



5th International Conference on

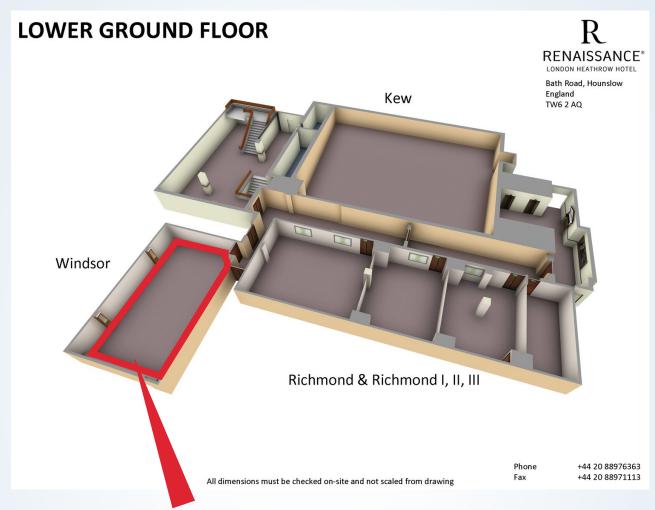
ADVANCED FUNCTIONAL MATERIALS

8

BIOMATERIALS & BIODEVICES

October 14-15, 2024 | London, UK

Floor Map



Conference Hall



Wi-Fi Details:

Username: Marriott Guest

Password not required - Open Wi-Fi

Conference Program

Scientific Program

5th International Conference on

Advanced Functional Materials & Biomaterials & Biodevices

	Day 1 – October 14th 2024
	Meeting Hall : Windsor Suite
08:00 -08:45	Registrations
08:45 - 09:00	
	Keynote Presentations
09:00 - 9:40	Protective Nanocoatings from Polyelectrolytes: Flame Retardancy, Heat Shielding, and Super Gas Barrier
	Jaime C. Grunlan, Texas A&M University, USA
09.40 - 10.20	Fully Bioresorbable Polymeric Scaffolds for Treatment of Peripheral and Coronary Diseases: Current Developments and Future Perspectives
	Kadem Al-Lamee, Arterius Limited, United Kingdom
	Networks & Refreshments (10.20 - 10.40) @York Lobby
10:40 - 11:20	Advanced Carbon Based Materials via Sustainable Synthetic Procedure for Sensing and Environmental Applications
	Claudia Espro, University of Messina, Italy
	Oral Presentations
Session chair	Jaime C. Grunlan, Texas A&M University, USA
Session chair	Kadem Al-Lamee, Arterius Limited, United Kingdom
Sessions:	Functional Hybrid Materials Applications of Biomaterials Carbon Based Materials Biomimetic Materials Bio-inspired Intelligent Biomaterials Biomaterials in Drug Delivery Systems Functional Materials, Synthesis and Characterizations Advanced materials and Applications Biomaterials & Nano technology Biodevices and Biomedical Optics Functional Materials Energy Materials Micro or Nano Materials Biomaterials
11.20 - 11.45	Hydrogels Sustainable Materials
	Hydrogels Sustainable Materials From Biomimicry to Architecture: The Future of Responsive Shading
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11.45 - 12.10	Hydrogels Sustainable Materials From Biomimicry to Architecture: The Future of Responsive Shading Maria João de Oliveira, ISCTE — Instituto Universitário de Lisboa, Portugal Synthesis of Functionalized Chitosan Polymeric Nanoparticles and their Properties for Controlled Drug Release
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12.10 - 12.35	From Biomimicry to Architecture: The Future of Responsive Shading Maria João de Oliveira, ISCTE – Instituto Universitário de Lisboa, Portugal Synthesis of Functionalized Chitosan Polymeric Nanoparticles and their Properties for Controlled Drug Release Nekane Martin, I+Med S.Coop., EHU/UPV, Spain Investigation on Corrosive Degradation of the Thermally Sprayed TiNbMoMnFe High Entropy Alloy Coatings in Simulated Body Fluid Deepak Kumar, Indian Institute of Technology Delhi (IIT Delhi), India The Impact of Metal Dots on Time-Resolved Luminescence of Aero-GaN
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Monday October 14, 2024

