UNICA
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NG 26 CHEM

Società Chimica Italiana
Sezione Sardegna

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Conference Programme

NGC26
La Parola ai Giovani
18th edition

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#NGC26

A meet up opportunity for young researchers and master students in any field of chemistry

The Organizing Committee

Antonio Lupia and Rosita Cappai – Coordinators

Luciano Atzori, Deborah Biggio, Cristina Carucci
Mattia Casula, Luca Casula, Costantino Cau
Roberta Ibba, Davide Moi, Mariangela Oggianu,
Fausto Secci, Giacomo Senzacqua

The Scientific Committee

Francesco Secci
President SCI – Sez. Sardegna

Claudia Caltagirone, Andrea Deiana
Ilaria Langasco, Fabrizio Murgia, Giorgia Sarais

Day 1
22nd Oct

07:45 **Registration**

Session I

08:45 **Opening Ceremony**

Opening Remarks by the NGC26 Coordinators,
the President of the Sardinia Section of the Italian Chemical Society (SCI),
the NGC26 scientific committee board, and distinguished guests

09:30 **OC1 - Bruna Canu** *(University of Pau & Pays Adour)*
Surface Analysis of Modified Separators To Improve Performances of Lithium-Ion Batteries

09:45 **OC2 - Simone Murgia** *(University of Cagliari)*
Innovative Organophosphorus and Oxamate Derivatives for Carbonate Stone Conservation: From Molecular Design to Conservation Perspectives

10:00 **OC3 - Seyedeh Shaghayegh Alavi** *(University of Cagliari)*
Milk-Derived Extracellular Vesicles as Natural Nanocarriers for Oral Delivery of Phenolic Compounds

10:15 **OC4 - Marta Siddi** *(University of Cagliari)*
Recovery of Rare Earth Elements by Chitosan: Influence of Molecular Weight on REEs Removal

10:30 **OC5 - Rosangela Mastrangelo** *(University of Cagliari)*
Formulating Gluten-Free "pani carasau": Hydration of Starch Mixtures Under Controlled Conditions

Session II

Coffee break & Poster Session

11:30 **SP1 - Martina Piga** *(ALKELUX)*
How Agricultural Waste Becomes Sustainable Innovation: The Journey from Lab to Industry

11:45 **OC6 - Francesca Perra** *(University of Cagliari)*
Precursor Counter-Ion Role in Magnetic Feroxyhyte Nanoflakes for Enhanced Arsenic Removal

12:00 **OC7 - Enrico Podda** *(University of Cagliari)*
Toward High-Performance Single-Crystal Optical Waveguides: Luminescent Coordination Polymers as Tunable Platforms

12:15 **OC8 - Alessia Onali** *(University of Cagliari)*
Targeting Carbonic Anhydrase IX to Overcome Hypoxia-Driven Resistance in Glioblastoma

12:30 **OC9 - Sonia Lorrai** *(University of Cagliari)*
Nutraceutical Characterization of Sardinian Fabaceae Cultivars: Antioxidant Activity, Enzyme Inhibition and Assessment of Antinutritional Factors

Session III

Lunch & Poster Session

Group Photo

14:30 **SP2 - Giorgio Costante** *(FKV MEDINLAB)*
Non-standard ICP-MS analysis: the latest analytical applications for current research topics

14:45 **OC10 - Cristiana Cabriolu** *(University of Cagliari)*
Mechanochemical Synthesis of Iron(III) Trimesate MOFs: From Neat Grinding to Functional Materials for Advanced Applications

15:00 **OC11 - Salvatore Nieddu** *(University of Sassari)*
Comprehensive Design and Characterization of Deep Eutectic Solvents for Sustainable Analytical Applications

15:15 **OC12 - Manuel Dedola** *(University of Parma)*
Metal Snowdrifts: Ultraporous Base Metal Monoliths with Fully Addressable Reactivity

15:30 **OC13 - Michela Tozzi** *(University of Cagliari)*
Influence of the Buffer Used in the Preparation of Lipid Nanoparticles (LNPs) on Their Interaction with a Late Endosomal Membrane (LEM) mimic

15:45 **Round Table**
"L'IA nella ricerca e nella formazione: tra opportunità, rischi e giudizio critico"

17:30 **Closing remarks 1st day**

19:30 **Social Event #NGC drink & more**

Day 2
23rd Oct

Session IV

08:30 **Opening**

09:00 **IS1 - Ottavia Bettucci** *(University of Milan)*
The Art of Storytelling in Scientific Presentations

09:30 **OC14 - Davide Tocco** *(University of Cagliari)*
Morphological Modulation of FeBTC MOF via Acetic Acid Vapour Adsorption

09:45 **OC15 - Tania Squintu** *(University of Sassari)*
Dynamic Crosslinking of Bio-Based Unsaturated PHAs via Thiol-Ene Click Reactions

10:00 **OC16 - Erica Sanna** *(University of Cagliari)*
Dual SARS-CoV-2 Nsp13 Helicase Functions Inhibitors with Antiviral Activity and Additive Effects in Combination with Approved Antivirals

10:15 **OC17 - Emilia Crăciun** *(University of Cagliari)*
Heteroleptic Zn(II) Anilate-based 3D Coordination Polymer with Luminescent Properties

10:30 **SP3- Matteo Ferraris** *(BUZZI UNICEM)*
Investire sui Giovani:
Formazione e Inserimento in Azienda attraverso il Progetto TAGCEM

Session V

Coffee break & Poster Session

11:30 **IS2 - Narcis Avarvari** *(University of Angers)*
Functional coordination polymers and metal-organic frameworks

12:00 **OC18 - Alessandra Schirru** *(University of Cagliari)*
Whole-saliva shotgun proteomics reveals epithelial remodeling and innate immune dysregulation in atopic dermatitis

12:15 **OC19 - Giulio Casula** *(University of Cagliari)*
Tailoring the Surface of Marble-Waste Micro Fine Dust with Stearic Acid

12:30 **OC20 - Chiara Busonera** *(University of Cagliari)*
Influence of Synthetic Route, Cerium Precursor and Dehydrating Agent on the Catalytic Performance of Nanostructured CeO2 Catalysts for the Direct Synthesis of Dimethyl Carbonate

12:45 **OC21 - Pietro Rassu** *(University of Cagliari)*
Structure–Property Relationships in 3D Heteroleptic Anilate-Based Metal-Organic Frameworks

13:00 **Francesco Pili – DIABETE ZERO**
Diabete Zero: il valore dell'associazione e delle sue attività

13:15 **Awards & closing remarks**

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