CMSE 2026

The 15th Global Conference on Materials Science and Engineering

November 20-23, 2026

City University of Macau, Macao, China

Conference Program

Organizers

Bosen Academic Research Institute

MEG 澳門博覽集團有限公司 MACAU EXPO GROUP LIMITED

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Conference Committee

Technical Committee Chair

Prof. Kwun Nam Hui, Institute of Applied Physics and Materials Engineering, University of Macau, Macao SAR, China

International Committee Members

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Prof. Leonardo Pagnotta, University of Calabria, Italy
Prof. Henryk Paul, Institute of Metallurgy and Materials Science, Polish Academy of Sciences, Poland
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Prof. Mohd Nasir TAMIN, Universiti Teknologi Malaysia, Malaysia
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Prof. Diego Vergara, Catholic University of Ávila, Spain
Prof. Enrico Zacchei, Polytechnic School of University of Salamanca (USAL), Spain
Prof. Ali Zaidi, Laghouat University, Algeria
Prof. Tingkai Zhao, Northwestern Polytechnical University, China
Assoc. Prof. Muhammad Zubair, University of Sharjah, United Arab Emirates
Assoc. Prof. Nurul Zuhairah Mahmud Zuhudi, Universiti Kuala Lumpur, Malaysia

*List in alphabetical order by Last Name from A to Z.

Conference Program Overview

Friday, November 20, 2026

Time	Activities	Location
14:00-18:00	Registration	City University of Macau

Note for registration:

* Please let us know your name or abstract / paper number for registration.
* Please pick up all the conference materials at the registration desk (Name Card, Conference Program, Dining Tickets, Tour ticket etc.).

Saturday, November 21, 2026

Time	Activities	Location
09:00-09:05	Opening Speech	City University of Macau
09:05-09:40	Keynote Speech 1	
09:40-10:15	Keynote Speech 2	
10:15-10:25	Group Photo	
10:25-11:05	Poster Session Coffee Break	
11:05-11:40	Keynote Speech 3	
11:40-12:15	Keynote Speech 4	
12:15-14:00	Lunch Break	
14:00-14:35	Keynote Speech 5	
14:35-17:45	Parallel Oral Session 1	
14:35-17:10	Parallel Oral Session 2	
18:00-20:30	Welcome Dinner	Macau Tower

Sunday, November 22, 2026

Time	Activities	Location
09:00-12:20	Parallel Oral Session 3	City University of Macau
09:00-12:25	Parallel Oral Session 4	
12:25-14:00	Lunch Break	
14:00-18:05	Parallel Oral Session 5	
14:00-16:30	Parallel Oral Session 6	

Monday, November 23, 2026

Time	Activities	Location
09:00-16:00	Field Trip	Macao City

Keynote Session

Saturday, November 21, 2026

Opening Speech & Keynote Session

Host: Prof. Kwun Nam Hui, University of Macau, Macao SAR

09:00-09:05	**Opening & Welcome Speech** Prof. Kwun Nam Hui, Technical Committee Chair, University of Macau, Macao SAR
09:05-09:40	**Keynote Speech 1: A Computational Tool to Identify the Impact of New Materials and Joining Processes in the Dynamics of a Road Vehicle** Prof. Jorge Ambrosio, University of Lisbon, Portugal
09:40-10:15	**Keynote Speech 2: Growth of Intermetallic Phases in Explosively Welded Al–Ti and Al–Mg Multilayer Composites** Prof. Henryk Paul, Institute of Metallurgy and Materials Science, Polish Academy of Sciences, Krakow, Poland
10:15-10:25	**Group Photo**
10:25-11:05	**Poster Session & Coffee Break**
11:05-11:40	**Keynote Speech 3: Luminescent Properties of Rare Earth Doped Ultrawide-bandgap Semiconductors Characterized by Synchrotron Radiation** Prof. Qixin Guo, Saga University, Japan
11:40-12:15	**Keynote Speech 4: Self-healing Nanocontainers for Corrosion Protection. Use of Layered Double Hydroxide (LDH) to Extend the Service Life of Reinforced Concrete** Prof. Mário G. S. Ferreira, University of Aveiro, Portugal
	Lunch Break 12:15-14:00

Afternoon Keynote Session

14:00-14:35	**Keynote Speech 5: Structural Lightweight Concrete for Marine and Special Structures: Research and Practice** Prof. Payam Shafigh, Wenzhou University of Technology, China

Technical Sessions

Saturday, November 21, 2026

Oral Session 1: Polymeric and Composite Materials

Session Chair: Prof. Jiaxi Xu

14:35-14:55	**Invited Talk CMSE5473: High-performance Polymer Composites for Tribological Applications** Prof. Alois K. Schlarb, RPTU Kaiserslautern-Landau, Germany
14:55-15:15	**Invited Talk CMSE5563: Preparation of Poly(benzylphosphinates) as Flame Retardants via in-situ Generated Carbene Insertion** Prof. Jiaxi Xu, Beijing University of Chemical Technology, China
15:15-15:30	**CMSE5572: Coupled Effects of Cutting-edge Radius and Cryogenic Cooling on Material Removal During Orthogonal Cutting of CFRP** Dr. Tao Wang, Northwestern Polytechnical University, China
15:30-15:45	**CMSE5573: Investigation on Hole Entrance and Exit Damage in Drilling of CF/PEEK-Ti Stacks** Dr. Zhijian Meng, Northwestern Polytechnical University, China
15:45-16:00	**CMSE5557: An Experimental and Thermodynamic Investigation of Substrate-Dependent Delamination Toward Free-Standing PANI:CSA Films** Dr. Fuat Erden, Sivas University of Science and Technology, Türkiye
	***Coffee Break* 16:00-16:20**
16:20-16:40	**Invited Talk CMSE5489: Biodegradable and Thermoresponsive Hollow Porous Micro/Nanoparticles for Sustained Drug Release** Prof. Ildoo Chung, Pusan National University, Republic of Korea
16:40-17:00	**Invited Talk CMSE5466: Constructing 3D Boron Nitride Thermal Conductive Network in Epoxy via Magnetic Field-assisted Tape Casting for Thermal Management** Dr. Zhuo Zhang, Northwestern Polytechnical University, China
17:00-17:15	**CMSE5413: A Multifunctional Bilayer Hydrogel for Effective Pancreatic Fistula Prevention and Post-surgical Adhesion Control** Mr. Jun Li, Hangzhou Medical College, China
17:15-17:30	**CMSE5574: Investigation on the Damage and Accuracy of the Hole in Drilling Co-cured CFRP/AFRP Laminates** Dr. Shiming Liang, Northwestern Polytechnical University, China
17:30-17:45	**CMSE5493: Development of a Bio-Inspired Flexible Piezoelectric Sensor Using Collagen and Collagen Composites** Dr. Phakakorn Panpho, Pibulsongkram Rajabhat University, Thailand
Video Presentation	**CMSE5527: Experimental Optimization of Post-Cure Dimensional Stability and Compression Set in Extruded HCR Silicone Profiles** Mr. Jayadip Tejani, National Rubber Corporation, USA