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14.25 - 14.50	Advancing Uniform Stochastic Design in Photomatrix Therapeutic Systems
14.23 - 14.30	Oleg Karaduta, University of Arkansas for Medical Sciences, USA
14.50 - 15.15	Green Carbon-Based Nanomaterials with Advanced Properties for Environmental Applications
	Viviana Bressi, University of Messina, Italy
15.15 - 15.40	SEWAT - Sustainable Energy by Waves Trap
	Giulio Teodoro Maellaro, Geco -Global Engineering Constructions S.R.L. , Italy
15.40 - 16.05	Dual-Action Coatings for Implant Failure Prevention in Temporary Magnesium-Based Orthopaedic Implants
	Isabel Sousa, DEMaC/CICECO, University of Aveiro, Portugal
	Networks & Refreshments (16.05 - 16.30) @York Lobby
	Poster Presentations @ 16:30 - 18:00
Poster Judge	Kadem Al-Lamee, Arterius Limited, United Kingdom
PP-01	Experimental and Computational Studies of Crystal Violet Removal from Aqueous Solution using Sulfonated Graphene Oxide
	Olayinka Oluwaseun Oluwasina, The Federal University of Technology Akure, Nigeria
PP-02	Development of a Critical Time-Temperature Indicators (cTTI) using Thermosensitive Copolymers with Tunable LCST
	Seung Won Jung, Dongguk University, South Korea
PP-03	From Sea Urchins Waste to Tissue Regeneration: Innovative Composite Biomaterials
	Giordana Martinelli, University of Milan, Italy
PP-04	Comparative Evaluation of Sea Urchin Waste as a Sustainable Source of Bioactive Collagen-Based Biomaterials
	Margherita Roncoroni, University of Milan, Italy
PP-05	Flexible Thermoelectrics based on 3D Interconnected Magnetic Nanowire Networks
	Luc Piraux, UCLouvain, Belgium
PP-06	Tuning the Structure-Functional Relationship within Peptide-Mimicking Antimicrobial Hydrogels
	Samuel Attard, University of New South Wales, Australia
PP-07	Categorizing/Testing Biomaterials, A Major Challenge for Valeo Lighting Systems / Light Division
	Laurent Barre, Valeo Lighting Systems, France
PP-08	Food-Based Biomaterials: p ^H -Responsive Alginate/Gellan Gum/Cellulose Hydrogel Beads for Lactoferrin Delivery
	Lin Cao, Ghent University, Belgium
PP-09	Study of Ceramic Coatings as a Novel Radiation Receiver on Furnace Building Materia using Thermal Spraying Technique
	Wu-Han Liu, Industrial Technology Research Institute, Taiwan
	Day 1 Concludes followed by Certificate Felicitation

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Meeting Hall: Windsor Suite Keynote Presentations Nickel-Zinc Ferrite and Graphene Nanoplatelet-Enhanced Epoxy Hybrid 9.30 - 10.10 Nanocomposites Sahrim Ahmad, Universiti Kebangsaan Malaysia, Malaysia			
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4 E 1			
An Environment-Friendly Na _{0.4} K _{0.1} Bi _{0.5} TiO ₃ Ceramic for Direct Replacement of PZT- 10.10 - 10.50 Based Ceramics in Multiple Applications			
Ajit R. Kulkarni, Indian Institute of Technology-Bombay (IIT Bombay), India			
Networks & Refreshments (10.50 - 11.15) @York Lobby			
Oral Presentations			
Session chair Ajit R. Kulkarni, Indian Institute of Technology-Bombay (IIT Bombay), India			
Session chair Kadem Al-Lamee, Arterius Limited, United Kingdom			
Advanced Functional Materials Functional Materials Hydrogels Biode- Sessions: gradable Biomaterials Thin Films 3D Bio Printing Technology Biosensors Biorobotics	&		
Chemically Identical Hydrogels with Distinct Mechanical Properties			
11.15 - 11.40 Xingjian Sun, Shenzhen Institute of Advanced Technology & Chinese Academy of Sciences, China			
Exploring the Potential of CsPbBr ₃ Perovskite Solar Cells: Experimental and Theoret 11.40 - 12.05 Investigations	cal		
Amina Laouid, Nicolaus Copernicus University in Torun, Poland			
4D Printed Piezoelectric Bilayer Wound Dressing Mesh to Accelerate Skin Wound 12.05 - 12.30 Healing			
Gholamreza Mohammadi Khounsaraki, Institute of Materials Research, Slovak	a		
12.30 - 12.55 Advancements in Fiber Optic Biosensors for Real-Time Glucose Monitoring			
Pallavi Dhillon, Shen Clinical Services LLP, India			
12.55 - 13.20 Membrane Separation Technology in Direct Air Capture			
Naiying Du, National Research Council of Canada (NRC), Canada			
Lunch (13.20 - 14.30) @Market Garden Restaurant			
Preparation, Function, and Safety Evaluation of a Novel Degradable Dermal Filler, 14.30 - 14.55 Cross-Linked Poly-Γ-Glutamic Acid Hydrogel Particles	Γhe ——		
Mian Chen, Shandong Academy of Pharmaceutical Sciences, China			
Microwave-Synthetized Lanthanide Upconversion Nanoparticles: Light 14.55 - 15.20 Nanotransducers for Biomedical Applications.			
Gloria Lesly Jimenez Miranda, AGH University of Krakow, Poland			

Tuesday October 15, 2024

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Biopolymer Based in Situ Injectable Hydrogels Loaded with Curcumin Nanocrystals for 15.20 - 15.45 Bone Tissue Engineering, (HydroBoneReg)

Syed Ahmed Shah, Institute of Fundame, Poland

15.45 - 16.10

To be announced..

Ketevan Tavamaishvili, Georgian American University, Georgia

Networks & Refreshments (16:10- 16:30) @York Lobby

Day 2 Concludes followed by Vote of thanks and Certificate Felicitaions



Bookmark The Dates

6th International Conference on

Biomaterials & Biodevices

September 22-23, 2025 | Vienna, Austria



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