies: Device Applications Invited G. Kaltsas, <i>Head of the microSENSES Lab, University of West Attica, Greece</i>
12:45-13:15	Digital Material & Product Passport for Flexible Printed Electronics: Status Quo and Outlook Invited A. Laskarakis, <i>LTFN/COPE-Nano, Greece</i>
13:15-13:45	R&D Infrastructures for Integrated Services for Flexible Printed Electronics Start-Ups & SMEs Invited S. Kassavetis, <i>LTFN/COPE-Nano, Greece</i>
13:45-14:30	Lunch, Networking, Posters, Exhibitors
14:30-16:00	Flexible Printed Electronics, Sensors and Biosensors (Healthcare, Wellbeing, Defense, Environment, and Agriculture) (Part B) Session 6 Chair: S. Kassavetis
14:30-15:00	Printed Biosensors for Early Diagnosis and Disease Monitoring Invited K. Tsimenidis, <i>OET Energy Technologies & BL Nanobiomed, Greece</i>
15:00-15:30	Screen-printed electronic insole for foot pressure analysis Invited A. Agreda, <i>Research Engineer, ELORPrintTec, France</i>
15:30-15:45	Toward Circular Sensing: Reusable Printed Sensor Technologies and Sustainable Materials Innovations in the EECONE Project M. Zahid, <i>Quantum Technologies, Optronics & Material Laboratories, Innovation Labs, Italy</i>
15:45-16:00	Beyond ITO: Highly Conductive and Transparent PEDOT Films Tuned with Bio-derived, Food-based Additives I. Petsagkourakis, <i>RISE Research Institutes of Sweden, Unit of Bio-and-Organic Electronics, Sweden</i>
16:00-18:00	Green Energy for Autonomous Islands and Sustainability Session 7 Chairs : A. Laskarakis, D. Tselekidou
16:00-16:30	Interactive Green Park of Chalki: A Living Demonstration of Sustainable Island Technologies Keynote E. Bekiaris, <i>Director General of CERTH, Greece</i>
16:30-17:00	Greek Islands as Beacons of Sustainability: Pioneering the Green Future Invited D. Kollias, <i>Advisor, Hellenic Ministry of Environment and Energy, Greece</i>
17:00-17:30	Enhancing the Photodynamic Activity of Nanomaterials for Water Purification Invited K. Porfyrakis, <i>COPE-Nano, Greece</i>
17:30-18:00	Third Generation Solar Panels for Pleasure Boats Invited L. Gourtsoyannis, <i>President, Istia Aigaiou, Greece</i>
18:00-20:00	ICEFPE25 & AGRIVOLTAICS 2025 Posters, Coffee, Networking Posters (Room Socrates B & C)

