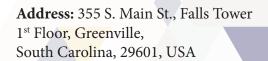


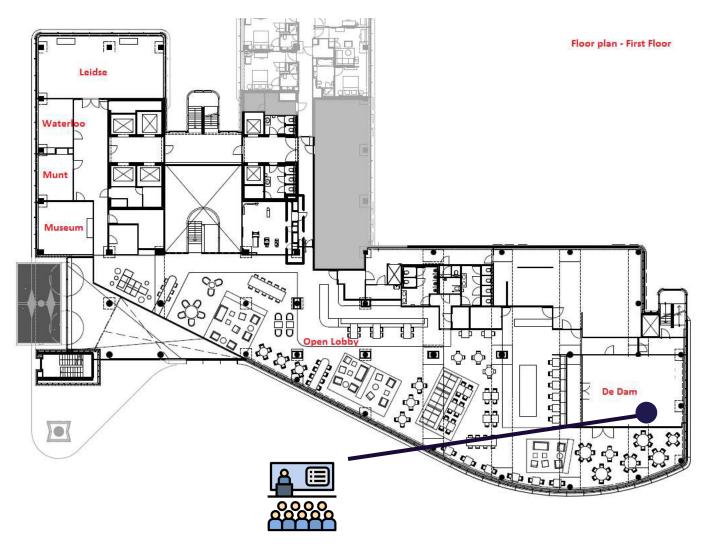
European Congress on

MATERIALS SCIENCE AND ENGINEERING

April 03-04, 2025 **Amsterdam, Netherlands**



Floor Map



#ConferenceHall - De Dam

Wifi Details:

Username: Holiday Inn

Password not required - Open Wi-Fi

SCIENTIFIC PROGRAM

#DAY 1 - April 03, 2025

Meeting Hall: De Dam

08.30 - 09.15 Registrations

Moderator

Biswa Nath Bhadra, French National Centre for Scientific Research, France

09.15 - 09.30 Introduction

	Keynote Presentations	
09.30 - 10.15	Title: Design Essentials for Future Ready Micro/Nano Cleanrooms	
Eric Stuiver, Deerns Group, The Netherlands		
10.15 - 11.00	Title: 4D Analyses of Kirkendall Porosity and Microstructure in Diffusion Couples of Ni/Ni-Based Superalloy Cmsx-4	
Bettina Camin, Hochschule Bremerhaven, Germany		
11.00 - 11.45	Title: Computation-Driven Design of Materials Related to Lithium-Ion Batteries through Theoretical Studies	
Jyh-Chiang Jiang, National Taiwan University of Science and Technology, Taiwan		
11.45 - 12.00 Networking and Refreshments @ Foyer		
12.00 -	12.15 Group Photo	
	Oral Presentations	
Session Chai	Session Chair:	
Eric Stuiver, Deerns Group, The Netherlands		
Sessions: Materials Science and Engineering Energy & Hybrid Materials Nanodevices & Sensors Surface Science Additive Manufacturing of Materials		
12.15 - 12.40	Title: Water Electrospray, Hydroxyl Radical Water, and its Applications	
Seung S Lee, KAIST, Korea		
12.40 - 13.05	Title: Next-Gen Solar Photocatalysis: Vacancy-Tailored 1D Melem Nanorods for Enhanced Photocatalytic CO2 Reduction Coupled with Organic Synthesis under Visible Light	
Pratibha Saini Urhan, Friedrich-Schiller-Universitat Jena, Germany		
13.05 - 14.00 Lunch @ Restaurant		

