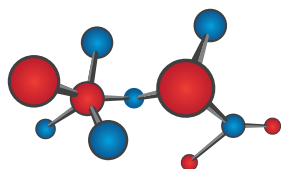


SMS 2025
SMART MATERIALS AND SURFACES



Nanomed
2025



EGF 2025
European Graphene Forum

SENSORS
2025



SMS 2025 / NANOMED 2025 / EGF2025 / SENSORS 2025

JOINT CONFERENCES

29 - 31 October 2025
Rome, Italy

Conference Program

Organizer



SETCOR
Conferences & Exhibitions

SMS / NanoMed / Sensors / EGF 2025
Joint International Conferences Program
29 - 31 October 2025, Rome – Italy

Program at a Glance

29 October 2025

Morning Session:

SMS 2025 / EGF 2025 / Sensors 2025 / NanoMed 2025 Joint Plenary Session I
Conference room **PLEIADI (ELETTRA + ATLANTE + MAIA)**

Afternoon Sessions:

SMS 2025 / EGF 2025 Session I. A: Smart & Multifunctional Materials, Coatings and Surfaces
Conference Room **ELETTRA + ATLANTE**

SMS 2025 / Sensors 2025/ EGF 2025- Session I. B: Innovations in Sensing Principles, Materials, and Fabrication/ Graphene and 2D Materials
Conference Room **MAIA**

SMS 2025 / NanoMed 2025 - Session I. C: Next Gen Nanomaterials and Biofabrication / Bioinspired / Biomimetic Bioactive Materials
Conference Room **LIBRA + TAURUS**

30 Oct.2025

Morning Sessions

SMS 2025 / EGF 2025 / Sensors 2025 / NanoMed 2025 Joint Plenary Session II
conference room **PLEIADI (ELETTRA + ATLANTE + MAIA)**

EU projects Workshop: Next-Gen Nanocoatings: Accelerating Antimicrobial Innovation with Modeling & AI
conference room **PLEIADI (ELETTRA + ATLANTE + MAIA)**

EGF 2025 / Sensors 2025 joint Session II. A: 2D Materials for Electronics, Energy, and Life Sciences
Conference Room **LIBRA + TAURUS**

Group Photo at 13:45 – All participants

Afternoon Sessions:

EU projects Workshop: Next-Gen Nanocoatings: Accelerating Antimicrobial Innovation with Modeling & AI
Conference room **ELETTRA + ATLANTE**

SMS 2025 / Sensors 2025 Focus Session II.B: Biosensors and Biosensing / Biomedical Sensors
Conference Room **LIBRA + TAURUS**

SMS 2025 / Sensors 2025 Focus Session II.C: Next-Gen Miniaturized Biosensors: Toward Smart, Scalable, and Portable Sensing Systems
Conference Room **LIBRA + TAURUS**

NanoMed 2025 Session II. D: Therapeutics, Regeneration & Oncology / Diagnostics and Imaging / Safety & Future Frontiers
Conference Room **MAIA**

Conference Dinner – Subject to registration
Conference venue hotel, 30 Oct. 2025 from 19:30

31 Oct. 2025

SMS 2025 / EGF 2025 Session III.A: Applications for energy and environment
Conference room **LIBRA + TAURUS**

Sensors 2025 Session III.B: Environmental Sensors/ Smart Sensor Networks/ AI Integration
Conference room **MAIA**

Posters Sessions

29 - 30 October 2025: Conference room **ANDROMEDA**

Wed. 29 Oct. 2025		
08:00 - 12:00	Conference Registration	
09:00 - 09:30	Welcome Coffee Break - Foyer	
SMS 2025 / EGF 2025 / Sensors 2025 / NanoMed 2025 Joint Plenary Session I		
Conference Room PLEIADI		
Session Chairs: Prof. Michele Penza, ENEA, Italy Prof. Camillo la Mesa, Sapienza University of Rome, Italy Prof. Riccardo Checchetto, University of Trento, Italy		
10:00 - 10:30	Benzene: the Molecule that Changed the World N. Martín	Prof. Nazario Martín León, Complutense Univ. of Madrid/ IMDEA, Spain
10:30 - 11:00	Development of Advanced Magnetic Microwires with Amorphous Structure for Technological Applications A. Zhukov, P. Corte-León, J. M. Blanco and V. Zhukova	Prof. Arcady Zhukov, University of Basque Country, Spain
11:00 - 11:30	Surfaces and Interfaces for Radiative Cooling through to Gas Sensing I. Parkin	Prof. Ivan Parkin, University College London, UK
11:30 - 12:00	Integrated Experimental and Computational Tools for Smart Corrosion Prediction in Organic-Coated Metals H. Terryn	Prof. Herman Terryn, Vrije Universiteit Brussel, Belgium
12:00 - 12:30	Plasmonic Single-Molecule Affinity Detection at 10 ⁻²⁰ Molar L. Torsi	Prof. Luisa Torsi, University of Bari, Italy
12:00 - 14:00	Lunch Break – Restaurant	
SMS 2025 / EGF 2025 Session I. A: Smart & Multifunctional Materials, Coatings and Surfaces		
Conference Room ELETTRA + ATLANTE		
Session Chairs: Prof. Arcady Zhukov, University of Basque Country, Spain Prof. Herman Terryn, Vrije Universiteit Brussel, Belgium Prof. Efstathios Meletis, The University of Texas, USA		
14:00 - 14:30	Hybrid Green Materials based on Halloysite Clay Nanotubes G. Cavallaro	Prof. Giuseppe Cavallaro, University of Palermo, Italy
14:30 - 14:45	Manufacture of Multicharged Cationic Surfactant-Capped Silver Nanoparticles: Experimental Design and Optimization S.J. Balicki, Ł. Lamch and K.A. Wilk	Dr. Sebastian Balicki, Wrocław University of Science and Technology, Poland
14:45 - 15:00	Targeted removal of Copper and Cobalt ions from contaminated systems: A case of functionalized SBA-15 M. Dulski, A. Strach, R. Zaleski, M. Gorgol, K. Pawlik ⁴ , P. Pawlik, M. Laskowska, A. Viskna, V. Grebnevs ⁶ , J. Jala and Ł. Laskowski	Dr. Mateusz Dulski, University of Silesia, Poland
15:00 - 15:15	Synthesis–Structure–Property Relationships in Barium-Based Perovskites T. Petkova, V. Ilcheva, V. Boev, V. Zhelev, O. Kostadinova	Prof. Tamara Petkova, Institute of electrochemistry and energy systems, Bulgaria
15:15 - 15:30	Ta-doped lead-free NaNbO ₃ -based materials for enhancing energy storage properties S. Nesa Soheli, Z. Lu, D. Sun and I. Shyha	Ms. Sairatun Nesa Soheli, Edinburgh Napier University, UK
15:30 - 15:45	Polymer nanocomposites for Elecromagnetic Interference (EMI) shielding R. Checchetto	Prof. Riccardo Checchetto, University of Trento, Italy
15:45 - 16:00	Low-Dimensional Self-Attracting Layer-By-Layer (SALBL) Thio- phenes, Silver and Copper Nano/Microworld in the Ever- Changing Sensing and Hydrogen Evolution Technological Advancement Environments	Dr. Olayemi J. Fakayode, University of South Africa, South Africa