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PROGRAM

Wednesday 19 November

08:00-	Registration & Networking
09:00-10:00	Official Opening Ceremony AGRIVOLTAICS 2025
09:00-09:15	Welcome by the Chairman S. Logothetidis, <i>Chairman AGRIVOLTAICS 2025</i>
09:15-10:00	Official Openings and Government Policies C. Kellas, <i>Deputy Minister of Rural Development and Food, Greece</i>
10:00-11:30	Agrivoltaics Collaborative Technologies and Ventures Session 8 Chair: A. Laskarakis
10:00-10:30	A GAME CHANGER IN AGRICULTURE: Semi-Transparent Flexible PVs for Triple Land Use in GHs & Open Field Cultivations Keynote S. Logothetidis, <i>HOPE-A & Nanotechnology Lab LTFN, AUTH, Greece</i>
10:30-11:00	From Materials to Sensors, From Concepts to Insight: Advanced Sensing Technologies for Agri-Food and Environmental Applications Invited G. Kitic, <i>University of Novi Sad, Serbia</i>
11:00-11:30	Agrivoltaics in Vineyards Invited S. Koundouras, <i>School of Agriculture, Aristotle University of Thessaloniki, Greece</i>
11:30-12:00	Coffee, Networking, Posters, Exhibitors
12:00-13:30	Advancements in Crop Harvesting by Integrated OPV and OLED in Greenhouses (Part A) Session 9 Chair: K. Porfyrakis
12:00-12:30	Green-light Wavelength-selective Organic Photovoltaics for Greenhouse Application Invited Y. Ie, <i>Institute of Scientific and Industrial Research (SANKEN), Osaka University, Japan</i>
12:30-13:00	Bioland Energy: Advancing Renewable Solutions for a Sustainable Future Invited A. Symeonides, <i>Environmental Engineer, Project Coordinator & European Energy Manager, Bioland Energy Ltd., Cyprus</i>
13:00-13:30	Next-Generation Agrivoltaics: Enhancing Sustainability through OPV Integration Invited S. Michailidou, <i>OET Energy Technologies, Greece</i>
13:30-14:30	Lunch, Networking, Posters, Exhibitors
14:30-15:30	Advancements in Crop Harvesting by Integrated OPV and OLED in Greenhouses (Part B) Session 9 Chair: S. Kassavetis
14:30-15:00	Advanced LED and OLED Lighting Solutions for Enhanced Plant Growth in Smart Greenhouses Invited D. Tselekidou, <i>LTFN/COPE-Nano, Greece</i>
15:00-15:30	Climate-Smart Agriculture and Agrivoltaics: Adapting Farming to a Changing Climate Invited E. Martinidou, <i>Hellenic Organic & Printed Electronics Association (HOPE-A), Greece</i>
15:30-18:45	Optimization Strategies in Agrivoltaics and Floating PVs Session 10 Chairs: D. Tselekidou, S. Michailidou
15:30-16:00	Precision Hydroponics: A solution for problems in Greenhouses Invited G. Lyviakis, <i>IQ CROPS Ltd, Greece</i>
16:00-16:30	Agrivoltaics in practice Invited T. Stavrou, <i>Managing Director & Chairman, VALOREM, Greece</i>
16:30-16:45	Development of Bifacial Photovoltaics with Micro-Optics for Agrivoltaics and Other Applications H. Müller, <i>Green Building R&D GmbH, Germany</i>
16:45-17:00	Metal Halide Perovskite Photovoltaics for Agrivoltaics J. B. Patel, <i>Department of Physics, King's College London, United Kingdom</i>
17:00-17:30	Floating Agrivoltaics and Hydroponic Greenhouses: Water-Smart, Energy-Neutral Solutions Invited C. Hendriks, <i>Business Development Director, Genap BV, The Netherlands</i>
17:30-17:45	Technoeconomic assessment of a hybrid floating photovoltaic aquaculture system C. Sammoutos, <i>Department of Thermal Engineering, National Technical University Athens, Greece</i>
17:45-18:00	Scaling Agrivoltaics in India: Market Trends, Policy Support, Business Models and Innovative Financing S. Ghosh, <i>Center For Study of Science, Technology & Policy (CSTEP), India</i>
18:00-18:15	Techno-Economic Analysis of Agrivoltaics under PM-KUSUM Scheme in India S. Ghosh, <i>Center For Study of Science, Technology & Policy (CSTEP), India</i>
18:15-18:45	ICEFPE25 & AGRIVOLTAICS 2025 Closing Remarks
21:00	Dinner for AGRIVOLTAICS 2025 Invited Speakers / Flex2Energy

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ICEFPE25

AGRIVOLTAICS 2025

POSTERS

P01	Deposition of oxide/metal/oxide transparent conductive electrodes with tailored properties on flexible substrates M. Socol, N. Preda, <u>C. Breazu</u> , O. Rasoga, I. Stavarache, G. Petre, A. Costas, A. Stanculescu <i>National Institute of Materials Physics, Romania</i>
P02	Ion selective sensor applications using nano-carbon electrode materials and its electrochemical analysis to monitor ion in water <u>J. Park</u> <i>ETRI (AI Creative Research Lab.), 218 Gajeongro, Yuseong-gu, Daejeon, Korea</i>
P03	Innovative Design of Flexible, Fully Printed Piezoelectric Sensors for Advanced Sensing Applications <u>A. Paliagkas</u> ¹ , S. Kassavetis ¹ , C. Kapnopoulos ¹ , A. Agreda ² , S. Khiev ² , M. Chatzidis ¹ , C. Stavraki ¹ , A. Laskarakis ¹ , S. Logothetidis ^{1,3} ¹ Nanotechnology Lab LTFN / COPE-Nano, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece ² Laboratoire de Chimie des Polymeres Organiques (LCPO UMR 5629), Université de Bordeaux, CNRS, Bordeaux INP, F-33607 Pessac Cedex, France; ELORPrintTec, F-33600 Pessac, France ³ Organic Electronic Technologies (OET), 20th KM Thessaloniki - Tagarades, 57001 Thermi, Greece
P04	Molecular Doping Strategies for Improved Optoelectronic Performance in Fully Printed Flexible Organic Solar Cells <u>A. Paliagkas</u> ¹ , C. Stavraki ¹ , C. Kapnopoulos ¹ , A. Zachariadis ¹ , S. Logothetidis ^{1,2} , A. Laskarakis ¹ ¹ Nanotechnology Lab LTFN / COPE-Nano, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece ² Organic Electronic Technologies P.C. (OET) 20th KM Thessaloniki - Tagarades, 57001 Thermi Greece - Thessaloniki (Greece)
P05	Experimental parameter analysis for roll-to-roll encapsulation of Flexible printed circuit boards <u>D.S. Choi</u> ¹ , C.-W. Lee ^{1,2} , E.-J. Gwak ^{1,2} , J. S. Han ^{1,2} ¹ Nano Lithography and Manufacturing Research Center, Korea Institute of Machinery & Materials (KIMM), Daejeon, Republic of Korea ² Department of Nanomechatronics Engineering, University of Science & Technology (UST), Daejeon, Republic of Korea
P06	Encapsulation-Driven Mechanical Reliability of Roll-to-Roll Printed Flexible Organic Photovoltaic Modules <u>E. Doudis</u> ¹ , Th. Kalampaliki ¹ , S. Kassavetis ¹ , S. Zygridou ² , E. Mekeridis ² , A. Laskarakis ¹ , S. Logothetidis ^{1,2} ¹ Nanotechnology Lab LTFN / COPE-Nano, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece ² Organic Electronic Technologies (OET), 20th KM Thessaloniki - Tagarades, 57001 Thermi, Greece
P07	On the properties of copper phthalocyanine-based binary and ternary organic thin films deposited by MAPLE M. Socol ¹ , N. Preda ¹ , <u>C. Breazu</u> ¹ , O. Rasoga ¹ , A. Stanculescu ¹ , G. Petre ¹ , G. Popescu-Pelin ² , S. Iftimie ³ , G. Socol ² , A. M. Catargiu ⁴ ¹ National Institute of Materials Physics, Romania ² National Institute for Lasers, Plasma and Radiation Physics, Romania ³ University of Bucharest, Faculty of Physics, Romania ⁴ Petru Poni Institute of Macromolecular Chemistry, Romania