Oral Session 2: Materials in Power Laser Applications

Session Chairs: Prof. Aurelian Marcu
Dr. Andrei Popescu

14:35-14:55	**Invited Talk CMSE5417: Non-linear Optic Materials in High Power Laser-matter Interaction Diagnosis** Prof. Aurelian Marcu, National Institute for Laser, Plasma and Radiation Physics, Romania
14:55-15:15	**Invited Talk CMSE5419: Defects Analysis by Optical Methods in Laser Irradiated Metal Alloys** Dr. Andrei Popescu, National Institute for Laser, Plasma and Radiation Physics, Romania
15:15-15:30	**CMSE5404: Study on Structural Integrity of Target Window of Spallation Target: Thickness Reduction Evaluation by Measuring Laser-thermal- loading Responses** Mr. Lei Wu, Advanced Energy Science and Technology Guangdong Laboratory, China
15:30-15:45	**CMSE5418: Laser Welding of Metallic Interconnections for Rechargeable Electric Battery Applications** Mr. Sabin Mihai, National Institute for Laser, Plasma and Radiation Physics, Romania
15:45-16:00	**CMSE5396: Effect of Selective Laser Melting Process Parameters on the Microstructure and Properties of 18Ni300 Maraging Steel** Prof. Fenghong Cao, Chengdu Technological University, China
	***Coffee Break* 16:00-16:20**
16:20-16:40	**Invited Talk CMSE5540: Exploring Fingerprints of Ultrafast Structural Dynamics in Molecular Solutions with an X-ray Laser** Dr. Ruslan Kurta, European XFEL, Germany
16:40-16:55	**CMSE5524: Preliminary Studies on Nanowire Morphology Influences in Laser-matter Interaction Processes** Ms. Maria Balan, National Institute for Laser, Plasma and Radiation Physics, Romania
16:55-17:10	**CMSE5562: Non-contact Ultrasound to Assist Laser Additive Manufacturing** Dr. Jiasen Han, Northwestern Polytechnical University, China
18:00-18:30	**Depart for Macau Tower** Gather at: Rotunda Dr. Carlos A. C. P. D'Assumpção Bus Stop T307 (alongside the uphill road to CityU main gate) 宋玉生博士圓形地巴士站T307（城大校門上坡旁）
18:30-20:30	**Buffet Dinner at Macau Tower**

Sunday, November 22, 2026

Oral Session 3: Electronic, Magnetic and Photonic Materials

09:00-09:20	**Invited Talk CMSE5521: Electrical Characterization of Compositional Al_2O_3 Supplemented HfO_2 Thin Films Deposited by Atomic Layer Deposition** Prof. Jangyong KIM, Xi'an Jiaotong-Liverpool University, China
09:20-09:40	**Invited Talk CMSE5504: When Flexible Electronics Becomes a Foundry Technology: A Microelectronic Designer's Perspective** Dr. Oscar Alonso, Universitat de Barcelona, Spain
09:40-10:00	**Invited Talk CMSE5492: Anomalous Behaviour of the Spin Transition in the Fe^{II}-based Spin-Crossover Compounds under High Pressure** Dr. Nikita Liedienov, Jilin University, China
10:00-10:15	**CMSE5534: Tailorable Microwave Absorption Performance of Carbon-based Nanocomposites by Microstructure Construction** Dr. Kaifeng Wang, Shenzhen University, China
10:15-10:30	**CMSE5564: Electronic Structure Calculation of Atom/Molecule within a Cartesian-grid DFT** Prof. Amlan Kusum Roy, Indian Institute of Science Education and Research Kolkata, India
	Coffee Break **10:30-10:50**
10:50-11:10	**Invited Talk CMSE5484: Pressure-induced Low-spin State Destabilization in an Iron(II) Spin Crossover Complex with Pyrazol-Pyridine-Triazolate Coordination Core** Prof. Georgiy Levchenko, Jilin University, China
11:10-11:30	**Invited Talk CMSE5515: Nanoimprint of Au-based Thin Film Metallic Glasses for Surface-enhanced Raman Scattering Applications** Prof. Chun-Hway Hsueh, National Taiwan University
11:30-11:50	**Invited Talk CMSE5439: Advanced Polymer Network Assembly Methods for Responsive Liquid Crystal Materials and Devices** Prof. Laurens Theobald de Haan, South China Normal University, China
11:50-12:05	**CMSE5549: Surface Chemistry of Emitting Colloidal Quantum Dots and Their Incorporation into Inorganic Materials** Dr. Norio Murase, Quantum Materials Technology Co., Ltd. (QMT), Japan
12:05-12:20	**CMSE5508: Scale-tailored Localization in Non-Hermitian Systems** Dr. Cui-Xian Guo, Institute of Physics, Chinese Academy of Sciences, China
Video Presentation	**CMSE5510: MXene-based Schottky/S-scheme Dual Heterojunction Composites with Atomic-Scale Ce–O–Ti Bridging Structures: Enhanced Charge Separation and Photocatalytic Oxidation of PPCPs** Ms. Yawen Chen, University of Science and Technology of China, China

