Thursday 20 November 2025

8.30 – 9.00		***Registration***
9.00 – 9.15		***Opening ceremony***
Session 1		**Chair: Claudia Bello, Massimo Del Bubba**
9.15 – 10.00	**OL**	**José Juan Santana Rodriguez** – *University of Las Palmas de Gran Canaria* Insular environmental systems as fate of anthropogenic micropollutants: analysis and impact
10.00 – 10.30	**KN-1**	**Annalisa Scroccarello** – *University of Teramo* CO_2-laser as an emerging tool to generate nanostructured optically active sensing surfaces for colorimetric paper-based analytical devices
10.30 – 11.00		***Coffee break and poster session***
Session 2		**Chair: Alessandra Operamolla, Rebecca Pogni**
11.00 – 11.15	**OC-1**	**Lorenzo Raffellini** – *University of Pisa* Diarylmethane derivatives as novel therapeutic agents to counteract neurodegenerative diseases
11.15 – 11.30	**OC-2**	**Luigi Franchini** – *University of Perugia* Design, synthesis and characterization of ring A modified dafachronic acids as metabolically stable DAF-12 modulators
11.30 – 11.45	**OC-3**	**Federico Gianfanti** – *University of Urbino* Blackthorn juice from central Italy exhibits selective anticancer activity by inducing apoptosis and autophagy in gastric carcinoma cells
11.45 – 12.00	**OC-4**	**Giulia Bononi** – *University of Pisa* Rhenium-tricarbonyl molecular probes for IR diagnostics
12.00 – 12.15	**OC-5**	**Francesca Commito** – *University of L'Aquila* Solid magnetoliposomes application for water remediation
12.15 – 12.30	**OC-6**	**Giuseppina Truglio** – *University of Siena* Micronized wool enables Pickering-type emulsions for efficient metal-catalysed reactions in water
12.30 – 12.45	**OC-7**	**Rebecca Ferrisi** – *University of Milan* Exploring the Dualsteric Modulation of M2 Muscarinic Acetylcholine Receptor with Dequalinium-Based Hybrids
12.45 – 13.00	**OC-8**	**Carlos Roberto Jacinto-Mejía** – *University of Perugia* Transferable and Transparent Energy Decomposition-based Machine Learning Models for Computing Accurate Reaction Energetics
13.00 – 14.00		***Light lunch and poster session***
Session 3		**Chair: Giovanni Piersanti, Valentina Domenici**
14.00 – 14.30	**KN-2**	**Diego Sorbelli** – *University of Perugia* Controlling light and spin in optically addressable molecular qubits
14.30 – 14.45	**OC-9**	**Elisa Guazzelli** – *University of Pisa* Thermoresponsive unimer micelles from amphiphilic random copolymers for the encapsulation and release of hydrophobic molecules
14.45 – 15.00	**OC-10**	**Michele Berretta** – *University of Perugia* Gold–Cyclam complexes as dual anticancer agents: TrxR inhibition and Zinc-finger targeting
15.00 – 15.15	**OC-11**	**Costanza Ceni** – *University of Florence* 2-Amidobenzimidazole-based inhibitors of casein kinase 1δ: a novel strategy against neurodegeneration
15.15 – 15.30	**OC-12**	**Ludovit Schreiber** – *Comenius University in Bratislava* From Drug to Safe Water: 3D BDD Electrochemical degradation of selected antidepressant and its main metabolite from waters
15.30 – 15.45	**OC-13**	**Alessio Petrellini** – *University of Camerino* Design and synthesis of fluorescent benzothiazolines derivatives for fluorescent image-guided surgery