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P08	Ambient Fabrication of Fully Printed Flexible Perovskite Solar Modules and Stability Assessment <u>C. Stavraki</u> ¹ , S. Kassavetis ¹ , C. Kapnopoulos ¹ , A. Zachariadis ¹ , A. Paliagkas ¹ , E. Mekeridis ² , A. Laskarakis ¹ , S. Logothetidis ^{1,2} ¹ Nanotechnology Lab LTFN / COPE-Nano, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece ² Organic Electronic Technologies (OET), 20th KM Thessaloniki - Tagarades, 57001 Thermi, Greece
P09	Tuning Hole Transport Layer Properties in Printed Perovskite Solar Cells through PEDOT:PSS Modification for Enhanced Performance <u>A. Kostopoulou</u> ¹ , C. Stavraki ¹ , C. Kapnopoulos ¹ , K. Papadopoulos ¹ , S. Kassavetis ¹ , E. Mekeridis ² , S. Logothetidis ^{1,2} , A. Laskarakis ¹ ¹ Nanotechnology Lab LTFN / COPE-Nano, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece ² Organic Electronic Technologies (OET), 20th KM Thessaloniki - Tagarades, 57001 Thermi, Greece
P10	Agrivoltaics in Action: Real-World Success Across the USA, India, and Central Europe D. N. Swamy ¹ , D. V. Karunanithi ² , M. Kumar ³ ¹ Meinders School of Business of Oklahoma City University, Oklahoma, USA ² Tamil Nadu Agricultural University, Tamil Nadu, India ³ University of Madras, Chennai, Tamil Nadu, India
P11	Energy-Level Alignment and Interfacial Quality: Key Parameters for Charge Trapping and OLED Operation <u>D. Kanatsiopoulou</u> ¹ , K. Papadopoulos ¹ , D. Tselekidou ¹ , S. Kassavetis ¹ , S. Logothetidis ^{1,2} , M. Gioti ¹ ¹ Nanotechnology Lab LTFN / COPE-Nano, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece ² Organic Electronic Technologies (OET), 20th KM Thessaloniki - Tagarades, 57001 Thermi, Greece
P12	Optical, Photophysical, and Optoelectronic Characterization of Light-Emitting Polymers for Applications in Flexible OLED-Based Optical Sensing Platforms <u>K. Papadopoulos</u> ¹ , D. Tselekidou ¹ , S. Kassavetis ¹ , S. Logothetidis ^{1,2} , M. Gioti ¹ ¹ Nanotechnology Lab LTFN / COPE-Nano, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece ² Organic Electronic Technologies (OET), 20th KM Thessaloniki - Tagarades, 57001 Thermi, Greece
P13	Nanostructured Gate/dielectric layers for Organic Light Emitting Transistors C. Breazu ¹ , M. Socol ¹ , O. Rasoga ¹ , <u>G. Petre</u> ¹ , A. Stanculescu ¹ , C. Besleaga ¹ , N. Preda ¹ , G. Socol ² ¹ National Institute of Materials Physics, Romania ² National Institute for Lasers, Plasma and Radiation Physics, Romania