Oral Session 4: Solid Mechanics, Structural Dynamics and Advanced Manufacturing

Session Chairs: Prof. INABA Kazuaki
Prof. Radan Ivanov

09:00-09:20	**Invited Talk CMSE5441: Numerical Investigation of Bubble Collapse-induced Impact and Damage Mechanisms on Thin Solid Plates Near Fluid Interfaces** Prof. INABA Kazuaki, Institute of Science Tokyo, Japan
09:20-09:40	**Invited Talk CMSE5470: Modeling and Analysis of Lubricated Revolute Joints in Dynamics of Mechanical Systems** Prof. Paulo Flores, University of Minho, Portugal
09:40-09:55	**CMSE5548: A Temperature-triggered Constitutive Switching Model for TGO Growth Stress and Its Effects on the Stress Field and Crack Initiation around Film-cooling Holes in TBC Systems** Mr. Xiaojie Han, Tokyo University of Science, Japan
09:55-10:10	**CMSE5475: Stiffness-damping Balance Design of a PA-modified Epoxy Filling Material for Chatter Suppression in Thin-walled Blade Milling** Mr. Yizhuo Wang, Northwestern Polytechnical University, China
10:10-10:25	**CMSE5517: The Effect of Environmental Conditions on the Guided Ultrasonic Wave Propagation in Fibre Metal Laminates for Structural Health Monitoring** Dr. Wolfgang E. Weber, Helmut-Schmidt-University, Germany
	***Coffee Break* 10:25-10:45**
10:45-11:05	**Invited Talk CMSE5543: Effect of Use of Recycled Aggregates on Shear Strength of 50 MPa Concrete Based on Pushoff Tests** Prof. Khaldoun Rahal, Kuwait University, Kuwait
11:05-11:25	**Invited Talk CMSE5403: Influence of the Multi-directivity of Earthquake Ground Motion on the Rocking Response of a Reinforced Concrete Building** Prof. Radan Ivanov, National Institute of Geophysics, Geodesy and Geography - Bulgarian Academy of Sciences, Bulgaria
11:25-11:40	**CMSE5478: GPU-accelerated Microscale Stress Reconstruction in Linear-elastic Composite Structures Using Precomputed RVE Responses** Dr. Waldemar Mucha, Silesian University of Technology, Poland
11:40-11:55	**CMSE5505: Temperature-field Assisted Vat Photopolymerization (TF-VPP) Fabrication of High-strength, Low-shrinkage Silica-Based Ceramic Cores: Effects of Spherical Powders and Vacuum Debinding** Mr. Yongyong Liu, Beihang University, China
11:55-12:10	**CMSE5536: Dynamic Fracture Analysis of Glass Plates Using an XFEM-VCCT Coupled Approach** Ms. Wang Yao, Harbin Institute of Technology Weihai, China
12:10-12:25	**CMSE5454: Dynamic Analysis of Electrostatically Coupled Initially Curved Microbeams Employing PZT Sandwich Layers** Dr. Ayman Alneamy, Jazan University, Saudi Arabia
	***Lunch Break* 12:25-14:00**

Oral Session 5: Functional Materials for Energy and Environmental and Nuclear Systems

Session Chair: Prof. Mariusz Barczak

14:00-14:20	**Invited Talk CMSE5465: Nanoporous Carbon Textiles: Precise Design of Porosity and Surface Chemistry for Wide Range of Applications** Prof. Mariusz Barczak, Maria Curie-Sklodowska University, Poland
14:20-14:40	**Invited Talk CMSE5468: On the Use of Cork Composites for Hydrogen-based Applications** Prof. Ricardo Alves de Sousa, University of Aveiro, Portugal
14:40-15:00	**Invited Talk CMSE5437: From Electronic Structure to Spin-state Control: Redefining Catalysis in Lithium–sulfur Batteries** Prof. Kwun Nam Hui, University of Macau, China
15:00-15:15	**CMSE5545: Glutathione-functionalized Vertically Aligned Carbon Nanotube Arrays for Electrochemical Heavy-metal-ion Sensing** Dr. Eser Akinoglu, South China Normal University, China
15:15-15:30	**CMSE5467: Carbon-sulfur Nanocomposites for Efficient Platinum Removal and Recovery from Hospital Effluents** Ms. Marlena Bytniewska, Maria Curie-Sklodowska University, Poland
15:30-15:50	**Invited Talk CMSE5554: MXene-based Materials for Sustainable Water Treatment and Desalination: Recent Advances, Challenges, and Future Perspectives** Dr. Ihsanullah Obaidullah, University of Sharjah, United Arab Emirates
	***Coffee Break* 15:50-16:10**
16:10-16:30	**Invited Talk CMSE5555: Neutron–material Interaction and Activation Behavior of Gold Foils under Different Reactor Power Levels** Dr. Muhammad Zubair, University of Sharjah, United Arab Emirates
16:30-16:50	**Invited Talk CMSE5443: Preparation of Carbon Material with Hierarchical Structure and Its Application in Saccharification of Lignocellulosic Biomass** Prof. Eika W Qian, Tokyo University of Agriculture and Technology, Japan
16:50-17:05	**CMSE5401: Application and Performance Changes of Nuclear Detectors in the High-Power Liquid Lead-Bismuth Spallation Targets of ADS** Dr. Qian Yu, Institute of Modern Physics, Chinese Academy of Sciences, China
17:05-17:20	**CMSE5434: Effect of Mass Fraction on Physicochemical Properties of Coconut Oil-loaded Cobalt-glutamate Bio-MOF** Dr. Fayza Yulia, Universitas Pertamina, Indonesia
17:20-17:35	**CMSE5532: Fabrication and Performance Analysis of TiO_2-PVDF Composite Membrane to Separate Oil and Water** Dr. Nonni Soraya Sambudi, Universitas Pertamina, Indonesia
17:35-17:50	**CMSE5593: Preparation and Hydrogen Elimination Performance of Hydrogen Storage Alloy Supported Noble Metal Catalysts** Dr. Chunrong Liu, Lanzhou Institute of Technology, China
17:50-18:05	**CMSE5494: Processing-Morphology-Performance Relationships of Electrospun PAN/MWCNT Nanofibrous Membranes for High-Efficiency $PM_{2.5}$ Filtration** Dr. Rattiphorn Sumang, Pibulsongkram Rajabhat University, Thailand

Oral Session 6: Advanced Structural Alloys and Metallic Materials

Session Chair: Prof. Xiping Guo

14:00-14:20	**Invited Talk CMSE5511: Nb-Si Based Ultrahigh Temperature Alloys and Their Integrally Directional Solidification Techniques** Prof. Xiping Guo, Northwestern Polytechnical University, China
14:20-14:40	**Invited Talk CMSE5535: High Performance Bulk Nanotwinned Mg Alloys** Prof. Qiuming Peng, Yanshan University, China
14:40-14:55	**CMSE5453: Hot Temperature Deformation of High-strength Mg-Zn-based Alloys Prepared by Rapidly Solidified Ribbon Consolidation Technique** Mr. Zsolt Beke, Charles University, Czech Republic
14:55-15:10	**CMSE5474: Feasibility of Friction Stir Processing for Mitigating Weld Toe Fatigue Cracks in Steel Fillet Joints** Mr. Yongshi Tang, The University of Osaka, Japan
15:10-15:25	**CMSE5412: Achieving a Balance Between Strength and Ductility of TiN Ceramic Particles Reinforced Ti_2AlNb Matrix Composites** Dr. Kewei Zhang, Northwestern Polytechnical University, China
15:25-15:40	**CMSE5576: Electrochemical Studies of Ti-Nb Alloys in Simulated Bodily Fluids** Mr. Liberty Dzadza, University of Johannesburg, South Africa
	Coffee Break **15:40-16:00**
16:00-16:15	**CMSE5461: Optimization of Machining Parameters in Induction-Assisted Milling of γ-TiAl Alloys** Dr. Tao Fan, Northwestern Polytechnical University, China
16:15-16:30	**CMSE5579: Leaching Kinetics for Copper Extraction from Oxide Ore in Sulphuric Acid** Dr. Momboyo Clotilde Apua, University of Johannesburg, South Africa

