



GMMT 2025

**2025 International Conference on
Green Materials and Manufacturing Technology**



04

CONFERENCE AGENDA

Detailed Agenda

Day one: 23rd June, 2025 Venue: Churchill College, University of Cambridge (Wolfson Hall)		
British Summer Time	China Standard Time	Event
14:00-17:30	21:00-00:30	On-site Registration
Day two: 24th June, 2025 Venue: Churchill College, University of Cambridge (Wolfson Hall) Zoom ID: 884 1002 5404 Passcode: 250624 Link: https://zoom.us/j/88410025404?pwd=xihWXgF7129nfWRSOWlWdkaqiyC4v5.1		
08:00-08:30	15:00-15:30	On-site Registration
08:30-08:50	15:30-15:50	Opening Remarks
08:50-09:00	15:50-16:00	Group Photo
Plenary Lecture		
09:00-09:30	16:00-16:30	Speaker I: Prof. Sir Harry Bhadeshia Queen Mary University of London, UK <i>"Mitigating the CO₂ burden of steel: science & legislation"</i>
09:30-10:00	16:30-17:00	Speaker II: Prof. R Vasant Kumar University of Cambridge, UK <i>"Hydrogen Economy – How Long?"</i>
10:00-10:20	17:00-17:20	Coffee Break
10:20-10:50	17:20-17:50	Speaker III: Prof. S. Ravi P. Silva CBE FREng FISC FCAE University of Surrey, Guildford, UK <i>"Innovative Energy Systems for a Net-Zero Future: The Role of Advanced Materials and Smart Technologies"</i>
10:50-11:20	17:50-18:20	Speaker IV: Prof. Ali R. Kamali FRSC Northeastern University, China <i>"Innovative molten salt technologies: Green solutions for strategic materials and waste upcycling"</i>
11:20-11:50	18:20-18:50	Speaker V: Prof. Nguyen Thi Kim Thanh University College London, UK <i>"Plasmonic and Magnetic Nanoparticles for Biomedical Applications"</i>

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Venue: Churchill College, University of Cambridge (Wolfson Hall)

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British Summer Time	China Standard Time	Event
11:50-12:30	18:20-19:00	<p>Roundtable Discussions</p> <p>Panelists:</p> <ul style="list-style-type: none"> · Prof. Xinyong Li, Dalian University of Technology, China · Prof. Beti Andonovik, Ss. Cyril and Methodius University, Macedonia · Mr. Ingo Gustav Wender, Founder of Advanced Potash Technologies, Brazil · Dr. Michael Rowan, The Royal Society of Chemistry, UK · Dr. Alan Bates, Reddie & Grose, UK
12:30-14:00	19:00-21:00	Lunch Break

Detailed Agenda

Day two: 24th June, 2025

Session one: Churchill College, University of Cambridge (**Club Room**)

Zoom ID: 882 9456 8711 Passcode: 250624

Link: <https://zoom.us/j/88294568711?pwd=3AKwVM4AyKqaDuJ0N1o6OzCbYM6Z5O.1>

Invited Speech

British Summer Time	China Standard Time	Event
14:00-14:25	21:00-21:25	Speaker I: Prof. Xinyong Li Dalian University of Technology, China <i>"Rational Design of Carbon and Spinels Derived Tandem Green Nano Materials towards Sustainable Applications"</i>
14:25-14:50	21:25-21:50	Speaker II: Ingo Gustav Wender Founder of Advanced Potash Technologies, Brazil <i>"Clean Production of Potassium Fertilizer from Igneous Rock, and the Potential Impact on Global Food Security"</i>
14:50-15:10	21:50-22:10	Speaker III: Prof. Carsten Schwandt Gdańsk University of Technology, Poland <i>Synthesis of alloys and compounds via the FFC-Cambridge electro-deoxidation process – but is it green?</i>
15:10-15:35	22:10-22:35	Speaker IV: Dr. Niranjala Fernando Vianode, Norway <i>"Perfecting the "E" in EVs"</i>
15:35-15:50	22:35-22:50	Coffee Break
15:50-16:15	22:50-23:15	Speaker V: Dr. Giorgio Divitini Italian Institute of Technology (IIT), Italy <i>"Electron microscopy of catalysts"</i>
16:15-16:40	23:15-23:40	Speaker VI: Assoc. Prof. Amor Abdelkader Bournemouth University, UK <i>"Energy storage beyond lithium-ion batteries"</i>
16:40-17:05	23:40-00:05	Speaker VII: Dr. Bahman Amini Horri University of Surrey, Guildford, UK <i>"Hybrid Hydrothermal-Electrochemical Water-Splitting Approach for Improving Hydrogen Production Efficiency"</i>

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Session one: Churchill College, University of Cambridge (**Club Room**)