	O.J. Fakayode , B. Manbuea, S. Sigonya and B.M. Mothudi	
16:00 - 16:30 Afternoon Coffee Break - Foyer		
Session Chairs: Prof. Herman Terryn, Vrije Universiteit Brussel, Belgium Prof. Arcady Zhukov, University of Basque Country, Spain		
16:30 - 16:45	Impact of doping strategy and oxygen injection times on the thermochromic behavior of Ta-doped VO2 films A. Casas-Acuña , A.J. Santos, N. Martin, J.J. Jiménez, M. Garzón, R. García and F.M. Morales	Ms. Andrea Casas Acuña , University of Cádiz, Spain .
16:45 - 17:00	Surface Modification of Lignin Particles by Ozone Treatment for Enhanced Dispersion Stability P. Gholami , C. Caponio, M.H. Lahtinen, A. E. Alexakis, C. Zimmer, KS Hildén, W. Reynolds, M.H. Sipponen and K.S. Mikkonen	Mr. Peyman Gholami , University of Helsinki, Finland
17:00 - 17:15	Alkaline Stable and Mechanically Robust Interpenetrating Polymer Network Type Anion Exchange Membrane for High-Performance Alkaline Electrolyzer V. Kulshrestha and S. Mishra	Mr. Sarthak Mishra , Central Salt and Marine Chemical Research Institute, India
17:15 - 17:30	Resistive Switching in Nanostructured C-TiO2 Film Fabricated via Aerosol Flame Reactor for Advanced Memory Applications A. Khalique , G. De Falco, P. Minutolo, M. Commodo and A. D'Anna	Mr. Abdul Khalique , University of Naples Federico II, Italy
17:30 - 17:45	A combined analytical and numerical approach for determining effective properties of Laminated Piezoelectric Composite Biomaterials C. Rodriguez-Cifuentes , J. Longo, H. Brito-Santana, R. Rodríguez-Ramos, V. Tita and R. De Medeiros	Mr. Camilo A.R. Cifuentes , Metropolitan University of Technology Santiago, Chile

Wed. 29 Oct. 2025

SMS 2025 / Sensors 2025 / EGF 2025- Session I. B:
Innovations in Sensing Principles, Materials, and Fabrication/ Graphene and 2D Materials

Conference Room MAIA

Session Chairs:

Prof. Riccarda Antiochia, Univ. of Rome "La Sapienza", Italy

Prof. Luisa Torsi, University of Bari, Italy

14:00 - 14:30	Carbon Gas Sensors - From Materials to Devices M. Penza	Prof. Michele Penza, ENEA, Italy
14:30 - 15:00	Synthesis and structure-properties relationship of novel 2D carbon-based materials: a joint theoretical and experimental study S. Achilli	Prof. Simona Achilli, University of Milan, Italy
15:00 - 15:15	On the mechanical stability of graphene in situ grown on Cu(111) C. Coupeau , A. Claudel, M. Drouet, A.C. Gomez Herrero, V. Bouchiat and J. Durinck	Prof. Christophe Coupeau, University of Poitiers, France
15:15 - 15:30	Chemical derivatization of Graphene-based nanomaterials: a surface Chemistry perspective F. Amato , D. Possenti, M. Daino, L. Giaccari, R. Marino, M. Lucianatelli, A. Motta, G. Olivo and A. G. Marrani	Dr. Francesco Amato, University "La Sapienza" Rome, Italy
15:30 - 15:45	Semiconducting Pt Structures Stabilized on 2D MoS ₂ Crystals Enable Ultrafast Hydrogen Evolution P. Vancsó , T. Ollár, P. Kun, A. A. Koós, G. Dobrik, E. V. Sukhanova, Z. I. Popov, M. Németh, K. Frey, B. Pécz, P. Nemes-Incze, C. Hwang, J. S. Pap and L. Tapasztó	Dr. Peter Vancso, HUN-REN Centre for Energy Research, Hungary
15:45 - 16:00	Additively Manufactured Smart Washer: Vertical Interdigitated Capacitive Sensor for Load Monitoring E. Basso , P. Cosseddu, C. Gotti, T.M. Brugo, M. Zauli, L. De Marchi, A. Zucchelli and F. Meoni	Mr. Enrico Basso, Univ. Bologna, Italy

16:00 - 16:30

Afternoon Coffee Break - Foyer

Session Chairs:

Prof. Ivan Parkin, University College London, UK

Prof. Elisa Michelini, University of Bologna, Italy

16:30 - 16:45	Combined up-converting luminescence from NaYGdF ₄ microrods co-doped with Yb ³⁺ , Er ³⁺ , and Ho ³⁺ ions for increasing IR detection A. Gonzalo , E. García-Tabarés, B. Serrano, E. Salas Colera, A. Parwez, J. E. Muñoz Santiuste and B. Galiana	Dr. Alicia Gonzalo Martín, University Carlos III Madrid, Spain
16:45 - 17:00	Integrated Actuator and Measurement System Based on Nitinol Fiber J. Kaniuka and T. Nabagło	Ms. Julia Kaniuka, AGH University of Krakow, Poland
17:00 - 17:15	Smart Braided Composite Rebars (BCR) for concrete reinforcement and Structural Health Monitoring (SHM) D. Dias , J. Sousa, G. Oliveira, J. Bessa, R. Figueiro, J. Fontes and A. Gomes	Mr. Duarte Dias, Fibrenamics, Portugal
17:15 - 17:30	Te-doped ZnO thin films obtained by spray pyrolysis P. Petkov , T. Petkova and P. Bancheva-Koleva	Prof. Plamen Petkov, University of Chemical Technology and Metallurgy, Bulgaria
17:30 - 17:45	Enhanced NH ₃ Sensing Performance using ZnO/SWCNT-COOH Heterostructure Gas Sensor E. Seo , H. Kim and K. Kim	Ms. Eunji Seo, Jeonbuk National University, Rep. of Korea
17:45 - 18:00	A Haptic Interface with the Integration of Actuating and Sensing based on PVC Gel AE-skin C. Tian and M. Yu	Mr. Chengbo Tian, Nanjing University of Aeronautics and Astronautics, China
18:00 - 18:15	All-optical Diffractive Deep Neural Networks using Photo-induced Liquid Crystal Devices W. Zhang , F. Yeung, M. Tseng and H. Kwok	Dr. Wanlong Zhang, Hong Kong University of Science and Technology, China

