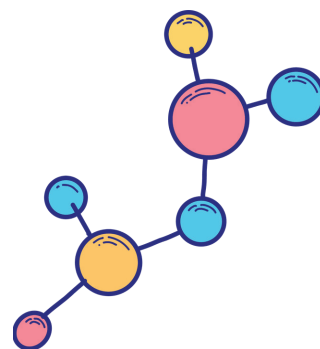


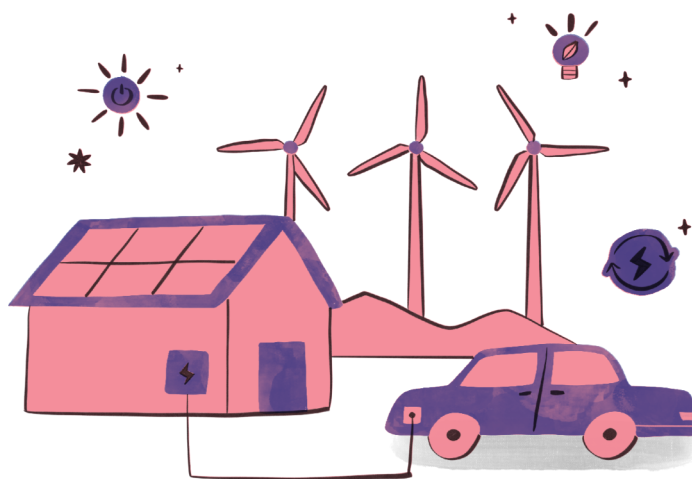
FINAL PROGRAM



Annual International Conference on
Polymer Science and Smart Materials
&

Annual International Conference on
Clean and Green Energy Engineering

September 28-29, 2026 | Holiday Inn Lisbon Hotel, Lisbon,
Portugal



Synergia Summits Private Limited

Flat No-3006, Block No-2, My Home Avatar,
Puppalaguda, Narsingi, Gandipet Mandal, Rangareddy, Hyderabad, Telangana,
India, PIN-500089

E: contact@synergiasummits.com

09:00-09:45 Registrations and Badge Pickup
09:45-10:00 Opening Ceremony and Welcome Remarks

Moderator: **Ville Julien**, Université de Bretagne Occidentale, France

10:00-10:40 **Gérard Jean-François**, INSA Lyon, France
P Title: Smart Polymer Nanomaterials and Surfaces from Self-Assembling Processes
10:40-11:20 **Georgios C. PSARRAS**, University of Patras, Greece
P Title: Ceramic-Polymer Nanocomposites: From Structural Reinforcement to Multi-Functional Performance

11:20-11:40 Networking and Coffee Break

11:40-12:10 **Arman Oshnoei**, Aalborg University, Denmark
K Title: Next-Generation Battery Management System for Sustainable Electrification
12:10-12:50 **Dimitrios Rakopoulos**, Centre for Research & Technology Hellas (CERTH), Greece
P Title: Energy transition and its impact on power systems: The European paradigm, challenges and solutions

12:50-14:00 Group Photograph followed by Lunch

14:00-14:40 **Jonathan W C WONG**, Dongguan University of Technology, China
P Title: Waste Biomass Resource for Circular Economy and Renewable Energy

Moderator: **Natalia Terenti**, National Institute for Isotopic and Molecular Technologies, Romania

14:40-15:10 **Kolos MOLNÁR**, Budapest University of Technology and Economics, Hungary
K Title: Hybridizing 3D Printing with Nanofibers: Building Hierarchical Porous Structures with Tunable Properties
15:10-15:40 **Kiriaki Chrissopoulou**, IESL, Foundation for Research and Technology – Hellas (FORTH), Greece
K Title: Polymer Nanocomposites: Correlating Structure with Properties
15:40-16:10 **Petr Spatenka**, Czech Technical University in Prague, Czech Republic
K Title: Plasma treatment of raw materil for products with enhanced adhesion

16:10-16:30 Networking and Coffee Break

16:30-17:10 **Ir.Suzana Yusup**, Sunway University, Malaysia
P Title: Progress and Potential of Clean and Green Energy in Science, Technology, and Innovation Ecosystem
17:10-17:35 **Renata Cicha-Szot**, Oil and Gas Institute, Kraków, Poland
I Title: From Hazard to Value: Smart Methane Management with H2 Generation and CCUS in Sustainable Mining