Zoom ID: 882 9456 8711 Passcode: 250624

Link: <https://zoom.us/j/88294568711?pwd=3AKwVM4AyKqaDuJ0N1o6OzCbYM6Z5O.1>

British Summer Time	China Standard Time	Event
Oral Presentation		
17:05-17:20	00:05-00:20	Reporter I: Shenglei Zhao China University of Mining and Technology, China <i>"Acoustic emission and electromagnetic radiation signal expansion method based on generative adversarial learning"</i>
17:20-17:35	00:20-00:35	Reporter II: Mohammed Alyoubi Bournemouth University, UK <i>"Optimising the regeneration process of spent lithium-ion battery cathode through performance analysis model"</i>
17:35-17:50	00:35-00:50	Reporter III: Zhuoyu Li Nagoya University, Japan <i>"Ti-Al Intermetallic Formations in Ti/Mg-Al Composites via Pressure-less Melt Infiltration and Their Impact on Corrosion Resistance"</i>
17:50-18:05	00:50-01:05	Reporter IV: Jiaxin Li Shanghai Jiao Tong University, China <i>"Tuning ionic channels in carbon-binder domains of carbon-based electrodes"</i>
18:05-18:10	01:05-01:10	Closing Ceremony
18:10-20:00	01:10-03:00	Dinner
Day three: 25th June, 2025		
Venue: Churchill College, University of Cambridge		
09:00-11:00	16:00-18:00	Cambridge River Tours

Detailed Agenda

Day two: 24th June, 2025

Session two: Churchill College, University of Cambridge (**Seminar room 2**)

Zoom ID: 884 1002 5404 Passcode: 250624

Link: <https://zoom.us/j/88410025404?pwd=xihWXgF7129nfWRSOWIWdkaqiyC4v5.1>

Invited Speech

British Summer Time	China Standard Time	Event
14:00-14:25	21:00-21:25	Speaker I: Prof. Zhao Wang South China University of Technology, China <i>"Development of Biobased and Biodegradable Polyester Rubber"</i>
14:25-14:50	21:25-21:50	Speaker II: Prof. Beti Andonovik Ss. Cyril and Methodius University, Macedonia <i>"Electrochemical Synthesis of Graphene and Carbon Nanotubes in Molten Salts: Structural Characterization and Data-Guided Process Optimization"</i>
14:50-15:10	21:50-22:10	Speaker III: Prof. Pier Paolo Piccaluga University of Bologna, Italy <i>"Green Biobanking: Paving the Path to Sustainable Practice"</i>
15:10-15:35	22:10-22:35	Speaker IV: Assoc. Prof. Duygu Ege Boğaziçi University, Turkey <i>"Applications of Green Materials for Tissue Engineering"</i>
15:35-15:50	22:35-22:50	Coffee Break
15:50-16:15	22:50-23:15	Speaker V: Dr. Christopher Roads University of Cambridge, UK <i>"The historical evolution of environmental consciousness and its morphing, in terms of health particularly, into a greener future for expanding humanity"</i>
16:15-16:40	23:15-23:40	Speaker VI: Dr. Ayşenur Gül Işık University, Turkey <i>"Enhancement of Epoxy Properties Through Graphene Nanofillers Produced in Molten Slat: Morphological, Thermal and Mechanical characterization"</i>

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Day two: 24th June, 2025

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British Summer Time	China Standard Time	Event
16:40-17:05	23:40-00:05	Speaker VII: Assistant Prof. Mohd Ubaidullah King Saud University, Riyadh, Saudi Arabia <i>"Waste polyethylene terephthalate (PET) plastic derived MOFs for Energy Applications"</i>
17:05-17:30	00:05-00:30	Speaker VIII: Dr. Asma Rezaei Anglia Ruskin University, UK <i>"Analysis of collaboration between University of Cambridge and high-tech firms in Silicon Fen"</i>
Oral Presentation		
17:30-17:45	00:30-00:45	Reporter I: Yayou Huang Dious Furniture Group Co., Ltd, China <i>"Green Coatings Enabling Sustainable Electromagnetic Shielding in Medical Spaces"</i>
17:45-18:00	00:45-01:00	Reporter II: Mingming Zheng Chengdu University of Technology, China <i>"Microbial carbon sequestration and performance enhancement of cement mortar via synergistic action of Bacillus subtilis and shale ceramsite"</i>
18:00-18:15	01:00-01:15	Reporter III: Hong Wu Fujian University of Technology, China <i>"Evaluation and Indicator System of Green Production Methods in China's Economy"</i>
18:15-18:20	01:15-01:20	Closing Ceremony
18:20-20:00	01:20-03:00	Dinner
Day three: 25th June, 2025		
Venue: Churchill College, University of Cambridge		
09:00-11:00	16:00-18:00	Cambridge River Tours