15.45 – 16.00	**OC-14**	**Alessia Marino** – *University of L'Aquila* Design and preparation of lignin-based heterogeneous catalysts for photocatalytic applications
16.00 – 16.30		***Coffee break and poster session***
Session 4		**Chair: Valeria Di Bussolo, Gabriella Tamasi**
16.30 – 17.00	**KN-3**	**Mattia Tiboni** – *University of Urbino* Solving pharmaceutical challenges with 3D printing: from tools to therapies
17.00 – 17.15	**OC-15**	**Agnese Purgatorio** – *University of Perugia* On the solution synthesis of sulphide electrolytes for all-solid-state batteries
17.15 – 17.30	**OC-16**	**Paolo Dossetto** – *Sciex* SCIEX 7500+: sub-ppt performance and unmatched reliability in complex matrices
17.30 – 17.45	**OC-17**	**Jessica Costa** – *University of Siena* The role of electron paramagnetic resonance in assessing geographical origin and oxidative stability in olive oil and wine supply chains
17.45 – 18.00	**OC-18**	**Federico Fanti** – *University of Teramo* Ultrasound-assisted synthesis of selective molecularly imprinted polymers for phytoprostane extraction and HRMS analysis
18.00 – 18.15	**OC-19**	**Laura Spagnuolo** – *University of Pisa* Immobilization of Candida rugosa lipase on cellulose nanocrystals: comparison between nonspecific and covalent approaches
18.15 – 18.30	**OC-20**	**Martina Colucci** – *University of Perugia* Coupled-Cluster analysis of intramolecular and intermolecular interactions in complex systems: from weak interactions to covalent bonds
18.30 – 18.45	**OC-21**	**Francesca Mancusi** – *University of Florence* Cellulose nanocrystal-indium tin oxide NPs nanohybrid for targeted photothermal cancer therapy
20.30		***Social dinner (Trattoria Zà Zà – Piazza del Mercato Centrale, 26r)***

Friday 21 November 2025

Session 1		**Chair: Carla Bazzicalupi, Oscar Francesconi**
9.00 – 9.30	**KN-4**	**Antonio Del Vecchio** – *University of Pisa* Advancing electrolysis modalities for electrooxidative nitroso Diels-Alder reaction
9.30 – 9.45	**OC-22**	**Lorenzo Baldinelli** – *University of Perugia* Designing function through modularity in transition-metal complexes
9.45 – 10.00	**OC-23**	**Andrea Lazzarini** - Cerium-doped bimetallic MOFs towards nature-inspired Oxygen Evolution Reaction – *University of L'Aquila*
10.00 – 10.15	**OC-24**	**Daniele Padula** – *University of Siena* Towards circularly polarised luminescence from inherently chiral inverted singlet-triplet dyes
10.15 – 10.30	**OC-25**	**Lorenza Marinaccio** – *University of Chieti-Pescara* Evaluation of the phytochemical profile and the biological activity of a walnut fresh fruit extract
10.30 – 10.45	**OC-26**	**Serena Reale** – *University of Pisa* A non-invasive method for skin odour chemical characterization
10.45 – 11.00	**OC-27**	**Annafelicia Civitavecchia** – *Università Politecnica delle Marche* Novel Nonwoven Antimicrobial Fabrics from recycled material
11.00 – 11.30		***Coffee break and poster session***
Session 2		**Chair: Claudia Bello, Marcello Crucianelli**
11.30 – 11.45	**OC-28**	**Simone Ventisette** – *University of Florence* Bioinspired molecularly imprinted polynorepinephrine nanoparticles as synthetic antibodies for selective protein recognition in optical biosensing
11.45 – 12.00	**OC-29**	**Martina Morello** – *University of Perugia* Catalytic chemical upcycling of branched polyolefins -
12.00 – 12.15	**OC-30**	**Maria Ruggirello** – *University of Siena* Expanding antibody–drug conjugates beyond oncology: a proof of concept for tuberculosis
12.15 – 12.30	**OC-31**	**Raffaello Nardin** – *University of Siena* Feature level data fusion and discriminant analysis for increase accuracy in zoning efforts
12.30 – 12.45	**OC-32**	**Luca Mancini** – *University of Perugia* Reactions of atomic nitrogen with pyridine, toluene and phenanthrene: molecular-level insights into the N-functionalization of graphene-based nanomaterials
12.45 – 13.00	**OC-33**	**Mihail Simion Beldean-Galea** – *Babeș-Bolyai University* Development of a multiclass analytical method for antidepressants and pesticides in water samples, based on solid-phase extraction and high-performance liquid chromatography coupled with photodiode array detection
13.00 – 13.15	**OC-34**	**Matteo Cei** – *University of Pisa* CPL photoscopy: circularly polarized luminescence detected by chromaticity differences
13.15 – 13.30	**OC-35**	**Duccio Tatini** – *University of Siena* Multimodal spectroscopy and data fusion approaches for the geographical origin authentication of agrifood products
13.30 – 14.30		***Light lunch and poster session***
Session 3		**Chair: Oscar Francesconi, Gabriella Tamasi**
14.30 – 14.45	**OC-36**	**Giacomo Pannacci** – *University of Perugia* Crossed-beam experiments on the reaction of ethylbenzene with atomic oxygen: insights into the degradation of polymers in space