Poster Session

Saturday, November 21, 2026 | Time: 10:25-11:05

List of Poster Presentations

CMSE5429 **An Ultraviolet-Writable and Infrared-Erasable Anti-Counterfeiting Strategy Based on the Combination of Photochromic Zn_2GeO_4: Na^+ Phosphor and Photothermal Converter $NaYb_{0.5}Sm_{0.5}(MoO_4)_2$ Agent**
Mr. Xin Chen, Dalian Maritime University, China

CMSE5430 **The Intergrowth of YTa_7O_{19} in L-Ta_2O_5 with Er^{3+}/Yb^{3+} Enhancing Pure Green Upconversion Luminescence Intensity by Molten Salt Synthesis**
Ms. Yuhan Fan, Dalian Maritime University, China

CMSE5477 **Electrical and Magnetic Properties of BNBKL-NZLAF Lead-Free Multiferroic Composites Synthesized via the Solid-State Combustion Method**
Prof. Theerachai Bongkarn, Naresuan University, Thailand

CMSE5485 **Computational Study of Oxygen Distribution in Heated Soft Tissue**
Dr. Maria Zadoń, Silesian University of Technology, Poland

CMSE5512 **Functionalized Antimicrobial Films Based on Antibiotic Imbedded in Bioactive Glass Matrix for Implants Coating**
Dr. Laura Floroian, Transilvania University of Brasov, Romania

CMSE5513 **Nanofat-seeded Artificial Dermis as a Bioactive Scaffold for Improved Scar Outcomes**
Prof. Seung-Kyu Han, Korea University College of Medicine, Republic of Korea

CMSE5516 **Study on Predicting the Mechanical Behavior of Polycrystalline Graphene Using Artificial Intelligence**
Dr. Jihoon Han, Jeonbuk National University, Republic of Korea

CMSE5526 **Rare-earth-specific Lattice Perturbation Modulates Field-dependent Vortex Pinning in TFA-MOD REBCO Thin Films**
Dr. Zhenping Su, Beihang University, China

CMSE5530 **Screen-printed Electrode Characterization of Freshwater-derived Microalgae for Photosynthetic Bioelectricity Generation**
Prof. Eunyu Kim, Duke Kunshan University, China

CMSE5551 **An Integrated Sampling Architecture for Continuous CO_2 Emission Assessment under Variable Industrial Exhaust Conditions**
Dr. Jin-Young Kim, Korea Institute of Industrial Technology, Republic of Korea

CMSE5552 **Morphology-Engineered GaN/SnO_2 Nanowire Heterostructures: Nanoparticle Decoration versus Shell Coating for Highly Selective H2S Sensing**
Dr. Jae-Young Park, Korea Institute of Industrial Technology, Republic of Korea

CMSE5581 **Rethinking Specification Criteria for Green Concrete: Long-Term Assessment of Alkalinity**
Dr. Poh-Yee LOH, Universiti Malaya, Malaysia

CMSE5582 **Microstructural Evolution and Interface Characteristics of Ta/Cu/Steel Clads Produced by Explosive Welding**
Dr. Sandra Puchlerska, AGH University of Krakow, Poland

CMSE5584	**Production of High-Strength Lightweight Aggregate Concrete Incorporating Agricultural Waste** Prof. Payam Shafigh, Wenzhou University of Technology, China
CMSE5592	**Understanding the Origins of Polarization in Li–CO_2 Batteries** Dr. Namsheer Kuniyil, Gachon University, Republic of Korea
CMSE5598	**Effect of Severe Plastic Deformation on the Microstructure and Mechanical Properties of Grade 2 Titanium** Dr. Dastan Buitkenov & Dr. Daryn Baizhan, Sarsen Amanzholov East Kazakhstan University, Kazakhstan
CMSE5599	**Comparative Analysis of the Structural and Phase State and Mechanical and Tribological Properties of Low-Carbon Steel after Electrolytic Plasma and Laser Surface Hardening** Dr. Arkhat Urukkaliev, Sarsen Amanzholov East Kazakhstan University, Kazakhstan

Featured Speakers

Keynote Speakers

KEYNOTE SPEAKER: Prof. Jorge Ambrosio
IDMEC, Instituto Superior Técnico
University of Lisbon, Portugal



Keynote Speech 1

November 21, 2026
Time: 09:05-09:40
Speech Title: A Computational Tool to Identify the Impact of New Materials and Joining Processes in the Dynamics of a Road Vehicle

Abstract. The Body-in-White (BiW) is the backbone for the structural integrity of road vehicles, connecting the wheels via the suspension, to carry engine and passengers. The use of new materials and structural joints in the BiW requires to understand how its construction affects the vehicle dynamic behaviour. The finite element (FE) method allows to develop models to study the static structural deformation, vibration characteristics of components, and crash scenarios. However, these models tend to oversimplify the tire-road interaction and the suspension elements, being often used to study the BiW alone, but not for vehicle handling and ride. Flexible multibody (FMB) simulations allow considering the tire-road contact, the suspension systems, and to include the structural flexibility of components, being suitable to study how BiW construction affects the vehicle dynamics. Although the effect of the structural flexibility of the BiW in vehicle dynamics has been studied, most of the works consider simple tubular chassis structures, or, when more complex BiW constructions, the FMB models resort to some kind of simplification of the structure. Additionally, there is no consensus about the relevance of using the BiW flexibility in multibody simulations of road vehicles or on the effect of the BiW stiffness in their ride and handling behaviour. This work extends the understanding on the topic by: incorporating a detailed BiW model in the FMB model of a luxury sports car; discussing the FMB formulation used in the in-house code MUBODyn, and; exploring the impact of BiW design in vehicle dynamics including the use of novel materials and the required joining processes.