	Title: Photomemristor Sensor Based on Two-Dimensional Crystals for Artificial	
14.00 - 14.25	Vision	
Gennady N Pa	nin, Russian Academy of Sciences, Russia	
14.25 - 14.50	Title: Development of Anti-Corrosive and Anti-Fouling Coatings for Marine Application	
Sathiya Paulra	Sathiya Paulraj, National Institute of Technology Tiruchirappalli, India	
14.50 - 15.15	Title: Electrochemically Assisted Growth of Organic/Inorganic Hybrid Thin Films	
Biswa Nath Bl	hadra, French National Centre for Scientific Research, France	
15.15 - 15.40	Title: Exploiting the Performance of Indoor Dye-Sensitized Solar Cells using Copper Polymer Gel Electrolytes with γ-Butyrolactone Solvent	
Fatima Santos, University of Porto, Portugal		
15.40 - 16.05	Title: Grain Structure, Strength and Degradation Mechanisms of Hastelloy X Welds by Laser Bean Welding Process	
Sathiya Paulra	aj, National Institute of Technology Tiruchirappalli, India	
16.05 -	16.30 Refreshments @ Foyer	
16.30 - 16.55	Title: Mechanical Strength Analysis of Additive Manufactured PLA Specimens with Variable Infill Patterns and Densities	
Gouri Vignesh	Jawalkar, Indian Institute of Technology Kharagpur, India	
	Poster Presentation	
P01	Title: Flexible Morphological Regulation of Photothermal Nanodrugs: Understanding the Relationship of Structure, Photothermal Effect and Tumoral Biodistribution	
Shukun Li, Ein	ndhoven University of Technology, Netherlands	
D02		
P02	Title: Development of Pani/CuMn ₂ O ₄ Nanocomposite via Hydrothermal Method as a Novel Electrode Material for Supercapacitor	
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	as a Novel Electrode Material for Supercapacitor	
	as a Novel Electrode Material for Supercapacitor SA Almalki, Taif University, Saudi Arabia	
Abdulraheem E-Poster 1	as a Novel Electrode Material for Supercapacitor SA Almalki, Taif University, Saudi Arabia e-Poster Presentation Title: The Use of Wool Fibers as a Column Packing Medium for the Dynamic	
Abdulraheem E-Poster 1	as a Novel Electrode Material for Supercapacitor SA Almalki, Taif University, Saudi Arabia e-Poster Presentation Title: The Use of Wool Fibers as a Column Packing Medium for the Dynamic Adsorption of Methylene Blue Dye from Aqueous Solutions	
Abdulraheem E-Poster 1 Bogdan-Const E-Poster 2	as a Novel Electrode Material for Supercapacitor SA Almalki, Taif University, Saudi Arabia e-Poster Presentation Title: The Use of Wool Fibers as a Column Packing Medium for the Dynamic Adsorption of Methylene Blue Dye from Aqueous Solutions antin Condurache, Institute of Macromolecular Chemistry Petru Poni, Romania	
Abdulraheem E-Poster 1 Bogdan-Const E-Poster 2	as a Novel Electrode Material for Supercapacitor SA Almalki, Taif University, Saudi Arabia e-Poster Presentation Title: The Use of Wool Fibers as a Column Packing Medium for the Dynamic Adsorption of Methylene Blue Dye from Aqueous Solutions antin Condurache, Institute of Macromolecular Chemistry Petru Poni, Romania Title: Effect of Magnetic Properties on Deperming using Preisach Model	

E-Poster 4	Title: Analysis of Influence of Magnetic Materials during Deperming for Reducing the Magnetic signals of a Warship
Sang Hyeon Im, Dong Eui University, South Korea	
E-Poster 5	Title: Bending, Stability and Natural Vibrations of a Graphene Sheet
Samvel H Sargsyan, Shirak State University, Armenia	

Day 1 Concludes followed by Award Felicitation

SCIENTIFIC PROGRAM

#DAY 2 - April 04, 2025

Meeting Hall: Rembrandt 4

Moderator

Nekane Guarrotxena, Spanish National Research Council, Spain

Keynote Presentations		
10.00 - 10.45	Title: Interface Analysis of Diffusion-Welded Nickel/Nickel-Based Superalloy Cmsx-4	
Bettina Camin, Hochschule Bremerhaven, Germany		
10.45 - 11.30	Title: Electrocatalytic Mechanism of Nitrogen Reduction on Iro ₂ (110) Surface: A DFT Study	
Jyh-Chiang Jiang, National Taiwan University of Science and Technology, Taiwan		
11.30-	11.30-11.45 Networking and Refreshments @ Foyer	
11.45 - 12.30	Title: Eliminating Implant Infection: 30,000 Nanotextured Orthopedic Implants in Humans with No Infection	
Thomas J Wel	Thomas J Webster, Northeastern University, USA	
	Oral Presentations	
Session Cha	ir:	
Bettina Cam	in, Hochschule Bremerhaven, Germany	
Sessions: Nano	omaterials Mining and Metals	
12.30 - 12.55	Title: Polymer-Nanoparticle Synergistic Approach for Bio and Energy Applications	
Nekane Guarr	rotxena, Spanish National Research Council, Spain	
12.55 -	14.00 Lunch @ Restaurant	
14.00 - 14.25	Title: Creating an Innovative Electrochemical Nitrite Sensors Utilizing Zn-Schiff Base Complexes	
Zahra Akbari	Zahra Akbari, University of Messina, Italy	
14.25 - 14.50	Title: Numerical Investigation of Sulfur Removal During Heat Hardening Induration of Direct Reduction Grade Iron Ore Pellets	
Mehdi Azizka	Mehdi Azizkarimi, Golgohar Mining and Industrial Company, Iran	
14.50 - 15.15	Title: Anticancer Potentials of Zinc Oxide - Chamaemelum Nobile against Breast Cancer: A Novel Approach for Synergistic Breast Cancer Therapy	
Alaa Yousef Ghidan, International University of Science and Scientific Research Development, UK		