18:15 - 18:30	Sustainable revalorization of the residual biomass of <i>Rhodotorula glutinis</i> via green synthesis of carbon quantum dots for multifunctional applications C. Ramírez-Martínez, A. Maya-Morales, A. Salazar-Martínez, R. Peña-Rivera, A.L. Torres-Huerta and A. Ordaz	Ms. Carolina Ramírez Martínez, Monterrey Institute of Technology, Mexico
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Wed. 29 Oct. 2025		
SMS 2025 / NanoMed 2025 - Session I. C: Next Gen Nanomaterials and Biofabrication / Bioinspired / Biomimetic Bioactive Materials		
Conference Room LIBRA + TAURUS		
Session Chairs: Prof. Immacolata Belviso, Telematic University Pegaso, Italy Dr. Qixu Luke Zhang, University of Texas, USA		
14:00 - 14:30	Bioinspired calcium phosphate nanocrystal arrays with antibacterial and bone-regenerative functions M. Iafisco	Prof. Michele Iafisco, CNR, Institute of Science, Technology and Sustainability for Ceramics, Italy
14:30 - 15:00	Advanced Investigations of the Interface between Biomaterials and Biosystems in Orthopaedics M. Jenko, D. Dolinar, M. Debeljak, S. Tadel Kocjančič and B. Kocjančič	Prof. Monika Jenko, MD-RI Institute for Materials Research in Medicine Slovenia
15:00 - 15:15	Advanced Nanostructured Coatings for Wound Dressing with Improved Thermal Conductivity and Antimicrobial Properties M.Pollini, R. Striani, F. Paladini, A. Kiani, M.R. Acocella and C. Esposito Corcione	Prof. Carola Esposito Corcione, University of Salento, Italy
15:15 - 15:30	NanoGUMBOS: Tunable Organic Salt Nanomaterials for Biomedical Applications S. Hamdan and I.M. Warner	Dr. Suzana Hamdan, University of Cincinnati, USA
15:30 - 15:45	Electrospun poly(γ -benzyl-L-glutamate) nanofibrous membranes as scaffolds for RPE cell cultivation M. Souibgui,, Y. Nemesh, V. Cimrová, J. Hodan, V. Proks, Z. Ellederová and H. Studenovska	Dr. Mourad Souibgui, Institute of Macromolecular Chemistry, Czech Rep.
15:45 - 16:00	Oxidized ZrNb2.5alloy in Orthopaedics-Case study E. Kocjancic, M. Jenko, S. Tadel Kocjancic and B. Kocjancic	Dr. Bostjan Kocjancic, Center for Intensive Internal Medicine, Slovenia
16:00 - 16:30 Afternoon Coffee Break - Foyer		
Session Chairs: Prof. Michele Iafisco, CNR, Institute of Science, Technology and Sustainability for Ceramics, Italy Prof. Monika Jenko, MD-RI Institute for Materials Research in Medicine Slovenia		
16:30 - 16:45	Biocompatibility of CAD/CAM CoCr additive manufactured RME-Rapid Maxillary Expander M. Ovsenik, J. Oblak, M. Bitenc, M. Jenko and L. Kolenc	Prof. Maja Ovsenik, University of Ljubljana, Slovenia
16:45 - 17:00	Engineering soft tissue flap with nanofibrous vascular complexity for microsurgical reconstruction Q.L. Zhang and P. Yu	Dr. Qixu Luke Zhang, University of Texas, USA
17:00 - 17:15	Enhancing Transdermal Delivery of Natural Bioactive Compounds Using Enzyme-Modified Composite Hydrogels E. Diamanti, M. Zoumpantioti and V. Papadimitriou	Dr. Eleftheria Diamanti, National Hellenic Research Foundation, Greece
17:15 - 17:30	Decellularized Human Lung Matrix as a Smart Biomaterial for Modeling Stromal Remodeling in Breast Cancer I. Belviso, M.L. Motti, E. Del Genio, A. Mileo, A. Fiorelli, N. Giorgiano and R. Pastore	Prof. Immacolata Belviso, Telematic University Pegaso, Italy
17:30 - 17:45	Gallic Acid released from Layered Double Hydroxide-Coated HA/ β -TCP Scaffolds Suppresses Osteoclast Formation In Vitro C. Suvieri, M. Bastianini, S. Pagano, L. Marinucci, V. Ambrogio, M. T. Pallotta, M. Sisani and M. L. Belladonna	Dr. Chiara Suvieri, University of Perugia, Italy
17:45 - 18:00	Bioinspired hierarchical shark scale microstructures produced by a femtosecond laser in stainless steel D. Saz, N. Burger, G. Liedl, A. Otto and R. Fürbacher	Mr. Daniel Saz, TU Wien, Austria

Thu. 30 October 2025		
SMS 2025 / EGF 2025 / Sensors 2025 / NanoMed 2025 Joint Plenary Session II		
Conference Room PLEIADI		
Session Chairs: Prof. Ivan Parkin, University College London, UK Prof. Riccardo Checchetto, University of Trento, Italy		
08:30 - 09:00	Electronic properties of interfaces and molecular junctions involving ferromagnetic electrodes J. Cornil	Prof. Jérôme Cornil, University of Mons, Belgium
09:00 - 09:30	The versatility of tilted fiber Bragg grating sensing: principles and applications from battery monitoring to biosensing C. Caucheteur	Prof. Christophe Caucheteur, University of Mons, Belgium
09:30 - 10:00	Brain Cholesterol Matters: A 25-Year Journey Toward Nanomedicine-Based Therapies for Huntington's Disease E. Cattaneo	Prof. Elena Cattaneo, University of Milan & INGM, Italy
10:00 - 10:30	Smart Nanocoatings Against Pathogens: Insights from the EU Sister Projects NANOBLOC, NOVA & RELIANCE C. Balagna, M. Blanco and S. Espinoza	Prof. Cristina Balagna, Politecnico di Torino, Italy
10:30 - 11:00 Morning Coffee Break - Foyer		
EU projects Workshop: Next-Gen Nanocoatings: Accelerating Antimicrobial Innovation with Modelling & AI		
Session Chairs: Mrs. Ana Hristova, Europroject, Bulgaria		
Opening Session: Foundations & Future Directions		
11:00 - 11:10	Welcome & Opening Remarks	Mrs. Ana Hristova, Europroject, Bulgaria
Project Spotlights: Driving Antimicrobial Innovation		
11:10 - 11:25	RELIANCE Project: Smart Response Bio-based Nanocoatings for Healthier Environments A. Hristova	Mrs. Ana Hristova, Europroject, Bulgaria
11:25 - 11:40	NOVA Project: Novel Approaches to Antimicrobial Surface Design S. Espinoza	Dr. Sara Espinoza, DECHEMA, Germany
11:40 - 11:55	NANOBLOC Project: Antimicrobial Nanocoating for Real-World Protection C. Balagna	Prof. Cristina Balagna, Politecnico di Torino, Italy
Accelerating Antimicrobial Innovation with Modelling & AI		
Session Chairs: Dr. Sara Espinoza, DECHEMA, Germany		
12:00 - 12:30	Predictive Power: Modeling Antimicrobial Nanocoating Performance G. Leonis	Dr. Georgios Leonis, University of Patras, Greece
12:30 - 13:00	AI-Driven Discovery: Machine Learning for Novel Nanomaterials T. Soubrié	Mr. Thibaut Soubrié, PRESTE, France
12:00 - 14:00 Lunch Break – Restaurant		
Conference Room ELETTRA + ATLANTE		
14:00 - 14:30	Research Data Management (RDM) for Nanocoatings V. Kononenko	Prof. Veno Kononenko, Univ. of Ljubljana, Slovenia
Safety, Sustainability & Real-World Impact		
Session Chairs: Prof. Cristina Balagna, Politecnico di Torino, Italy		
14:30 - 15:00	Navigating the Nano-Landscape: Toxicology & Risk Assessment of Antimicrobial & Antiviral Nanocoatings E. Feyles	Dr. Elisa Feyles, University of Turin, Italy

