

2nd INTERNATIONAL
**CHEMISTRY
CONFERENCE**



JUNE 26-28, 2023, CEST

SUPPORTING ORGANIZATIONS



Platform: ZOOM WEBINAR

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International Chemistry Conference

June 26-28, 2023



Conference Chair: Prof. Geoffrey Robert Mitchell, Vice-Director, CDRSP, Portugal

Co-Chair: Juan Carlos Del-Valle-Lazaro, Autonomous University of Madrid, Spain

Conference time GMT+2, Spain	Presenters Local Time	Presentation Details
Day-1 June 26, 2023		
08:50-08:55		Welcome & Introductory Comments by Team Elanova
08:55-09:00		Welcome & Introductory Comments by Chemeet Conference Chair
Plenary Presentations		
Session Chair		Prof. Geoffrey Robert Mitchell, CDRSP, Portugal
09:00-09:30	17:00-17:30	Title: Nano integrating Catalytic Components for Photo reforming of Organics Zongyou Yin , Australian National University, Australia
09:30-10:00	15:30-16:00	Title: How to Solve Unavoidable Self-Combustion Problem of Electric Vehicles Yuping Wu , Nanjing Tech University, China
10:00-10:30	17:00-17:30	Title: Identification and Detailed Characterization of Solid Materials through Electron Trap-distribution Analysis Bunsho Ohtani , Hokkaido University, Japan
10:30-10:40		Coffee Break
10:40-11:10	09:40-10:10	Title: Liquid Crystals Elastomers Geoffrey Robert Mitchell , CDRSP, Portugal
11:10-11:40	11:10-11:40	Title: Advances in Kinetics Processes of Halide Perovskite Solar Cells by Neuron-Style Nonlinear Model Equations and Electrooptical Techniques Juan Bisquert , Universitat Jaume I, Spain
11:40-12:10	10:40-11:10	Title: Direct Digital Manufacturing Systems: From Waste to Tailored Made Products Artur Jorge dos Santos Mateus , CDRSP, Portugal
12:10-12:40	15:40-16:10	Title: Rise of Polybenzoxazines: Conventional to Innovative Applications Bimlesh Lochab , Shiv Nader University, India
12:40-13:10		Lunch

13:10-13:40	12:10-12:40	Title: The Role of Seaweeds In The Future Food Packaging Systems: Development Of Algal Polysaccharide Films Hardened With Processed Stone Sludge Maria Manuel Gil, MARE - IPLeiria
13:40-14:10	07:40-08:10	Title: Carbon Monoxide as A Therapeutic Agent: Tasks, Challenges and Prospects Binghe Wang, Georgia State University, USA
14:10-14:40	08:10-08:40	Title: The Design and Development of Isoform-Selective Inhibitors of Hsp90 Brian S. J. Blagg, University of Notre Dame, USA
14:40-15:10	08:40-09:10	Title: Porosity in Catalytic and Ceramic Materials Steven Suib, University of Connecticut, USA
15:10-15:40	09:10-09:40	Title: Battery Characterization Using X-ray Microscopy. Jigang Zhou, Canadian Light Source, Canada
15:40-16:10	06:40-07:10	Title: Acid Degradable Lipid Nanoparticles Enhance the Delivery of mRNA Niren Murthy, University of California, USA

16:10-16:30

Coffee Break

Keynote Presentations

Session Chair **Prof. Geoffrey Robert Mitchell, CDRSP, Portugal**

16:30-16:55	20:00-20:25	Title: Pervaporation Membranes: Solving the Trade-off Phenomenon Mahadevappa Kariduraganavar, Karnatak University, India
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Chemeet Session-1 Green Chemistry

16:55-17:15	16:55-17:15	Title: Analysis, Development and Scaling-up of Olive Fiber-based Biocomposites Production for Industrial Applications in the Life-Comp0Live Project Juan Pablo Ferrer, Fundacion Andaltec I+D+i, Spain
17:15-17:35	16:15-16:35	Title: Discovering Morphology Mapping with Operando Small-angle X-ray Scattering 3D printing at ALBA Daniel Pedrosa da Silva, CDRSP, Portugal
17:35-17:55	16:35-16:55	Title: Design and Engendering of Natural Cellulose Fibres – based Printed Circuit Board Biomaterial to Improve Life Cycle Assessment João Carlos Velosa Pereira, CDRSP, Portugal
17:55-18:15	09:55-10:15	Title: Novel Polymer Composites using Sargassum as Bioadditive Jose Luis Rivera Armenta, ITCM, Mexico