15.15 - 15.40	Title: <i>In situ</i> Antitumor Vaccine Composed of a Nanostructured Emulgel System Carrying Immunogenic Chemotherapeutics in Immunization in Pre-Clinical Breast Cancer Models
João Paulo Figueiró Longo, University of Brasília, Brazil	
Video Presentations	
15.40 - 16.00	Title: Circumventing Challenges in Developing CVD Graphene on Steels for Extraordinary and Durable Corrosion Resistance
Raman Singh, Monash University, Australia	

Day 2 Closing Ceremony followed by Award Ceremony

16.00 - 16.30 Networking and Refreshments @ Foyer

VIRTUAL PROGRAM

#DAY 1 - April 03, 2025

09.45 - 10.00 Introduction

Keynote Presentations		
10.00 - 10.30	Title: Azodye Photoaligned Nanolayers for New Liquid Crystals Display and Photonics Devices	
Vladimir G. C	higrinov, Hong Kong University of Science and Technology, Hongkong	
Oral Presentations		
Sessions: Materials Science and Engineering Nano Materials Surface Science Polymers and Biopolymers Biomaterials		
10.30 - 10.55	Title: The Synergistic Effects of Graphene Nanoparticles on the Surface Wettability and Barrier Properties of Polydimethylsiloxane based Composite Coatings	
Sachin Sharma Ashok Kumar, Taylor's University, Malaysia		
10.55 - 11.20	Title: Development of Biofunctional Materials by Surface Engineering using Low-Energy Non-Thermal Electron Beam Technology	
Nic Gurtler, Fraunhofer Institute for Electron Beam and Plasma Technology, Germany		
11.20 - 11.45	Title: Development of PVA-Chitosan-Polyaniline Hydrogels with Adjustable APS Concentrations for Enhanced Stability and Optimized Solar Vapor Generation Efficiency	
Syazwani Moh	Syazwani Mohd Zaki, International Islamic University Malaysia, Malaysia	
11.45 - 12.10	Title: Nanotechnology: A Review on Personalized Cancer Therapy and Diagnosis	
A. V. Vasanthi,	A. V. Vasanthi, Sarojini Naidu Vanita Pharmacy Maha Vidyalaya, India	
12.10 - 12.35	Title: Use of Indocyanine Green Fluorescence Imaging in the Extrahepatic Biliary Tract Surgery	
Orestis Ioannie	Orestis Ioannidis, Aristotle University of Thessaloniki, Greece	
12.35 - 13.00	Title: Nano Suspensions as a Promising Drug Delivery System	
B. Medha Gay	B. Medha Gayatri, Sarojini Naidu Vanita Pharmacy Maha Vidyalaya, India	
13.00 - 13.25	Title: Explore the Thermal Properties, Kinetic and Thermodynamics Analysis of Local Beverage Wastes Pyrolysis Using TG/DTG: Implications for Sustainable Energy in Ethiopia	
Alebel Abebaw Teshager, Bahir Dar University, Ethiopia		
13.25 - 13.50	Title: Nano-Optics based on Silicon and Gold Core-Shell Architectures for Biophotonics and Bioassays	
A. Guillermo I	A. Guillermo Bracamonte, Universidad Nacional de Córdoba, Argentina	

Vormata Duagantation	
S. Sikdar, RVS College of Engineering and Technology, India	
13.50 - 14.15	Title: Current Applications of AI/MI in Hot Strip Mill

Keynote Presentation

14.15 - 14.45 | Title: Thermal-Induced Coarsening: Nanoparticle Size Modulation

Paulo C. De Morais, Catholic University of Brasilia, Brazil

Day 1 Concludes followed by Award Ceremony

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