15:00 - 15:30	Green Horizons: Ecotoxicity & Environmental Impact of Nanocoatings G. Ormazabal	Mr. Guillermo Ormazabal, Tekniker, Spain
Use Cases & Industrial Perspectives		
Session Chairs: Mrs. Ana Hristova, Europroject, Bulgaria		
15:30 - 16:00	Application of Antimicrobial Nanocoatings on Home Appliances S.Tarkuç	Dr. Simge Tarkuç, Arcelik, Turkey
16:00 - 16:30	Afternoon Coffee Break - Foyer	
16:30 - 17:00	Scaling Up & Commercialization Insights M. Milani	Mr. Marcelo Milani, MPG, Luxembourg
17:00 - 17:15	Concluding Remarks & Open Discussion S. Espinoza	Dr. Sara Espinoza, DECHEMA, Germany

Thu. 30 October 2025		
EGF 2025 / Sensors 2025 joint Session II. A: 2D Materials for Electronics, Energy, and Life Sciences		
Conference Room LIBRA + TAURUS		
Session Chairs: Prof. Alessandro Porchetta, Univ. of Rome Tor Vergata, Italy Prof. Olivier Soppera, Univ. Haute-Alsace, France		
10:30 - 11:00 Morning Coffee Break - Foyer		
11:00 - 11:30	Nanomaterials and Nanosensors for Cancer diagnostics L. Baraban	Prof. Larysa Baraban, Helmholtz Center Dresden Rossendorf, Germany
11:30 - 12:00	Printed sensors for health and environmental monitoring P. Lugli	Prof. Paolo Lugli, Free University of Bozen- Bolzano, Italy
12:00 - 12:45	Funding opportunities for researchers: European Research Council (ERC) info-session A.I. Carrillo Gomez	Dr. Adela I. Carrillo Gomez, European Research Council Executive Agency, Belgium
12:00 - 14:00 Lunch Break – Restaurant		
SMS 2025 / Sensors 2025 Focus Session II.B: Biosensors and Biosensing / Biomedical Sensors		
Session Chairs: Prof. Larysa Baraban, Helmholtz Center Dresden Rossendorf, Germany Prof Stefano Cinti, University of Naples "Federico II", Italy Prof. Fabiana Arduini, Univ of Rome Tor Vergata, Italy		
14:00 - 14:30	Wearable microneedles-based biosensors for continuous monitoring of biomarkers for personalized medicine C. Tortolini, M. Caprio and R. Antiochia	Prof. Riccarda Antiochia, University of Rome "La Sapienza", Italy
14:30 - 15:00	Bioinspired optical nanobiosensors for sustainable diagnostics and environmental monitoring. E. Michelini	Prof. Elisa Michelini, University of Bologna, Italy
15:00 - 15:30	CRISPR Systems Controlled by DNA Molecular Transducers for Protein Biosensing A. Porchetta	Prof. Alessandro Porchetta, Univ. of Rome Tor Vergata, Italy
15:30 - 15:45	Enhanced angular sensitivity of a 1D photonic crystal in liquid analytes sensing via integration of plasmonic and 2D materials M.Gryga, R. Kanok, J.Chylek, D. Ciprian, P.Hlubina	Dr. Michal Gryga, Technical University of Ostrava, Czech Rep.
15:45 - 16:00	A simple and stable nanofiber-based immunosensor for cortisol detection S. Baluta, K. Kolodzinska, L. Sznitko and J. Cabaj	Prof. Joanna Cabaj, Wroclaw University of Science and Technology, Poland
16:00 - 16:30 Afternoon Coffee Break - Foyer		
SMS 2025 / Sensors 2025 Focus Session II.C: Next-Gen Miniaturized Biosensors: Toward Smart, Scalable, and Portable Sensing Systems		
Session Chairs: Prof. Elisa Michelini, University of Bologna, Italy Prof. Paolo Lugli, Free University of Bozen-Bolzano, Italy		
16:30 - 17:00	Physiological Sensing in the Real World: Challenges and Opportunities for Smart Wearables C. Massaroni	Prof. Carlo Massaroni, Univ. Campus Bio-Medico di Roma, Italy
17:00 - 17:30	Molecularly Imprinted Polymers Meets Plasmonics: Light-Assisted Routes to Smart Sensors O. Soppera	Prof. Olivier Soppera, Univ. Haute-Alsace, France
17:30 - 17:45	Opto-Electrochemical Fiber-Optic Sensors for Next-Generation Bioanalysis M. Janik	Dr. Monika Janik, Warsaw University of Technology, Poland

Thu 30 Oct. 2025		
NanoMed 2025 Session II. D: Therapeutics, Regeneration & Oncology / Diagnostics and Imaging / Safety & Future Frontiers		
Conference Room MAIA		
Session Chairs: Prof. Michele Iafisco, CNR, Institute of Science, Technology and Sustainability for Ceramics, Italy Dr. Eleftheria Diamanti, National Hellenic Research Foundation, Greece		
14:00 - 14:30	Nanoparticles Under the Microscope: The Power of 3D Models S. Rocha	Prof. Susana Rocha, KU Leuven, Belgium
14:30 - 15:00	Eliminating Medical Device Infections With Nanotechnology: 30,000 Patients and Still Counting T. Webster	Prof. Thomas J. Webster, Hebei Univ. of Technology, China
15:00 - 15:15	Wireless Bone Stimulation via Coupled Magnetoelectric and Piezoelectric Nanoparticles: An In Silico Study I. Faricelli, M. Lenzuni, P. Giannoni, P. Ravazzani and A. Marrella	Ms. Ilaria Faricelli, CNR-Genoa, Italy
15:15 - 15:30	Surface topography and optical measurements as a tool for investigating drug delivery from nanostructured bioprinted materials A. de Nigris, G. Quero, G. P. Vanoli and L. Ambrosone	Dr. Antonio de Nigris, University of Molise, Italy
15:30 - 15:45	Nanogels for pulmonary drug delivery N. Politakos, P. Stamou, M. Matzapetakis and C. Chochos	Dr. Nikolaos Politakos, National Hellenic Research Foundation, Greece
15:45 - 16:00	Chitosan-tripolyphosphate-DNA Nanoparticles to Induce Transient Gene Therapy by Expressing an Exogenous Enzyme in Sparus aurata: Dietary Supplementation Versus Intraperitoneal Injection W. Duan, Y. Wu, A. Rashidpour and I. Metón	Ms. Wenwen Duan, Univ. Barcelona, Spain
16:00 - 16:30 Afternoon Coffee Break - Foyer		
Session Chairs: Prof. Susana Rocha, KU Leuven, Belgium Prof. K Jimmy Hsia, Nanyang Technological University, Singapore		
16:30 - 16:45	Synthesis and characterization of nuclear nano-theranostic formulation for metastatic ovarian cancer treatment P. Nayak, M. Varani, V. Bentivoglio, C. Lauri, G. Campagna and A. Signore	Dr. Pallavi Nayak, "Sapienza" University Rome, Italy
16:45 - 17:00	Functionalized nanomaterial based on tungsten disulfide (WS ₂) and gold nanoparticles (AuNPs) activated by radiation for cancer therapy G. Cenci, S. Pinelli, M. Santi, N. Rivi, M. Villani, M. Bormetti, E. Ferrari, V. Sinisi, P. Papadopoulou, F. Bonaccorso, F. Fabbri, F. Bigi, G. Salviati and F. Rossi	Mrs. Gloria Cenci, University of Parma, Italy
17:00 - 17:15	Non-Lamellar Lipid Nanoparticles as Innovative Vectors for RNA Delivery L. Conti, M. Rojas-Rodruigez, L. Caselli, M. Calamai, M. Marradi, D. Berti and C. Montis	Ms. Laura Conti, University of Florence, Italy
17:15 - 17:30	Nanoemulsion-Based Delivery of Verteporfin for Effective Photodynamic Cancer Treatment A.B. Davila Ibanez, V.L. Funes and R. López	Dr. Ana Belen Davila Ibanez. CIBERONC - Madridn Spain
17:30 - 17:45	Harnessing Mirror-Image Peptides: Nanoparticle Vectors for Nucleic Acid Delivery in Cancer Treatment A. Banfi, L. Salvioni, B. Petrucci, M. Colombo and D. Prosperi	Mr. Andrea Banfi, University of Milano-Bicocca, Italy
17:45 - 18:00	Targeting Cancer with Hyaluronic Acid-Coated Magnetic Nanoparticles: A Smart Drug Delivery Approach F. Oltolina, I. Andreana, E. Borroni, C. Jimenez-Lopez, S. Arpicco and A. Follenzi	Dr. Francesca Oltolina, Univ. del Piemonte Orientale, Italy
18:00 - 18:15	Biomimetic Magnetic Nanoparticles as Novel Strategy for Targeted Gene Therapy in TNBC	Dr. Annarita D'Urso, Univ. del Piemonte Orientale, Italy