Day-2| June 27, 2023

Chemeet Session-2 Materials Chemistry

Session Chair **Andrada Serafim, University Politehnica of Bucharest, Romania**

09:00-09:20	08:00-08:20	Title: Green Copolymers and Nanocomposites from Myrcene and Limonene Using Algerian Nano-Clay as Nano-Reinforcing Filler Hodhaifa Derdar, CRAPC, Algeria
09:20-09:40	09:20-09:40	Title: A New POM-based Water Splitting Catalyst Material Maria Gimenez Lopez, Universidad de Santiago de Compostela, Spain
09:40-10:00	09:40-10:00	Title: Smart Nanostructured Biomaterials Activated by Near-Infrared Light Filippo Pierini, Institute of Fundamental Technological Research, Poland

10:00-10:20	10:00-10:20	Title: Solar-driven Membrane Crystallization for a Sustainable Seawater Mining Sergio Santoro , University of Calabria, Italy
10:20-10:40	10:20-10:40	Title: Common Phenomenology on the Aggregation of Beta-Cyclodextrines in MOF's Formation and The Aggregation of Essential Oils with Surfactants Manuel J Lis , Polytechnic University of Catalonia, Spain
10:40-11:00		Coffee Break
11:00-11:20	11:00-11:20	Title: New Lignin-Based Thickeners by Microwave-Assisted Acetylation Antonio María Borrero López , University of Huelva, Spain
11:20-11:40	11:20-11:40	Title: Exploring processes in liquids on the atomic scale with nanofluidic electron microscopy Kristian S.Molhave , Technical University of Denmark, Denmark
11:40-12:00	15:10-15:30	ECR: Reaping the Benefit of Two Generations in Benzoxazines: Greener Adhesives with Inherent Latent Catalyst Effect Vaishaly Duhan , Shiv Nader University, India
12:00-12:20	12:00-12:20	ECR: Study of Self-assembly Behaviour of B- Cyclodextrin & its Functionalized Derivatives Siddanth Saxena , Polytechnic University of Catalonia, Spain
12:20-13:30		Poster presentations
Poster Judge		Prof. Geoffrey Robert Mitchell, CDRSP, Portugal
12:20-12:27	13:20-13:27	P1- Organotellurides as Generators of Free Radicals. Study by Electronic Spin Resonance Spectroscopy Narcisa Marangoci , ICMPP, Romania
12:27-12:34	12:27-12:34	P2: Study of the Spin Coating Parameters for the Fabrication of Graphene based Transparent Conductive Electrodes Maria Isabel Rodriguez Tapiador , CIEMAT, Spain
12:34-12:41	12:34-12:41	P3- Polymer Foams Containing Guest Phases (Guefoams): Fabrication and proof-ofconcept for Bacteria Water Filtration Maroua Guidoum , University of Alicante, Spain
12:41-12:48	13:41-13:48	P4- Design and Development of Novel Aminoglycoside Antibiotics to Combat Multidrug-Resistant Infectious Diseases Dmitrijs Lubriks , Latvian Institute of Organic Synthesis, Latvia
12:48-12:55	12:48-12:55	P5- Hydrogermylation of styrenes initiated by trialkylborohydrides a quantum-chemical study of the mechanism Mateusz Nowicki , Adam Mickiewicz University in Poznań, Poland
12:55-13:02	12:55-13:02	P6- Obtaining Microcapsules with Double Core Fragrances and Antimicrobial Character Hendrick Lezeck , Polytechnic University of Catalonia, Spain
13:02-13:09	12:02-12:09	P7- SAXS/WAXS studies of the Biaxial Deformation of Natural Rubber João Matias , CDRSP, Portugal
13:09-13:16	12:09-12:16	P8- Novel Biobased Composites Based on Polybutylene Succinate with Nano-size Carbonaceous Fillers Anabela Paiva Massano , CDRSP, Portugal
13:16-13:23	07:16-07:23	P9- Partial oxidation of Methane to Methanol on Boron Nitride at Near Critical Acetonitrile Jayasuriya Perera , University of Connecticut, USA