17:35-18:00 **Ján Kruželák**, University of Technology in Bratislava, Slovakia
I Title: Smart Rubber Shields: Absorption-Dominated EMI Shielding

END OF DAY-01

DAY-2

Tuesday, Sept 29, 2026
Meeting Room: Porto Santo

Moderator: **Kolos MOLNÁR**, Budapest University of Technology and Economics, Hungary

10:00-10:40 **Mathias Ulbricht**, Universitat Duisburg-Essen, Germany
P Title: Advanced polymer-based membranes with tailored barrier and surface properties

10:40-11:20 **Liangchi Zhang**, Southern University of Science and Technology, China
P Title: AI-Driven Design of Smart Materials with Tailored Mechanical Properties

11:20-11:40 Networking and Coffee Break

Keynote Talks

11:40-12:10 **Ville Julien**, Université de Bretagne Occidentale, France
K Title: Polymer and Processing: Applications to Electromagnetic Absorption

12:10-12:40 **Patricia María FRONTINI**, INTEMA, Argentina
K Title: Optimization of complete cavity filling in injection molding using MVR-GA

Invited Talks

12:40-13:05 **George Pasparakis**, University of Patras, Greece
I Title: Structure-Property Relationships in Stimuli-Responsive Polymers for Controlled Delivery Applications

13:05-14:00 Group Photograph followed by Lunch

Moderator: **Patricia María FRONTINI**, INTEMA, Argentina

14:00-14:25 **Martin Hruby**, Czech Academy of Sciences, Prague, Czech Republic
I Title: Dynamic Polymer Nanonetworks: Assembly and Disassembly Driven by External Stimuli

14:25-14:50 **Marie-Pierre G. Laborie**, Luxembourg Institute of Science and Technology, Luxembourg
I Title: Lignin Multiphase Plastics: Fundamentals and Processing

14:50-15:15 **Andrzej Mikuła**, AGH University of Krakow, Poland
I Title: Development of Pentlandite-Based Electrocatalysts for Acidic Hydrogen Evolution Reaction: Composition-Structure-Activity Relationships

15:15-15:40	Moran Aviv , Afeka Academic College of Engineering and Tel Aviv University, Israel Title: Tailoring the structure and antibacterial properties of self-assembled Fmoc-phenylalanine nanostructures through positional fluorination
15:40-16:05	Vasile Robert Gradinaru , Alexandru Ioan Cuza University of Iasi, Romania Title: Multimodal Hydrogel Systems for Drugs and Enzymes Delivery
16:05-16:30	Alexandrina Nan , National Institute for Isotopic and Molecular Technologies, Romania Title: Controlled Synthesis of CoFe ₂ O ₄ Nanocubes and Their Application in Flexible Polymer Composites
16:30-16:50	Networking and Coffee Break
16:50-17:30	POSTER PRESENTATIONS
P001	Patricia María FRONTINI , CONICET, Argentina Title: Buckling Behavior of Thermoplastic Liner System: Annular space and structural integrity
P002	Lubos Kristak , Technical University in Zvolen, Slovakia Title: Physics-Guided VOC Marker Transport in a Full-Scale Medium-Density Fibreboard Dryer
P003	Natalia Terenti , National Institute for Isotopic and Molecular Technologies, Romania Title: Coordination polymers based on lactone-functionalized poly(benzofuran-co-arylacetic acid) for energy storage applications
P004	Gal Melinda-Eva , National Institute for Isotopic and Molecular Technologies, Romania Title: Lanthanide-Coordinated Carboxylated Polymer Networks for Advanced Functional Materials
P005	Yusheng Zheng , Aalborg University, Denmark Title: Sizing optimization of hybrid battery energy storage systems for maritime applications
P006	Hoda Sorouri , Aalborg University, Denmark Title: A Smart Chemistry-Agnostic Battery Management System for Maritime Applications
P007	Jiri Panek , Institute of Macromolecular Chemistry CAS, Czech Republic Title: Polymer Potentiometric Sensors for Micropollutants and Inflammation Markers
17:30-17:45	CONFERENCE HIGHLIGHTS & CLOSING CEREMONY