14.45 – 15.00	**OC-37**	**Lorenzo Sembranti** – *University of Pisa* Modified metal electrodes for electrochemical quantification of urea in dialysate and blood
15.00 – 15.15	**OC-38**	**Marco Bonechi** – *University of Florence* Analytical characterisation of an atomically precise electrocatalyst for the oxygen reduction reaction obtained by selective recovery of Pd(II) from wastewater
15.30 – 15.45	**OC-39**	**Elena Cambiotti** – *University of Florence* Oleic Acid for Quantum Dot Degradation and Encapsulation
15.45 – 16.00	**OC-40**	**Marco Zannotti** – *University of Camerino* CO_2 sequestration by gas hydrates in marine environment: investigation of seawater and sediment chemistry
Session 4		**Chair: Massimo Del Bubba, Valeria Di Bussolo, Rebecca Pogni**
16.00 – 16.05	**FC -1**	**Daniel Rustichelli** – *University of L'Aquila* Direct synthesis of zeolitic coating on oxide surfaces for stability evaluation under reducing conditions
16.05 – 16.10	**FC -2**	**Martina Di Sessa** – *University of Camerino* Characterization of natural compounds from Antarctic bacteria and their environmental applications
16.10 – 16.15	**FC -3**	**Matilda Ymeraj** – *University of Urbino Carlo Bo* From structure to reactivity: investigation of the catalytic mechanism of adenosine phosphosulfate reductase (APSR) via QM/MM modelling
16.15 – 16.20	**FC -4**	**Maria Edith Casacchia** – *University of L'Aquila* Tailoring oxide supports to unlock synergistic effects in heterogeneous rhenium-catalysed deoxydehydration of polyols
16.20 – 16.25	**FC -5**	**Alessandro Nataloni** – *University of Perugia* Dehydrogenation of biomass-derived carbohydrates using an iridium catalyst to produce hydrogen and high added-value compounds
16.25 – 16.30	**FC -6**	**Mariano De Cristofaro** – *University of Pisa* Redefining heart failure diagnostics: a mass spectrometry-based approach to quantify natriuretic peptides
16.30 – 16.35	**FC -7**	**Sofia Lerda** – *University of Perugia* Complementary Light-Induced Mechanisms in Transition-Metal and Organic Photocatalyst
16.35 – 16.40	**FC -8**	**Lorenzo Chiaverini** – *University of Pisa* Biocompatible targeted nanoparticles for Platinum combination therapy in prostate cancer
16.40 – 16.45	**FC -9**	**Lorenzo Remia** – *University of Camerino* Silver nanoparticles via olive pomace extract: a sustainable approach for cadmium detection in mineral water
16.45 – 16.50	**FC -10**	**Gianluca Regni** – *University of Perugia* ADLD and ADEX: new lenses to see non-covalent interactions at atomic-level
16.50 – 16.55	**FC -11**	**Marina Petroselli** – *Università Politecnica delle Marche* First-Principles investigation of HfO2 and Zr-doped HfO2 as promising materials for energy harvesting applications
16.55 – 17.00	**FC -12**	**Leonardo Lucchesi** – *University of Siena* Versatility evaluation of dibromopyridazindione rebridging agent on monoclonal antibodies in clinical use
17.00 – 17.20		***Poster, Flash Presentation and Oral Awards***
17.20 – 17.30		***Closing Ceremony***

Poster

PC-1 **Giordano Aramini** – *University of Perugia*
NMR Investigations on the Selectivity of the Gold Catalyzed Heck Reaction

PC-2 **Bianca Laura Bernardoni** – *University of Pisa*
Dual Inhibition of ALDH1A and Carbonic Anhydrases in Glioblastoma: A Preliminary Study

PC-3 **Filippo Berzellini** – *University of Perugia*
Development of Nanostructured Lipid Carriers (NLC) for garcinoic acid nose-to-brain-delivery