Keywords: Automotive structures, New Material, Joining Process, Vehicle Dynamics

Acknowledgements: The authors acknowledge Fundação para a Ciência e a Tecnologia (FCT) for its financial support via LAETA (project https://doi.org/10.54499/UID/50022/2025)

Biography: Prof. Jorge A.C. Ambrósio, having received his Ph.D. degree from the University of Arizona in 1991, he is currently Full Professor and head of the Structural and Computational Mechanics group at the Mechanical Engineering Department of Instituto Superior Técnico at the University of Lisbon, Portugal. He is the author of more than 300 publications, including several books and a large number of papers in international journals in the areas of Multibody Dynamics, Flexible Multibody Dynamics, Structural Mechanics, Vehicle Dynamics, Crashworthiness and Biomechanics. His current SCOPUS h-index is 53 with more than 8000 citations. He has been responsible for several national and international projects in railway dynamics, biomechanics and passive safety. Currently he is the Editor-in-Chief of Multibody System Dynamics and member of the editorial boards of several international journals.



KEYNOTE SPEAKER: Prof. Henryk Paul
Institute of Metallurgy and Materials Science, Polish Academy of Sciences, Krakow, Poland

Keynote Speech 2

November 21, 2026
Time: 09:40-10:15
Speech Title: Growth of Intermetallic Phases in Explosively Welded Al–Ti and Al–Mg Multilayer Composites

Abstract. Interfacial layers formed during explosive welding are subjected to extremely rapid heating and cooling, which lead to localized melting and mixing within the reaction zones. However, the metallurgical and crystallographic characteristics of these regions, as well as their role in subsequent intermetallic phases growth during post-processing growth, remain insufficiently understood. In this work, the mechanisms governing microstructural evolution and intermetallic phase growth were investigated in two multilayer systems produced by single-shot explosive welding: a fifteen-layer Ti–Al composite consisting of alternating 1 mm sheets of Ti (Gr.1) and AA1050 (Al), and an eleven-layer Mg–Al composite composed of AZ31 (Mg) and AA1050 (Al) sheets. Post-weld annealing was carried out at 903 K for the Ti–Al system and 673 K for the Mg–Al system for times ranging from less than 1 h to more than 10^3 h. Interfacial microstructures were characterized by scanning and transmission electron microscopy, complemented by synchrotron X-ray diffraction, while local mechanical properties were evaluated by microhardness and shear-strength measurements.

Explosive welding produced solidified melt regions along all interfaces in both systems. These regions consisted predominantly of non-equilibrium phases with ultrafine-grained or amorphous structures. Short annealing treatments promoted rapid formation of intermetallic layers through the transformation of these metastable products. In the Ti–Al system, a continuous Al_3Ti layer developed at all interfaces, and prolonged annealing led to the formation of a Ti–Al_3Ti–Al multilayer architecture with residual Ti and Al layers. In the Mg–Al system, short-duration annealing (<1 h) at 673 K promoted significant growth of the γ-$Mg_{17}Al_{12}$ and β-$Mg_{28}Al_{45}$ phases near all interfaces and induced transformation of the pre-existing non-equilibrium phases within the reaction regions into the β phase. Prolonged annealing (≥500 h) resulted in the formation of intermediate ε-$Mg_{23}Al_{30}$ layers between the β and γ layers, giving rise to an Al–γ/ε/β–Mg multilayer intermetallic structure. In both composites, the intermetallic layers exhibited pronounced morphological and crystallographic heterogeneity. In the Ti–Al system, this heterogeneity was associated with the formation of Al_3Ti-based superstructures alongside the conventional $D0_{22}$-Al_3Ti phase, as well as with the development of distinct fibre textures in the interfacial regions. In the Al–Mg system, the β and γ phase layers consisted of highly elongated grains, whereas the ε phase was composed of equiaxed grains. However, none of these phases exhibited a preferred crystallographic orientation.

Biography: Professor Henryk Paul received his Doctor of Engineering degree from the Institute of Metallurgy and Materials Science (IMMS) at the Polish Academy of Sciences in Kraków, Poland, in 1989. After serving as an assistant professor, he was promoted to associate professor in 2003 and to full professor in 2010, all at IMMS PAS. He has completed numerous fellowships and internships at French institutions, including an extended stays at the École des Mines de Saint-Étienne and several study visits to LLB Saclay and Université Paris-Sud. He has authored over 290 original papers, 22 book chapters, and 22 review papers on various aspects of phase transformations. His research interests include explosive welding technology, the formation of plastic flow instabilities during the semi-static and high strain rate deformation of metallic materials, recovery and recrystallization phenomena associated with the phase transformations. He has been a plenary, keynote, or invited speaker at 50 international conferences. He has supervised several PhD students and post-doctoral researchers and has been actively involved in teaching graduate and doctoral courses in physical metallurgy and advanced engineering materials. His publications have been cited over 2,600 times, and he has an h-index of 31.

KEYNOTE SPEAKER: Prof. Qixin Guo
Department of Electrical and Electronic Engineering
Synchrotron Light Application Center, Saga University, Japan



Keynote Speech 3

November 21, 2026
Time: 11:05-11:40
Speech Title: Luminescent Properties of Rare Earth Doped Ultrawide-bandgap Semiconductors Characterized by Synchrotron Radiation

Abstract. Ultrawide-bandgap (UWBG) semiconductors, including AlN, BN, diamond, and Ga_2O_3, have attracted extensive research interest owing to their unique physical properties and broad potential applications in electronic and optoelectronic devices. Among these applications, microscale light-emitting diodes (μLEDs) have emerged as promising candidates for next-generation augmented reality and virtual reality displays. High-performance μLED displays require high pixel density, high efficiency, high brightness, excellent emission stability, and full-color capability. However, realizing full-color μLED displays remains challenging because conventional fabrication relies on the mass transfer and precise alignment of red, green, and blue μLED chips grown on different epitaxial wafers.

Rare-earth (RE)-doped semiconductors exhibit intense, spectrally narrow emissions arising from intra-4f electronic transitions of RE ions, making them attractive for color display and solid-state lighting applications. Considerable efforts have been devoted to developing visible-light emitters based on RE-doped GaN. It has been suggested that employing ultrawide-bandgap host materials can further enhance the luminescence efficiency of RE ions. We have demonstrated distinct red, green, and blue emissions from Eu-, Er-, and Tm-doped Ga_2O_3 thin films, respectively. Furthermore, the normalized emission intensities of RE-doped Ga_2O_3 exhibit significantly smaller temperature dependence than those of RE-doped GaN, indicating superior thermal stability. Optical luminescence studies provide valuable information on the electronic structure, host lattice, and defect states of semiconductors, thereby facilitating the optimization of crystal growth and material quality.