13:23-13:30	07:23-07:30	P10- Surface Tension of Esters from Peng-Robinson Equation of State Ariel Hernández , Universidad de Extremadura, Chile
13:30-14:00		Lunch
Chemeet Session-2 Organic, Inorganic and Electro Chemistry		
Session Chair		Juan Carlos del Valle Lázaro, The Autonomous University of Madrid, Spain
14:00-14:20	20:00-20:20	Title: Dynamic Disulfide Chemistry in Polymers and Crystals Qi Zhang , East China University of Science and Technology, China
14:20-14:40	20:20-20:40	ECR: The modified separators to suppress shuttle effect in Li-S batteries Shuang Xia , Nanjing Tech University, China
14:40-15:00	14:40-15:00	Title: The Fate of Gold from a Macro Layer to Nano-Sized Particles Inside and on the Surface of Silica Aerogels. The Effect of Temperature on the Catalytic Activity. Istvan Lazar , University of Debrecen, Hungary
15:00-15:20	15:00-15:20	Title: Solvatochromism of Cyrene, a Reappraisal Juan Carlos del Valle Lázaro , The Autonomous University of Madrid, Spain
15:20-15:40	15:20-15:40	ECR: Application of LEDs and low-pressure mercury vapor lamps in UV/Chlorine process for the removal of trimethoprim antibiotic Luca Farkas , University of Szeged, Hungary
15:40-16:00	14:40-15:00	ECR: Magnetically - Triggered Protein Release Using Iron Oxide Core - PNIPMAM Shell Nanoparticles Rajat Sharma , University of York, United Kingdom
16:00-16:20		Coffee Break
16:20-16:40	11:20-11:40	Title: Thermal and catalytic degradation of atmospheric residue of petroleum using hybrid HY/MCM-41 micro-mesoporous material Antonio Araujo , UFRN, Brazil
16:40-17:00	08:40-09:00	Title: Programmable functional nucleic acid-based electrochemical biosensors. Richa Pandey , University of Calgary, Canada
17:00-17:20	16:00-16:20	Title: Triazole Based Polyesteramides as Candidates for Novel Multifunctional Materials Matteos Arioli , CDRSP, Portugal
17:20-17:40	09:20-09:40	Title: Functional Nucleic Acid Integrated Biosensors for Point-of-Care Applications Mohammad Janghorban , University of Calgary, Canada
17:40-18:00	16:40-17:00	Title: Metal Alginates for Flavonoid Release Systems Ricardo José Lucas Lagoa , CDRSP, Portugal
Day-3, June 28, 2023		
Chemeet Session-5 Medicinal Chemistry		
Session Chair		Mariana Pinteala , ICMPP, Romania
09:00-09:25	10:00-10:25	Title: Gold Nanoparticles as Non-viral Vectors for Gene Therapy Mariana Pinteala , ICMPP, Romania
09:25-09:50	10:25-10:50	Title: Biological Markers of Neurodegeneration Tatiana Korolenko , Research Institute of Physiology and Fundamental Medicine, Russian Federation

09:50-10:15	09:50-10:15	Title: Insights into the Structure-activity Relationship of Antitumor Polyarsenicals Related to the Marine Sponge Derived Arsenicin A Ines Mancini , University of Trento, Italy
10:15-10:40	11:15-11:40	Title: Chrysin in Calixarene 0118 (OTX008) and Sulfobutylether- β -cyclodextrin (SBE β CD) Nanoformulation Alleviate Fibrosis Associated with Chronic Diabetes Anca Hermenean , Vasile Goldis Western University of Arad, Romania
10:40-10:55		Break
10:55-11:20	11:55-12:20	Title: Mucin-based Scaffolds with Tailorable Properties, Designed for Biomedical Applications Andrada Serafim , University Politehnica of Bucharest, Romania
11:20-11:40	11:20-11:40	Title: Conformationally Restricted (–)-Muricatacin Analogues: Synthesis, Antiproliferative Activity and SAR Analysis Bojana Srećo Zelenović , University of Novi Sad, Serbia
11:40-12:00	10:40-11:00	Title: Study of Small Molecules Targeting HPV E6 Protein: A Computational and Experimental Perspective Diana Gomes , University of Beira Interior, Portugal
12:00-12:20	13:00-13:20	Title: Magnetic Nanoparticles as Carriers for Antibiotics and Antioxidants that Interact Synergistically Adrian Fifere , ICMPP, Romania
12:20-12:40	13:20-13:40	Title: Enhanced Bone Surface Reconstruction Using Thin Melt Electro written Reinforced Scaffolds Carmen Nicolae , University Politehnica of Bucharest, Romania
12:40-13:10		Lunch
Chemeet Session-5 Physical, Molecular and Analytical Chemistry		
Session Chair		Maria Vasilopoulou , Institute of Nanoscience and Nanotechnology, Greece
13:10-13:30	13:10-13:30	Title: Quantum Dot-in Perovskite Near Infrared Light Emitting Diodes Maria vasilopoulou , Institute of Nanoscience and Nanotechnology, Greece
13:30-13:50	17:30-17:50	Title: Cost-effective Electrodes for Photovoltaic Applications Mannix Balanay , Nazarbayev University, Kazakhstan
13:50-14:10	13:50-14:10	Title: Three-dimensional macromolecular orientation in PCL spherulite sample based on FT-IR, O-PTIR and Raman spectroscopies Paulina Koziol , Jagiellonian University in Krakow, Poland
14:10-14:30	14:10-14:30	Title: Computer Simulation of Interfacial Properties of Polimeric Materials Giuseppe pellicane , Universita Degli Studi Di Messina, Italy
14:30-14:50	14:30-14:50	Title: Rice Syrup-Adulterated Honey Detection by FTIR-ATR with a Rapid, Reliable, Chemometric-less and Easy-to-Perform Method Approach Jafet Cárdenas Escudero , Complutense University of Madrid, Spain
14:50-15:10	13:50-14:10	ECR: Arginine and Tyrosine as Affinity Ligands Applied on 3D-printed Chromatographic Structures Joana Valente , CDRSP, Portugal
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