	A. D'Urso , F. Oltolina, A. Cucci, E. Borroni, C. Mocchetti, C. Jiménez-Lopez and A. Follenzi	
18:15 - 18:30	Nanodiamond as a Biocompatible Factor Disrupting Angiogenesis in the Tumor Microenvironment. Studies on mouse endothelial cells B.Wójcik , K.Zawadzka and M.Wierzbicki	Dr. Barbara Wójcik , University of Life Sciences, Poland
18:30 - 18:45	Harnessing the supremacy of Platinum II Complex to Preferentially Hamper Colon cancer using Phytochemicals-Based Nanoparticles S. Ashraf Fahmy , N. Sedky, H.A.F.M. Hassan, E. Preis and U. Bakowsky	Dr. Sherif Ashraf Fahmy , University of Marburg, Germany

Fri. 31 Oct. 2025

**SMS 2025 / EGF 2025 Session III.A:
Applications for energy and environment**

Conference room LIBRA + TAURUS

Session Chairs:

Prof. Giuseppe Cavallaro, University of Palermo, Italy
Prof. Pontsho Mbule, University of South Africa, South Africa
Dr. Michele Curatolo, University of Calabria, Italy

08:30 - 09:00	Advances in Two-Dimensional Materials for Wearable Electronics and Environmental Monitoring H.T. Lam , E. Kovalska, M.H. Albuqami, L.S. Alrabie, A. Prowse, K.J. Risaanes, R. Mastria, I. Leontis, Z. Saadi, A. IS Neves, S. Russo and M. F Craciun	Prof. Monica Craciun , University of Exeter, UK
09:00 - 09:30	Strategies to address critical challenges in smart adhesives K.J. Hsia	Prof. K Jimmy Hsia , Nanyang Technological University, Singapore
09:30 - 09:45	Influence of Nanopores on the Mechanical Properties of Graphene for Desalination Applications: A Multiscale Approach M. Curatolo , G. Ciardullo, G. Mazzone, G. Salerno and E. Sicilia	Dr. Michele Curatolo , University of Calabria, Italy
09:45 - 10:00	3D hydrogel filters as colorimetric indicators of mercury and simultaneous wastewater remediation F. Norouzi , K. Dziza, A. Athanassiou and D. Fragouli	Ms. Fatemeh Norouzi , Italian Institute of Technology-Genova, Italy
10:00 - 10:30	Morning Coffee Break - Foyer	
10:30 - 10:45	Synthesis of Carbon Quantum Dots from T. versicolor extracts and their potential for aromatic compound degradation L. Gómez and A. Antonio	Mr. Leonardo Gómez , Monterrey Institute of Technology, Mexico
10:45 - 11:00	Innovative Leaching of NMC Using Spent LFP as Reducing Agent for Closed-Loop Cathode Precursor Recovery R; Milone , F; Pagnanelli, P; Altimari and P.G. Schiavi	Mr. Raimondo Milone , Sapienza University. Rome, Italy
11:00 - 11:15	Samarium-doped cobalt ferrite anchored on reduced graphene oxide nanocomposites with enhanced peroxymonosulphate photocatalytic degradation of Bisphenol A C. Donga and P. S. Mbule	Dr. Cabangani Donga , University of South Africa. South Africa
11:15 - 11:30	Water-Processable Polymer Nanoparticles as Alternative Photosensitisers for Visible-Light-Driven Efficient Cofactor Regeneration in Artificial Photosynthetic Hybrid Systems F. Villafiorita-Monteleone , A.M. Ferretti, A. Giacometti Schieron, F. Secundo and S. Zappia	Dr. Francesca Villafiorita-Monteleone , SCITEC- CNR, Italy
11:30 - 11:45	Photocatalytic degradation of tetracycline solution by sunlight active hybrid core shell nanoparticles L. Mancic , I. Dinic, M. Vukovic, M. Tomic, N. Tomic, B. Canabarro, P. Jardim, L. Almeida and B.A. Marinkovic	Dr. Lidija Mancic , Institute of Technical Sciences of SASA, Serbia
11:45 - 12:00	A Solid-Solution of BiOCl-Bi ₄ O ₅ Br ₂ Photocatalyst with Enhanced Photocatalytic Activity for As(III) Oxidation and Cr(VI) Reduction T. Luangwanta and S. Kaowphong	Mr. Tawanwit Luangwanta , Chiang Mai University, Thailand

