



Scientific Program

International Conference on

POLYMER SCIENCE & COMPOSITE MATERIALS

November 24-25, 2025 | Prague, Czech Republic



Hosting Organization: Inovine Meetings LLC, 2C Pecan Hill Drive Clinton
Mississippi, 39056 USA | Phone: +1-408-648-2233

Day 1

November 24, 2025
Prague, Czech Republic

Scientific Program

09:00–09:15: Registrations
09:15–09:30: Opening Ceremony

Keynote Presentation

09:30–10:10

Title: Physicochemical and Fire-Resistant Properties of PalmBased Fire Retardant Composite
Junidah Lamaming
Universiti Malaysia Sarawak, Malaysia

Oral Presentations

10:10–10:40

Title: Fiber–Matrix Interactions in Agricultural Biomass Fiber Composites: Role of Bio-Based Polymer as Matrix Phase
Nurjannah Salim
Universiti Malaysia Pahang Al Sultan Abdullah, Malaysia

Group Photo | Coffee Break 10:40-11:00@ Foyer

11:00–11:30

Title: Multi-density Foam-cell Headrest Design using Fast-Aggressive
Sungwook Cho
Kongju National University, South Korea

11:30–12:00

Title: Enhancing the Performance of Piecewise Integrated Composite Structures through Optimized Machine Learning Data Allocation
Seungmin Ji
Kongju National University, South Korea

12:00–12:30

Title: Deep-Learning-Based Prediction of Mechanical Properties of Woven Carbon Fiber Reinforced Plastic Considering Crimp Geometry and Weave Pattern
Seung ho Kwon
Kongju National University, South Korea

Lunch Break 12:30-13:30

13:30–14:00

Title: Polysaccharides in Agriculture: Crosslinked Sodium Alginate-g-poly(Potassium Acrylate) for Extended Water and Urea Release

Talha Genc

University of Montpellier, France

14:30–15:00

Title: Solid Waste Management in Climate Change Context: A Systemic Review of Developing Countries

Khadija Ouknine

Cadi Ayyad University, Morocco

15:00–15:30

Title: Adaptive Mechanisms of Argania spinosa under Harsh Environmental Conditions: A Mini-Review

Dounia Azwaq

Cadi Ayyad University, Morocco

15:30–16:00

Title: Enhancing Coal Fines through Innovative Sustainable Green Binders for Eco-Friendly Briquettes

Tebogo Mashifana

University of South Africa, South Africa

Break 16:00-16:20 @ Foyer

16:20–16:50

Title: Microstructure and Mechanical Behavior of High-Entropy Alloy Processed by Cyclic Extrusion Compression Method

Marcin Madej

AGH University of Krakow, Poland

Keynote Presentation Slots are Available....

Oral Presentation Slots are Available....

Poster Presentation Slots are Available....

Day 2

November 25, 2025
Prague, Czech Republic

Scientific Program

08:30–08:45: Registrations
08:45–09:00: Opening Ceremony

09:00–9:40	Title: Towards a Sustainable World Marta Balan Mt Battery Unity in Diversity Trust, Australia
09:40–10:00	Title: Aunified formula for the viscosity of polymer solution Ang-Yang Yu School of Chemistry & Chemical Engineering of Guangxi University, China
10:00–10:20	Title: Additive Engineering for Efficient and Stable Perovskite Solar Cells Teo Siow Hwa Universiti Malaysia Sabah, Malaysia
10:20–10:40	Title: Research on Microstructural and Compositional Changes in Degraded Perovskite Solar Cells Yung-kuan Tseng National Yunlin University of Science and Technology, Taiwan
10:40–11:00	Title: Human Resurrection using DNA and Biotech Albi Ndoni Alvin Community College, Aalbania
11:00–11:20	Title: Superior Electrochemical Water Splitting Achieved by Incorporating Molybdenum in Self-standing NiSe₂/CoSe₂ Heterostructures Priyanka Aggarwal Tantia University, India
11:20–11:40	Title: Complex Metal Ions Role to Enhancing Conversion and Storage of Solar Energy using Reductant and Photosensitizer Bijendra Singh Central University of Gujarat, India
11:40–12:00	Title: Comparative study of Photocatalytic active surface characteristics of Gold Copper oxide core shell nanostructures. Muhammad Ramzan The Islamia University of Bahawalpur, Pakistan
12:00–12:20	Title: Synthesis of Smart Phase-Engineered Polyurethane Coatings for Biomedical Applications Helma Vakili University of Tehran, Iran
12:20–13:00	Title: Crystallographic Transformations and Energy Storage and Dissipation in Thermomechanical Processes in Shape Memory Alloys Osman Adiguzel Firat University, Turkey

13:00–13:40	Title: Prospective Investigation of Metal-Oxide Nanofilms for High Performance Devices Paulo Cesar de Morais Catholic University of Brasilia, Brazil
13:40–14:00	Title: Synthesis of biodegradable carboxymethylcellulose polymer hydrogels for water stress mitigation and controlled release of nitrogen and phosphate fertilizers. Livia Valentim Sanches Universidade Estadual Paulista, Brazil
14:00–14:30	Title: Microstructure and Mechanical Behavior of High-Entropy Alloy Processed by Cyclic Extrusion Compression Method Paulo Cesar de Morais Catholic University of Brasilia, Brazil
14:30–14:50	Title: Analyzing Heat Transfer in Solar-Powered Ventilation to Enhance Energy Efficiency in Buildings Karla Maria Aguilar Castro, Carlos Enrique Torres Aguilar Karla Maria Aguilar Castro, Carlos Enrique Torres Aguilar, Edgar Vicente Macias Melo Universidad Juarez Autonoma de Tabasco, Mexico
14:50–15:10	Title: Industrial-scale PVC recycling Deborah Batista Sao Paulo State University, Brazil

Panel Discussion