

Theme:

**“Unlocking the Future Possibilities of
Materials Science Engineering ,
Metallurgy, and Mining”**

Global Conference on

MATERIALS SCIENCE, ENGINEERING METALLURGY, AND MINING

Dates:

July 25, 2026 (Virtual)

Venue:

Via Zoom Platform

7:50- 08:00 Introduction & Open Ceremony

(Greenwich Mean Time)

Plenary Presentation

08:00- 08:30	Prof. Masahiro YOSHIMURA Tokyo Institute of Technology, Japan	Why and how soft, solution processing (=low energy production) for advanced nano-materials is difficult but necessary for sustainable society?
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Keynote Presentation

08:30 - 08:55	Prof. Xiaobin Chen Harbin Institute of Technology, China	Giant tunneling magnetoresistance based on spin-valley-mismatched ferromagnetic metals
08:55 - 09:20	Prof. V.G. Plekhanov Fonoriton Science Lab, Estonia	Isotope - Based Materials Science
09:20 - 09:45	Prof. Toyo Kazu Yamada Chiba University, Japan	Quantum spin engineering using 2D MOFs on solid surfaces
09:45 - 10:10	Prof. Junhui Hu Nanjing University of Aeronautics and Astronautics, China	Ultrasonic enhancement effect on gas-solid reactions and its applications in gas sensors and metal-air batteries
10:10 - 10:35	Mr. Albin Kaelin CEO epeaswitzerland gmbh, switzerland	Cradle to cradle design innovations
10:35 - 11:00	Prof. Mina Popovic University Union-Nikola Tesla, Serbia	Biodegradation of polystyrene by the novel strain hafnia paralvei UUNT_MP29 isolated from the microbiome of cyprinus carpio

11:00 - 11:20 (Eye Relaxation Break & Breakout Rooms - Greenwich Mean Time)

Oral Presentations

11:20 - 11:40	Dr. Abbas Alshehabi Bahrain Polytechnic, Kingdom of Bahrain	Mechanical stress as an electronic perturbation in x-ray emission spectroscopy: conceptual implications for line-shape interpretation and non-contact stress assessment
11:40 - 12:00	Dr. Peter van den Engel Delft University of Technology, The Netherlands	Air and water to PCM batteries in buildings
12:00 - 12:20	Dr. Luzhao Sun Beijing Graphene Institute, China	Layer and stacking controlled epitaxial growth of graphene films

Keynote Presentation

12:20 - 12:45	Dr. Anna Leo Università di Salerno, Fisciano, Italy	Quantum-mechanical modeling of radiative and non-radiative decay in optoelectronic materials
12:45- 13:10	Prof. Aleksandra Drozd-Rzoska IHPP PAS, Poland	Characterization of natural honeys from Poland via advanced implementations of dielectric methods
13:10 - 13:35	Prof. Giuseppe Forte University of Catania, Italy	Computational design of functional photoactive aterials: from molecular systems to nanostructures
13:35 - 14:00	Prof. Eugene S. Mananga Los Alamos National Laboratory, City University of New York, USA	Using density functional theory and molecular dynamics to investigate 2D materials
14:00- 14:25	Prof. Valeriy A. Buryachenko Micromechanics & Composites, Cincinnati,	Unified micromechanics theory of composites

14:25- 14:50	Prof. Ignacio Alejandro Figueroa National Autonomous University of Mexico, Mexico	Self-foaming metals: from quasicrystals to highly porous alloys
14:50 - 15:15	Ms. Michele Nash President, ElectroFab Sales, USA	The future of global manufacturing
15:15 - 15:40	Prof. W.H. Katie Zhong Washington State University, USA	Abundant natural proteins for functional material applications in nanocomposites, energy storage and environment
15:40 - 16:05	Dr. Sara Sheikhlary University of Arizona, United States	Ai-guided nanomaterials for extreme space environments: from quantum dots to intelligent composites

16:05 - 16:25 (Eye Relaxation Break & Breakout Rooms - Greenwich Mean Time)

Keynote Presentations Cont.....

16:25 - 16:50	Prof. Raymond Compton Jagessar University of Guyana, Guyana	Nanocarriers advancing nanotechnology
16:50- 17:15	Prof. Hitesh Bindra Purdue University, United States	Ceramic heat batteries for steam power: achieving >90% round-trip efficiency with sic, alumina, and recycled media
17:15 - 17:40	Prof. Raymond Compton Jagessar University of Guyana, Guyana	Nanotechnology and nanomaterials
17: 40 - 18:05	Dr. Severine A.E. Boyer CNRS / MINES PARIS PSL, France	Design concepts for organic-based systems with porous polymers
18:05 - 18: 30	Prof. Edvin Hevorkian Casimir Pulaski Radom University, Radom, Poland	Advanced nanocomposite materials synthesized by electroconsolidation: structure, properties, and applications

Oral Presentations

18: 30 - 18:50	Prof. Waltraud Kriven University of Illinois at Urbana- Champaign USA	Geopolymers and their potential applications
18:50 - 19:10	Prof. Stephen W. Tsai Stanford University California, USA	Simple calculations for stiffness, strength and best laminates
19:10 - 19:30	Dr. Vahram V. Ghazaryan Institute of Applied Problems of Physics, NAS RA, Armenia	New organic etidronates: a crystallographic and spectroscopic study

Poster Presentation

19:30 - 19:45	Dr. Irina Kircheva Marinova Institute of Mineralogy and Crystallo- graphy, Bulgaria	Valorization of Mining and Metallurgical Waste from Metal Extraction: Global Trends and Initiatives
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End of Day 3 Coference



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