Synchrotron radiation is an ideal excitation source for investigating the optical properties of UWBG semiconductors because of its exceptionally high brightness and continuously tunable photon energy. To support such studies, we have established the Saga University Beamline (BL13) at the Saga Light Source (SAGA-LS), Japan, and developed a dedicated luminescence spectroscopy system. In this presentation, we will introduce the recent progress in our synchrotron radiation–based luminescence measurement system and present representative experimental results on rare-earth-doped ultrawide-bandgap semiconductors.

Biography: Prof. Dr. Guo received B.E., M.E., and Dr. Eng. degrees in Electronic Engineering from Toyohashi University of Technology, Japan, in 1990, 1992, and 1996, respectively. He is currently a Professor in the Department of Electrical and Electronic Engineering at Saga University, Japan. He also served as Director of the Saga University Synchrotron Light Application Center from April 2012 to March 2022. His research focuses on the epitaxial growth and characterization of semiconductor materials, particularly ultrawide-bandgap semiconductors for electronic and optoelectronic applications. He has authored and co-authored more than 400 scientific papers published in leading journals, including Nature Communications, Advanced Materials, Physical Review B, and Applied Physics Letters. His publications have received more than 12,500 citations, with an h-index of 56. He has been recognized among the World's Top 2% Scientists in the Stanford University ranking.



KEYNOTE SPEAKER: Prof. Mário G. S. Ferreira
Department of Materials & Ceramic Engineering,
CICECO-Aveiro Institute of Materials, University of Aveiro, Portugal

Keynote Speech 4

November 21, 2026
Time: 11:40-12:15
Speech Title: Self-Healing Nanocontainers for Corrosion Protection. Use of Layered Double Hydroxide (LDH) to Extend the Service Life of Reinforced Concrete

Abstract. The active corrosion protection of metallic substrates can be achieved by addition of corrosion inhibitors. However, direct mixing of an inhibitor with coating formulations can lead to important drawbacks decreasing barrier properties of the coating and diminishing activity of the inhibitor.

In this work novel protective nanostructured coatings with self-healing ability are presented. This effect is obtained based on nanocontainers that release entrapped corrosion inhibitors in response to local pH changes or presence of corrosive species. The development of new nanocontainers for organic and inorganic green corrosion inhibitors is described, especially the most promising from industrial point of view, based on Layered Double Hydroxides (LDH). The combination of different of these nanocontainers in the same system has proved to be effective to accomplish further functions. To extend the service life of reinforced concrete a similar solution could be envisaged with the addition of LDH to concrete mixture.

Emphasis is placed on integrating environmentally conscious components to reduce ecological impact without compromising performance.

Biography: Mário GS Ferreira is recognized worldwide for his expertise in corrosion and materials protection, with a career spanning five decades. He has made significant contributions across various areas, including passive film electronic structures, aluminium alloys, reinforced concrete, biomaterials, coatings, corrosion inhibitors, and self-healing materials. His work also covers atmospheric corrosion and the use of localized electrochemical techniques.

He is currently an Honorary Full Professor at the University of Aveiro, Portugal, and a member of the Aveiro Institute of Materials (CICECO). He has held leadership roles such as Head of the Department of Materials and Ceramic Engineering and coordinator of the Surface Engineering and Corrosion Protection Group at Instituto Superior Técnico and University of Aveiro.

Ferreira has published over 370 peer-reviewed articles in leading corrosion journals, holds an h-index of 93 (Scopus, July 2025), and has edited 4 scientific books, co-authored 18 book chapters, and registered 5 patents. He has led numerous national and international R&D projects funded by EU programs such as Horizon 2020 and BRITE-EURAM.

He has played a pivotal role in bridging academia and industry through collaborations with companies like EADS, Airbus, FIAT, ThyssenKrupp, and Tata Steel. He has supervised many successful MSc, PhD, and postdoctoral researchers, and frequently delivers keynote and plenary lectures at international conferences.

Ferreira co-founded SmallMaTek LDA, a spin-off dedicated to corrosion and biofouling protection. He has been active in several scientific societies and EU technical committees, and also served as Deputy Director-General for Higher Education in Portugal.

Mário Ferreira received the following honors: “H.H. Uhlig Award” of Corrosion Division of The Electrochemical Society (2013), CAVALLARO Gold Medal, Univ. Ferrara/EFC (2014), Fellow of the International Society of Electrochemistry (ISE), Fellow of The Electrochemical Society (ECS), European

Corrosion Medal of the European Federation of Corrosion/EFC (2017), Marcel Pourbaix Award of the International Corrosion Council/ICC (2021), Engineers Association Award (OE Portugal)- Senior Adviser Member (2015), FEMS European Materials Gold Medal (2025).

KEYNOTE SPEAKER: Prof. Payam Shafigh
College of Architecture and Energy Engineering, Wenzhou University of Technology, China
Director, Zhejiang-Malaysia Joint Laboratory on Marine Low-carbon (Green) Building Materials



Keynote Speech 5

November 21, 2026
Time: 14:00-14:35

Speech Title: Structural Lightweight Concrete for Marine and Special Structures: Research and Practice

Abstract. As the most consumed man-made material, concrete is used in a wide range of applications in construction projects. It is generally considered a heavy material while it is also responsible for a significant portion of the carbon footprints of the construction sector. Structural Lightweight Concrete (LWC), which is typically made of a type of lightweight aggregate, is a type of concrete designed to lower the overall weight of concrete and structures while maintaining its strength and integrity. Typically, its density ranges between 1.4 to 2.0 tonnes per cubic meter with a compressive strength ranging between 20 to 70 MPa. After the fall of the Roman Empire, the use of LWC was limited until the 20th century and was used to build the warship in the First World War in the USA. The structural applications of LWAC got more attention due to its properties from the energy-related floating structures, due to it can reduce the weight of structures up to 50% while submerged in water compared to normal weight concrete. Although, there are numerous direct and indirect benefits of using structural LWC in construction industry including reducing foundation costs, enable longer span bridges, high durability, easier handling and transportation, environmental impact, and savings in time, energy and labour costs; however, its application in structures particularly in marine and high-rise building structures is still limited in many countries.