Fri. 31 Oct. 2025		
Sensors 2025 Session III.B: Environmental Sensors/ Smart Sensor Networks/ AI Integration		
Conference room MAIA		
Session Chairs: Prof. Michele Penza, ENEA, Italy Prof. Olivier Soppera, Univ. Haute-Alsace, France		
09:00 - 09:30	Sensing in Organ-on-Chip: Bioinspired Strategies E. Martinelli	Prof. Eugenio Martinelli , Univ. of Rome Tor Vergata, Italy
09:30 - 09:45	Investigation of PZT Sensors Efficiency for Damage Detection and Structural Health Monitoring M. Dziendzikowski , K. Kowalczyk and Z. Dworakowski	Dr. Michal Dziendzikowski , Warsaw University of Technology, Poland
09:45 - 10:00	One-Step Laser-Assisted Fabrication of 3D Graphenized Architectures for Flexible and Sustainable Electrochemical Platforms A. Berni , J.J. García-Guzmán, L. Cubillana-Aguilera, A. Amine and J.M. Palacios-Santander	Mr. Achraf Berni , University of Cadiz, Spain
10:00 - 10:30	Morning Coffee Break - Foyer	
10:30 - 10:45	MOX Sensors Employed in the Detection of Olive Oil Quality and Adulteration M. Astolfi , M. Masin, S. Gherardi, G. Zonta, C. Malagù, P. Ortega and G. Rispoli	Dr. Michele Astolfi , University of Ferrara, Italy
10:45 - 11:00	Liquid-Crystals Sensors for real-time monitoring of airborne pesticides in spraying areas N. Razi , S. Peralta, P. Banet, A. Khaldi, L. Dupont and P.-H. Aubert	Ms. Nour Razi , Cergy Paris University, France
11:00 - 11:15	Fabrication of modified α -Fe ₂ O ₃ NPs on ZnO NRs/Ni-foam nanocomposite as electrode for electrochemical detection of arsenic in drinking water S. Ngok , R. Yann, C.O. Chey, X. Liu, M. Willander and O. Nur	Ms. Sreymean Ngok , Linköping University, Sweden
11:15 - 11:30	Guided Wave Analysis for Inspection of Finned Tubes in Heat Exchangers C-C. Yin and K-Y. Lin	Dr. Ching-Chung Yin , National Yang Ming Chiao Tung University, Taiwan

N.	Poster Title	Author, Affiliation, Country
1.	A Comprehensive Study of Carbon Hybrid Structure Behavior Produced by PECVD. L. S. Almeida, F. Fernandes, M. D. Manfrinato, B. C. Viana Neto and L. S. Rossino	Prof. Luciana Rossino , University of São Paulo, Brazil
2.	Coatable Photoaligned Azo-Dye Thin-Film Polarizer with Exceptional Dichroic Ratio. M. C. Tseng , Y. C. Cheng, Y. L. Ho, O. Vashchenko, V. Vashchenko, S. T. Tang, S. Y. Yeung, and H. S. Kwok	Prof. Man Chun Tseng , Hong Kong Univ. of Science and Technology, China
3.	Studies on the physicochemical properties of F-doped DLC coatings deposited on Ti-6Al-7Nb surface for biomedical applications. H. Janicki	Mr. Hubert Janicki , Lodz University of Technology, Poland
4.	Exploring Low-Emissivity Coatings Based on Wide Bandgap Materials: Experimental and Theoretical Approaches. R. Abubaker and M. F. Al-Kuhaili	Mrs. Reem Abubaker , King Fahd University of Petroleum and Minerals, Saudi Arabia
5.	Fabrication of Molybdenum Composite Powders with Uniformly Dispersed Copper via Chemical Routes. J.Y. Kim, Y. Kim, E. Seon Lee and S-T. Oh	Prof. Sung-Tag Oh , Seoul National University of Science and Technology, Rep. of Korea
6.	Stimulated luminescence properties of Si ⁴⁺ Co-doped MgTa ₂ O ₆ : 1 mol% Cr ³⁺ . D. V. Mlotswa , V. R. Orante-Barrón, D. Poelman, H. C. Swart, M. M. Duvenhage, R. Erasmus and L. L. Noto	Mr. Dumisani Mlotswa , University of the South Africa, South Africa
7.	Epoxy resins to metal adhesion testing under various surface preparation and accelerated aging conditions A. Kurnyta and K. Wrąbel	Dr. Artur Kurnyta , Air Force Institute of Technology, Warsaw, Poland
8.	Tribological performance of micro textured polymer surfaces fabricat-ed by micro injection moulding for medical devices I. Evangelista , M.D. Gilchrist, D. Wencel and N. Zhang	Mrs Isabela Evangelista , UCD, Ireland
9.	Metamaterial for Electromagnetic Wave Absorption. W-H. Jang , D. Shin, J. Park, K. Jin Jung and K. Lee	Dr. Woo-Hyeok Jang , Agency for Defense Development, Daejeon, Rep. of Korea
10.	New Double-headed Cationic Surfactants with Magneto-responsive Function as Magnetic Surface-Active Building Blocks for Functional Materials. K. A. Wilk , Ł. Lamch, M. Korabik, S.J. Balicki, D. Szarpak, E. Jarek, P. Szklarz and P. Warszyński	Prof. Kazimiera A. Wilk , Wrocław University of Science and Technology, Poland
11.	Quantum-mechanical study of holey graphene surface models for the development of appropriate force fields to simulate water desalination. G. Ciardullo , M. Curatolo, S. Koudjina, S. Scoditti, G. Mazzone, G. Salerno and E. Sicilia	Dr. Giada Ciardullo , University of Calabria, Italy
12.	Three-dimensional heterostructures of graphene–anatase nanowires and their photocatalytic performances under visible light irradiation. L. Monica Veca , A.I. Istrate, I. Mihalache, C.A. Banciu, E.M. Mihai, G. Craciun, O. Brancoveanu, C. Romanitan and F. Comanescu	Dr Lucia Monica Veca , IMT Bucharest, Romania
13.	High-Temperature Graphene Hall Probes. L. Supalová, M. Bartošík , V. Švarc, J. Mach 1,2, J. Piastek, O. Špaček, M. Konečný and T. Šíkola	Dr. Miroslav Bartošík , Brno University of Technology, Czech Rep.
14.	Magnetic properties and applications of glass-coated ferromagnetic microwires. V. Zhukova , P. Corte-León, J. M. Blanco and A. Zhukov	Dr. Valentina Zhukova , University of Basque Country, Spain
15.	Solution-Processable Hydrophobic Composite for Pressure Sensing on Metal Oxide TFTs. M. Yang, R.S. Chen , M. C. Tseng, F. S. Y. Yeung and H. S. Kwok	Dr. Rongsheng Chen , Hong Kong University of Science and Technology, China
16.	Synthesis of Pd-Au(alloy)@NiO Core-Shell Nanoparticles and LSPR Effect Based H ₂ Gas Sensing Mechanism. D-S. Kim and Y-T. Yu	Mr. Dong-Seog Kim , Jeonbuk National University, Rep. of Korea

