

PAST, PRESENT AND FUTURE OF INORGANIC CHEMISTRY IN ITALY: A PATH DEFINED BY THE WINNERS OF THE NASINI PRIZE

February, Monday 11, 2019

10:30 – 11:00 Opening (President of CNR, Editor and Guest Editor of EurJIC)

Advanced Techniques and Methodologies in Inorganic Chemistry

Chairman: Francesco FANIZZI (President of the Division of Inorganic Chemistry of the Italian Chemical Society)

11:00 – 11:20 Dario BRAGA, University of Bologna: “Organic-Inorganic Ionic Co-Crystals: A New Class of Multipurpose Compounds”

11:20 – 11:40 Maurizio CASARIN, University of Padova: “A comparative experimental and theoretical study of the Fe $L_{2,3}$ -edges XAS in three highly popular, low spin, organoiron complexes: $[Fe(CO)_5]$, $[(\eta^5-C_5H_5)Fe(CO)(\mu-CO)]_2$ and $[(\eta^5-C_5H_5)_2Fe]$ ”

11:40 – 12:00 Claudio LUCHINAT, University of Firenze: “NMR and metal ions in life sciences”

12:00 – 12:20 Fabrizia GREPIONI, University of Bologna: “Light interactions in crystals for interactions with light”

12:20 – 12:40 Norberto MASCIOCCHI, University of Insubria: “When Crystals go Nano. The Role of Advanced X-ray Total Scattering Methods in Nanotechnology”

12:40 – 13:00 Lucia BANCI, University of Firenze: “Metal transport in the cell”

13:00 – 15:00 Lunch

New Inorganic Complexes, Clusters and Reactions

Chairman: Adriana SACCONI

15:00 – 15:20 Enzo ALESSIO, University of Trieste: “The Pivotal Role of Ru-dmsO Compounds in the Discovery of Well-Behaved Precursors”

15:20 – 15:40 Fabio MARCHETTI, University of Pisa: “The $[Fe_2Cp_2(CO)_2]$ frame as a versatile scaffold to build uncommon organic architectures and cytotoxic compounds”

15:40 – 16:00 Rinaldo POLI, University of Toulouse: “Weak metal-carbon bonds as robust mediators for a controlled radical polymerization of less activated monomers”

16:00 – 16:20 Stefano ZACCHINI, University of Bologna: “From Chini clusters to molecular metal carbonyl nanoclusters: an organometallic approach to metal nanoparticles”

Innovative Inorganic (Nano)Materials

Chairman: Mario CHIESA

16:20 – 16:40 Roberta SESSOLI, University of Firenze: “Magnetic molecules for the second quantum revolution”

16:40 – 17:00 Maurizio PERUZZINI, DSCTM – CNR: “White, Red and Black: Playing with Phosphorus Allotropes from Organometallic Chemistry to Innovative Materials”

17:00 – 17:20 Claudio PETTINARI, University of Camerino: “Coordination Polymers and Metal-Organic Frameworks: Future Materials?”

17:20 – 18:00 TEA BREAK

18:00 – 18:20 Piersandro PALLAVICINI, University of Pavia: “*Noble metal nanoparticles for photothermally responsive surfaces*”

18:20 – 18:40 Silvia ORLANDUCCI, University of Roma Tor Vergata: “*Gold decorated Nanodiamond a powerful multifunctional materials from sensing, imaging, diagnostic and therapy*”

18:40 – 19:00 Andrea CORNIA, University of Modena: “*Forging molecular nanomagnets: a journey from crystals to addressable single molecules*”

19:00 – 19:20 Matteo MANNINI, University of Firenze: “*Molecular magnetism goes nano*”

19:20 – 19:40 Cristiana DI VALENTIN, University of Milano-Bicocca: “*Modelling Stimuli-Responsive Nanomaterials for Biomedical Applications*”

20:30 DINNER

February, Tuesday 12, 2019

8:30 – 9:00 Roberto PURRELLO (Consiglio Universitario Nazionale)

9:00 – 9:30 Delegate of MIUR (Ministero dell’Istruzione dell’Università e della Ricerca)

Inorganic Chemistry for Catalysis

Chairman: Emma GALLO

9:30 – 9:50 Gianfranco PACCHIONI, University of Milano-Bicocca: “*Electronic structure theory in catalysis: concepts, examples, and perspectives*”

9:50 – 10:10 Paolo FORNASIERO, University of Trieste: “*Towards rational heterogeneous catalyst design*”

10:10 – 10:30 Stefano AGNOLI, University of Padova: “*A surface science approach to electrocatalytic processes*”

10:30 – 10:50 COFFEE BREAK

Inorganic Chemistry for Energy

Chairman: Tiziana MARINO

10:50 – 11:20 Alberto CREDI, University of Padova: “*Supramolecular approaches to nanoscale machines, motors and materials operated by light*”

11:20 – 11:40 Sebastiano CAMPAGNA, University of Messina: “*Functional chromophore-catalysts assemblies for photoinduced water oxidation*”

11:40 – 12:00 Filippo DE ANGELIS, CNR-ISTM of Perugia: “*The transition from dye-sensitized to perovskite solar cells: Challenges for modelling*”

12:00 – 12:20 Giacomo BERGAMINI, University of Bologna: “*Light: a peculiar tool to investigate and operate supramolecular systems*”

12:20 – 12:40 Alceo MACCHIONI, University of Perugia: “*The Middle-Earth between Homogeneous and Heterogeneous Catalysis in Water Oxidation with Iridium*”

13:00 – 15:00 Lunch

Bioinorganic and Medicinal Chemistry

Chairman: Michele SAVIANO

15:00 – 15:20 Silvio AIME, University of Torino: “*New routes in the design of MRI reporters*”

15:20 – 15:40 Mauro BOTTA, University of Piemonte Orientale: “*Enhancing the Sensitivity of Gd-based Nanoparticles as MRI Probes*”

15:40 – 16:00 Antonio ROSATO, University of Firenze: “*Bioinformatics of Metalloproteins*”

16:00 – 16:20 Paola TURANO, University of Firenze: “*Integrated structural biology of iron biomineralization in the ferritin nanocage*”

16:20 – 16:40 Concluding Remarks