Keywords: Concrete Technology, Special Concrete, Lightweight Aggregate, Building, Bridge

Biography: Payam Shafigh has received his doctoral degree (with distinction) in Structural Engineering & Materials from the Universiti Malaya in 2013 and obtained his MSc in Civil Engineering Structure (2003) and BSc in Civil Engineering (2000) from the Babol Noshirvani University of Technology, Iran. He worked in the Universiti Malaya from 2013 to 2024 in different academic positions and he is currently working as a Distinguished Professor in the College of Architecture and Energy Engineering, Wenzhou University of Technology, Wenzhou, China. He is a Chartered Fellow of the Chartered Association of Building Engineers (CABE) and a Graduate Member of the Institution of Civil Engineers (ICE), UK. He was listed among world's top 2% scientists by Stanford University for the years 2021 to 2025. He was involved in several public and private projects as site supervisor, building surveyor, and applied advanced concrete materials in bridges and buildings such as structural lightweight aggregate concrete in Terengganu Drawbridge, Malaysia.

Invited Speakers



Prof. Aurelian Marcu
National Institute for Laser, Plasma and Radiation Physics, Romania



Prof. Ildoo Chung
Pusan National University
Republic of Korea



Dr. Andrei POPESCU
National Institute for Laser, Plasma and Radiation Physics, Romania



Prof. Kwun Nam Hui
University of Macau, Macao SAR



Prof. Laurens Theobald de Haan
South China Normal University, China



Dr. Nikita Liedienov
Jilin University, China



Prof. Mariusz Barczak
Maria Curie-Sklodowska University
Poland



Dr. Zhuo Zhang
Northwestern Polytechnical University
China



Prof. Jangyong Kim
Xi'an Jiaotong-Liverpool University
China



Prof. Kazuaki Inaba
Institute of Science Tokyo, Japan



Dr. Oscar Alonso
University of Barcelona, Spain



Prof. Chun-Hway Hsueh
National Taiwan University



Prof. Xiping Guo
Northwestern Polytechnical University
China



Prof. Ricardo Alves de Sousa
University of Aveiro, Portugal



Dr. Ruslan Kurta
European XFEL, Germany



Dr. Ihsanullah Obaidullah
University of Sharjah, UAE



Dr. Muhammad Zubair
University of Sharjah, UAE



Prof. Paulo Flores
University of Minho, Portugal



Prof. Jiaxi Xu
Beijing University of Chemical
Technology, China



Prof. Qiuming Peng
Yanshan University, China



Prof. Radan Ivanov
National Institute of Geophysics, Geodesy
and Geography, BAS Bulgaria



Prof. Georgiy Levchenko
Jilin University, China



Prof. Alois K. Schlarb
RPTU Kaiserslautern-Landau, Germany



Prof. Khaldoun Rahal
Kuwait University, Kuwait



Prof. Eika W. Qian
Tokyo University of Agriculture and
Technology, Japan

Presentations Guideline

Oral Presentation Instructions

Time Allotted for Each Presentation

Keynote Speech:35 min
Invited Talk: 20 min
Oral Presentation: 15 min

Note: The allotted time includes 3-5 minutes of Q&A.

Devices Provided by the Conference Organizer

- Laptops (with MS-Office & Adobe Reader)
- Projectors & Screen: Ratio 16:9
- Laser Sticks
- Microphones

Materials Provided by the Oral Presenters

- Microsoft PowerPoint or PDF Presentation file (Please show your paper ID as CMSE**** on the last page.)

For presenters who do not send the presentation file to the Conference Secretary before the conference, please have your presentation ready on a memory stick, and save it on the laptop of your corresponding session about **15 minutes** before session starts.

Best Oral Presentation Award

Selection Criteria

ONE best presentation will be selected from EACH Oral Session based on the following criteria:

- Research Quality
- Presentation Performance
- Presentation Language
- Interaction with Listeners
- PowerPoint Design

Selection Procedure

- An assessment sheet will be delivered to listeners before the session.
- Write the numbers of two best presentations and submit the filled assessment sheet (with the listener's name and signature) to the Session Chair before the session termination.
- The Session Chair will count the votes for each presentation and name the winner based on the maximal number of votes. The Session Chair has three votes but can use only one in favor of his/her own presentation (if any). To avoid any conflict of interest, only registered listeners are entitled to vote.

Note: The Best Oral Presentation Awards are open to contributed oral presentations only.

Nature of the Award

- This award consists of free registration for the next conference CMSE 2027 and a certificate.
- The winners will be announced at the end of each session, and results will be updated on the CMSE 2026 official website after the conference.

Assessment Sheet Sample

CMSE 2026 Oral Presentation Assessment

Dear participants,

After carefully listening to the presentations of this session, please kindly recommend two excellent Oral Presentations with reference to the following evaluation criteria.

The Session Chair will count the votes from each presentation and select ONE Best Oral Presentation in this session. If there is a tie, the Session Chair will make the final decision.

The winner will be announced at the official website after the conference.

You can refer to the following Criteria:

Items	Assessment
Content	Right, Logical, Original, Well-Structured
Language	Standard, Clear, Fluent, Natural
Performance	Spirited Appearance, Dress Appropriately, Behaves Naturally
PPT	Layout, Structure, Typeset, Animation, Multimedia
Reaction	Build a Good Atmosphere, Speech Time Control Properly

Please write down paper ID and give reasons for your recommendation:

Paper ID	Reasons

Evaluated by: _____ (Paper ID: _____)

Note: When the session finished, please fill it out and give it to the Session Chair so that the Best Oral Presentations in this session can be selected.

Poster Presentation Instructions

Materials Provided by the Conference Organizer

- Poster Softboard
- Adhesive Tapes or Clamps

Materials Provided by the Presenters

- Electronic Posters
- Posters Printed by the Conference Organizing Committee

Requirements for the Posters

- Material: not limited
- Size: 160 cm (height) ×60 cm (width)

Best Poster Presentation Award

Samples of Stickers



Selection Criteria

- Research Quality
- Presentation Skill
- Design

Selection Procedure

- Judges (who have no conflict of interest with the presenters) will be invited to evaluate the posters
- 2 red stickers and 2 green stickers will be provided for the judges. The red sticker stands for “Research Quality” with a value of 2 points; the green sticker stands for “Presentation Skill and Design” with a value of 1 point
- Each judge will go around the poster session and give stickers to the poster which he/she thinks is of high quality or well designed and well presented. Please note that the judge cannot give 2 red or 2 green stickers to the same poster (one red and one green sticker are acceptable)
- After the poster session, the conference secretary will count the points from each poster and TWO best poster presentations with more points will be selected. If there is a tie, the one with more red (Research Quality) stickers wins.