17.	Reduction of Acoustic Pressure Variation of a Megasonic Transducer Using Meta Structure in Semiconductor Wafer Cleaning Unit. Y. Lee , J. Kim and N. Kim	Mr. Yuhyun Lee , Korea University of Technology and Education, Rep. of Korea
18.	NanoBloc: Multifunctional Composite Coatings for Antimicrobial and Antiviral Activity. A. Luceri , S. Perero, M. Donalisio, D. Lembo, M. Ferraris and C. Balagna	Dr. Angelica Luceri , Politecnico di Torino, Italy
19.	Innovative approaches to antimicrobial functionalization of filtration materials F. Gattucci , M. Miola and C. Balagna	Ms. Francesca Gattucci , Politecnico di Torino, Italy
20.	Antiviral and Antimicrobial Broad-spectrum Activity of Nanocoatings D. Porporato , E. Feyles, I. Arduino, A. Civra, C. Balagna, M. Ferraris, A.R. Boccaccini, Z. Hadzhieva, B. Coto, M. Donalisio and D. Lembo	Dr. Domiziana Porporato , University of Turin, Italy
21.	Development of Surface-Modified Silicon Nanoparticles for Enhanced Antibody Immobilization in ELISA-Based Diagnostics. M. Endra Swe and K. Sato	Ms. Myat Endra Swe , Tokyo Denki University, Japan
22.	ND potential as antitumoral ECM component in the tumor microenvironment model. K. Zawadzka , B. Wójcik, M. Wierzbicki and S. Jaworski	Ms. Katarzyna Zawadzka , Warsaw University of Life Sciences, Poland
23.	The influence of hedgehog (Hh) signalling in modulating the radiosensitivity of Glioblastoma tumour models. B. Alkhalidi , H. McCarthy and J. Coulter	Mrs. Bayan Alkhalidi , Queen's University Belfast, UK
24.	Green-Synthesized Gold Hydrogels: A Dual-Action Platform for Photothermal and Chemotherapeutic Cancer Therapy. M. Rubio-Camacho , A. Balah-Tahiri, R. Martínez-Baquero, R. Esquembre, M. J. Martínez-Tomé and C.R. Mateo	Mrs. Marta Rubio Camacho , Miguel Hernández University, Spain
25.	Innovative Approaches to Emergency Epilepsy Treatment: A Comprehensive Study of Diazepam PLGA Nanoparticles and Lavender Oil Niosomes, Including In Vitro and In Vivo Testing, Optimization, and Characterization of Super-Fast-Dissolving Tablets. A. Adel , I. El-Sherbiny, N. El-Haddad, S. Islam, S. Imam and A. Esam	Ms. Aya Adel , Zewail City of Science and Technology, Egypt
26.	Physicochemical Profiling of Surface Heterogeneity in PEGylated Liposomes. S. L. Appleton , G. Bucher, F. Fumagalli, J. Ponti and D. Mehn	Ms. Silvia Lucia Appleton , European Commission, Joint Research Centre -Ispra, Italy
27.	Effect of Fullerenol C60 Nanofilm in the Pre-metastatic Niche Hepato-cellular Carcinoma with Hypoxia and High Level of Growth Factors. M. Sosnowska and M. Kutwin	Dr. Malwina Sosnowska , Warsaw University of Life Sciences, Poland
28.	Combinatorial Therapeutic Efficacy of Chitosan Nanoparticles Encapsulating 5-Fluorouracil and Santalum Album Essential Oil Against Negative Breast Cancer (TNBC) Cell Line. S. T. Mansour , R. R. Haikal, and W. Mamdouh	Ms. Somaia Tawfik , American University in Cairo, Egypt
29.	Apigenin-Functionalized Gold Nanoparticles for Optimized Targeted Drug Delivery in Hepatocellular Carcinoma. M. Almanea, A. Hussain, S. Imam, R. Alzahrani, S. Bukhari and W. Mahdi	Dr. Wael Mahdi , King Saud University, Saudi Arabia
30.	Hybrid Hyaluronic-Nanostructured Lipid Carriers Loaded with Centella asiatica with Improved Bioactivity Profile. I. Lacatusu, M. Neagu, G. Alexandru, M. Prisacari, M. Bacalum and N. Badea	Prof. Badea Nicoleta , National Univ. of Science & Tech. Polytechnic of Bucharest, Romania
31.	Diamond nanoparticles induce toxicity in endothelial cells through eNOS uncoupling – a study in static and dynamic culture. M. Wierzbicki , K. Zawadzka, B. Wójcik, M. Kutwin, M. Sosnowska, A. Ostrowska and S. Jaworski	Prof. Mateusz Wierzbicki , Warsaw University of Life Sciences, Poland
32.	Morphological Alterations in Endothelial Cells Following Exposure to Diamond Nanoparticles: Insights from Scanning Electron Microscopy. M. Kutwin , B. Wójcik, K. Zawadzka and M. Wierzbicki	Dr. Marta Kutwin , Warsaw University of Life Sciences, Poland
33.	Effect of zinc oxide nanoparticles on the number and biodiversity of plant growth promoting bacteria. S. Jaworski , A. Lange and M. Motrenko	Prof. Sławomir Jaworski , Warsaw University of Life Sciences, Poland
34.	Two-component nanocomposite disrupting biofilm formation of Staphylococci bacteria. A. Lange and S. Jaworski	Ms. Agata Lange , Warsaw University of Life Sciences, Poland
35.	P,N-doped Carbon Quantum Dots as Antagonistic Platforms for Fluorimetric Determination of PFOA. R. Coufal , Š. Kunc, P. Mikeš and M. Fijalkowski	Dr. Radek Coufal , Technical University of Liberec, Czech Rep.