PC-4 **Elisa Bianchi** – *University of Florence*
Nanocellulose as a support for drug delivery: a hydrophobic interaction

PC-5 **Massimo Calamante** – *Institute of Chemistry of Organometallic Compounds (CNR-ICCOM)*
Application of Fluorescent Organic Materials in Luminescent Solar Concentrators (LSCs) and Visible Light Communication (VLC)

PC-6 **Sara Caselli** – *University of Urbino Carlo Bo*
Sustainable One-Pot Strategy for the Synthesis of Substituted Dihydropyrroles and Pyrroles via N,N-Dialkylhydrazones and Azoalkenes

PC-7 **Jacopo Castagnoli** – *University of Pisa*
Design and development of NPs based on thiolated derivative of Hydroxypropyl-β-Cyclodextrin (HPβCD-SH) for improving ocular delivery of lipophilic drugs

PC-8 **Rosarita D'Orsi** – *University of Pisa*
Intramolecular C-H arylation of protected indole-amides to Phenanthridinone analogues

PC-9 **Alessio Dessì** – *Institute of Chemistry of Organometallic Compounds (CNR-ICCOM)*
Synthesis, characterization and application of new organic dyes as anodic sensitizers in photoelectrochemical cells

PC-10 **Davide Drusiani** – *University of Siena*
Development of Bioconjugates for the treatment of anaplastic thyroid carcinoma

PC-11 **Andrea Duri** – *University of Perugia*
Doping strategies to control the transition temperature in VO_2

PC-12 **Anna Emanuele** – *University of Florence*
Development of a Molecularly Imprinted Polymer sensor for PFOA detection in wastewater

PC-13 **Elena Ermini** – *Institute of Chemistry of Organometallic Compounds (CNR-ICCOM)*
Benzodithiophene and Dithienopyrrole-based dyes as sensitizers for photoelectrochemical cells

PC-14 **Lorenzo Filidei** – *University of Pisa*
NMR characterization of HA-BDDE hydrogels and prospective functionalization with pH indicators

PC-15 **Doralice Giorgini** – *University of Pisa*
MILESTONE: Mitochondrial delIvery of goLd-bearing complExeS with Tspo ligands for Ovarian caNcEr treatment

PC-16 **Federico Girolametti** – *Università Politecnica delle Marche*
Elemental and physicochemical characterization of honeys from Central Italy: a chemometric approach to botanical differentiation

PC-17 **Tiziano Marzo** – *University of Pisa*
A Nanotechnology-Driven Strategy to Boost Platinum-Based Drug Efficacy in Prostate Cancer

PC-18 **Adeel Mustafa** – *University of Camerino*
Analytical Determination of Residual Phenol, TMP and TDI in Polyisocyanate Systems

PC-19 **Alessandra Operamolla** – *University of Pisa*
Nanocellulose/polydopamine covalent hybrids for water purification

PC-20 **Federico Paolino** – *University of Pisa*
Inkjet printing of electronic traces on nanopaper

PC-21 **Eleonora Pavoni** – *Università Politecnica delle Marche*
WSe_2 and V-doped WSe_2 as emerging materials for THz application: an atomistic study

PC-22 **Matilde Rossi** – *University of Florence*
Structural Insights and Stability Evaluation of DNA/PNA Hetero-G-Quadruplexes

PC-23 **Fabrizio Ruggieri** – *University of L'Aquila*
Zeolite-Based Microextraction: A Sustainable Approach for Heavy Metal Removal from Water

PC-24 **Marco Salvigni** – *University of Florence*
Targeting BambL and LecA with multivalent glycomimetics: hamper cell infection without inducing resistance

PC-25 **Maria Chiara Santangelo** – *University of Pisa*
Glycoconjugated luminescent Ln (III) complexes as selective bioimaging probes

PC-26 **Naufia Mohamedzakaria Shibinasbarveen** – *University of Florence*
Structurally skewed macrocycle for molecular recognition of glucose in water

PC-27 **Francesco Taglieri** – *University of Perugia*
H/D exchange of amine compounds catalyzed by cationic dioxime - Iridium (III)-Cp* complexes using D_2O as deuterium source

PC-28 **Lucia Hojova** – *Comenius University in Bratislava*
Advanced Water Treatment: Electrochemical oxidation of persistent micropollutants and identification of their by-products