Nature of the Award

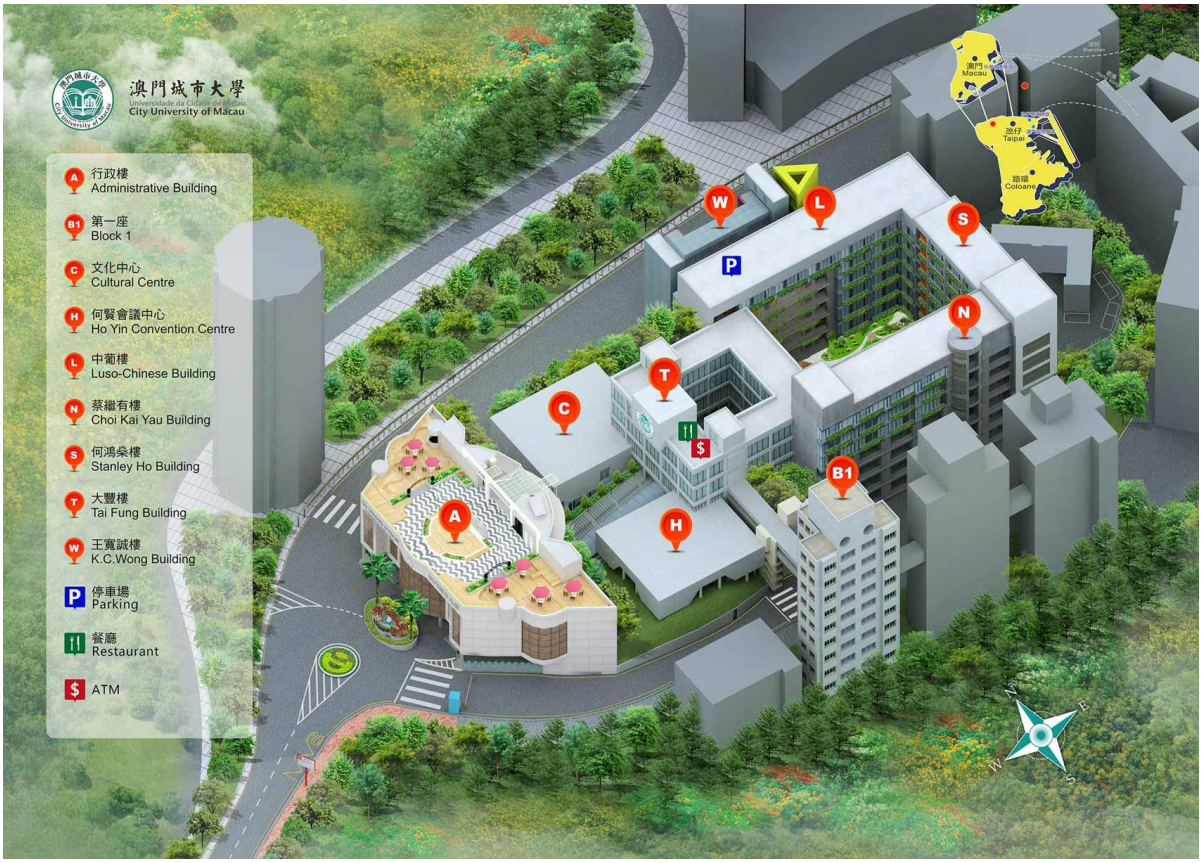
- This award consists of free registration to CMSE 2027 and a certificate.
- **TWO Best Poster Presenters** will be selected after session finishes, with certificates issued and results announced on CMSE 2026 official website.

Conference Venue

City University of Macau

Address: Avenida Padre Tomás Pereira Taipa, Macau
Website: https://cityu.edu.mo/en/





Access to City University of Macau

1. From Macao Airport (澳門國際機場)
• About 4 KM
• Approx. 8 - 10 minutes by taxi
• Approx. 40 minutes by bus MT1, and get off at T300 Esparteiro/Lou Lim Ieok (史伯泰/盧廉若站)

2. From Border Gate Terminal (澳門關閘)（注：大陸方向為拱北口岸）
• About 10 KM
• Approx. 15 - 20 minutes by taxi
• Approx. 45 - 60 minutes by bus No. 25, and get off at T300 Esparteiro/Lou Lim Ieok (史伯泰/盧廉若站)

3. From Hong Kong- Zhuhai-Macao Bridge Frontier Port (港珠澳大橋澳門口岸)
• About 16 KM
• Approx. 25 minutes by taxi
• Approx. 45 - 60 minutes. Take bus No.102X, and get off at Chun Lai Garden (泉澧花園)

4. From New Hengqin Port (橫琴口岸澳門口岸)
• About 9 KM
• Approx. 20 minutes by taxi
• Approx. 30 - 40 minutes. Take bus No. 101X, and get off at T300 Esparteiro/Lou Lim Ieok (史伯泰/盧廉若站)

Notes: The campus is located on a hill. If you alight at Esparteiro/Lou Lim Ieok, please allow 10-15 minutes for the uphill walk. Comfortable footwear is recommended.

Field Trip

Monday, November 23, 2026 | Time: 09:00-16:00

09:00	**Depart from City University of Macau** Gather at: Rotunda Dr. Carlos A. C. P. D'Assumpção Bus Stop T307 (alongside the uphill road to CityU main gate) 宋玉生博士圓形地巴士站 T307（城大校門上坡旁）
09:00-10:00	**Ruins of St. Paul**
10:00-11:00	**Maritime Museum**
11:00-12:00	**A-Ma Temple**
12:00-16:00	**Free time at The Venetian Macao**

Note: This itinerary is subject to changes based on operational needs and the tour guide's instructions.

Tips:

1) Participant information is required for registration.
2) Please present your Tour Ticket when getting on the bus. Please take care of your Tour Ticket as it is the only access to the tour.
3) Please follow the arrangement of the guide. Participants are not allowed to leave the team without permission.



Ruins of St. Paul



A-Ma Temple



Maritime Museum



The Venetian Macao

Invitation Letter

The 16th Global Conference on

Materials Science and Engineering

CMSE 2027

November 17-20, 2027 | Matsue, Japan



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Memo

Website

Contact Us

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