36.	Photothermal Modulation of Laccase Activity in Sol-Gel Entrapped Hybrid Systems. A. Balah Tahiri , R. Martínez-Baquero, M. Rubio Camacho, C. Reyes Mateo, R. Esquembre and M. José Martínez-Tomé	Mr. Ahmed Balah Tahiri , Miguel Hernández University, Spain
37.	In-situ Fabrication of Multimodal Electronic Skin for Intelligent Robotics and Interactive Systems. H. Lim , J. Choi and J. Ahn	Mr. Hakhyun Lim , Korea University, Rep. of Korea
38.	ITO modification on optical fiber sensor: the influence of electrochemistry and biofunctionalization. J. Sikora , N. Kwietniewski, M. Śmietana and M. Janik	Mr. Jakub Sikora , Warsaw University of Technology, Poland
39.	Differential Detection of AMR-Associated Enzymes Using CTSM Acoustic Resonators. E. Ramírez-Sánchez , A. Juste-Dolz, Y. Moreno and R. Fernández	Ms. Elena Ramírez-Sánchez , Univ. Politechnic Valencia, Spain
40.	Development of a new 3D-printed electrochemical platform for biosensor applications. G. Istamboulie and T. Noguer	Dr. Georges Istamboulie , Univ. Perpignan France .
41.	Dual electrochemical immunosensor for fluoroquinolone detection in meat based on an electroactive derivative of difloxacin. G. Catanante , M. Gaillard, C. Aymard, T. Noguer & G. Istamboulie	Dr. Gaelle Catanante , Univ. Perpignan France
42.	Development and Application of a Potentiostat System for Real-Time Nitrate Monitoring in Algae-Based Aquaculture. A. P. Silva , Y.R.Cruz, M. Werneck, R. Célia, S. B. Allil and C. Leal	Mr. Andre P. Silva , Univ. of Rio de Janeiro, Brazil
43.	Coupled Thickness Shear Mode Sensors: Redefining the Transduction Paradigm in QCM Technology. A. Juste-Dolz , R. Fernández, M. Calero, Y. Jiménez and A. Arnau	Dr. Augusto Juste-Dolz , Univ. Polytechnic Valencia, Spain
44.	Coupled Thickness Shear Mode Resonators for Biodetection. F.L. Moncada , M.I. Rocha-Gaso, A. Juste-Dolz , Y. Jiménez, Y. Moreno, A. Arnau and R. Fernández	Dr. Augusto Juste-Dolz , Univ. Polytechnic Valencia, Spain
45.	Lightweight Unsupervised Analysis of Face Emotional Expressions from Visual Sensors. E. Oldrini, G. Rosasco, G. Volta and R. Zunino	Dr. Giorgio Volta , University of Genova, Italy
46.	Carrageenan-Engineered Iron Oxide Magnetic Nanoparticles: For Potentially Sensitive Electrochemical Determination of Antibiotic Residues J. Radić , L. Furman, M. Simonić, S. Gyergyek, L. Fras Zemljič, A. Vesel and O. Plohl	Dr. Josip Radić , University of Split, Croatia
47.	Catalytic activity of high-entropy spinel oxides with different entropy. Ts. Lazarova , D. Kichukova, K. Tumbalova, C. Rosmini and G. Theochari	Dr. Tsvetomila Lazarova-Kyuleva , Institute of General and Inorganic Chemistry, Bulgaria
48.	UV-Assisted Degradation of Anionic Azo Dye Using the Interplay of TiO ₂ Polymorphs and Graphitic Carbon. M. Mihai , L. Monica Veca, M. Stoian, C. Romanitan, I. Mihalache, F. Nastase, O. Simionescu, A. Matei, O. Brincoveanu, O. Ligor and A. Bragaru	Dr. Madalina Mihai , IMT Bucharest, Romania
49.	A Novel Zinc-Based MOF Featuring 2,4,6-Tris-(4-carboxyphenoxy)-1,3,5-triazine: Structure, Adsorption, and Photocatalytic Activity. M. Angelova , R. Rusew, H. Lazarova, V. Kurteva, R. Nikolova and B. Shivachev	Mrs. Magdalena Angelova , Institute of Mineralogy and Crystallography "Acad. Ivan Kostov", Bulgaria
50.	Miniemulsion-based aqueous polymer nanoparticles for sustainable organic solar cells. S. Zappia , F. Villafiorita-Monteleone, A. Maria Ferretti, V. Ragona, N. Camaioni, G. Calandra Sebastianella and F. Tinti	Dr. Stefania Zappia , SCITEC-CNR, Italy
51.	Heat-treatment Effect on Photoelectrochemical Hydrogen Evolution of PdRhO _x /N-CeO ₂ Nanocomposite as a Photocathode. G-J. Oh , D-S. Kim and Y-T. Yu	Mr. Geun-Jae Oh , Jeonbuk National University, Rep. of Korea
52.	Activated carbon derived from eggshell membrane for application in photovoltaic energy conversion devices. E. T. Molekoa and P. Mbule	Prof. Pontsho Mbule , University of South Africa, South Africa

Oral Presentation and Poster terms

For the Oral Presentation:

Duration of each talk type (including 2 to 3 minutes for Questions/Answers):

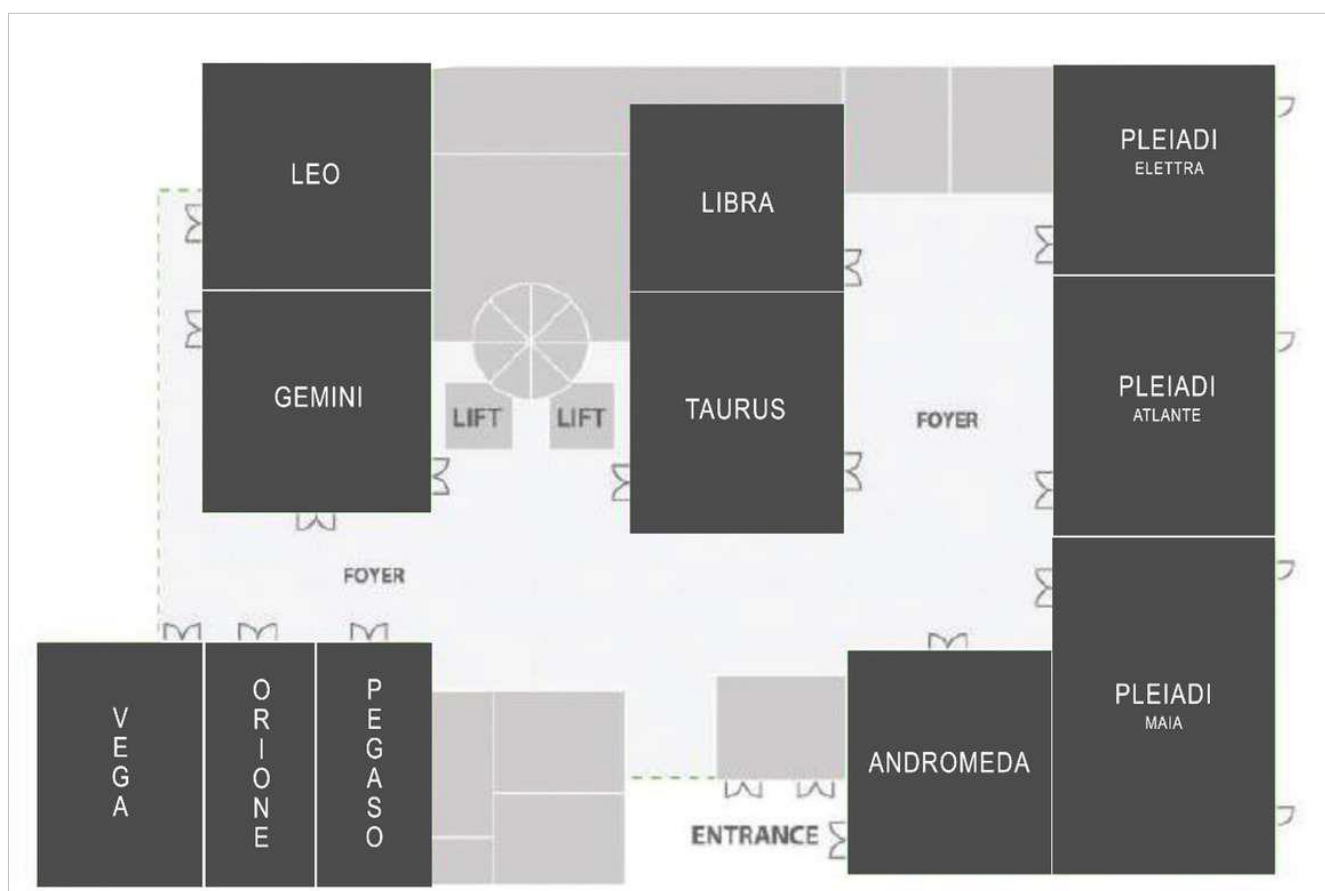
- Keynote talk: 30 minutes. Oral presentation: 15 minutes.
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Conference Venue Floorplan

The conference will be held at the [Courtyard by Marriott Rome Central Park hotel](#). Below is the venue floorplan.





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