

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

February, Monday 11, 2019

Chairman: Arlette ITKEN-FUDER (Associate Editor of EurJIC) and Alceo MACCHIONI (Guest Editor of EurJIC Virtual Issue on Nasini Prize Winners)

10:15 – 10:25 Opening: Massimo INGUSCIO, University of Firenze, President of CNR

10:25 – 10:40 Alceo MACCHIONI, University of Perugia: “*Raffaello Nasini: An Eclectic Chemist Heralding the Interdisciplinary Essence of Inorganic Chemistry*”

10:40 – 11:00 Marco BELLA, University of Roma La Sapienza, Member of the Italian Parliament, “VII COMMISSIONE (CULTURA, SCIENZA E ISTRUZIONE)”

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], [(η⁵-C₅H₅)Fe(CO)(μ-CO)]₂ and [(η⁵-C₅H₅)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 – 14:00 Lunch

New Inorganic Complexes, Clusters and Reactions

Chairman: Adriana SACCONI

14:00 – 14:20 Enzo ALESSIO, University of Trieste: “*The Pivotal Role of Ru-dmso Compounds in the Discovery of Well-Behaved Precursors*”

14:20 – 14:40 Fabio MARCHETTI, University of Pisa: “*The [Fe₂Cp₂(CO)₂] frame as a versatile scaffold to build uncommon organic architectures and cytotoxic compounds*”

14:40 – 15:00 Rinaldo POLI, University of Toulouse: “*Weak metal-carbon bonds as robust mediators for a controlled radical polymerization of less activated monomers*”

15:00 – 15:20 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

15:20 – 15:40 Roberta SESSOLI, University of Firenze: *“Magnetic molecules for the second quantum revolution”*

15:40 – 16:00 Maurizio PERUZZINI, DSCTM – CNR: *“White, Red and Black: Playing with Phosphorus Allotropes from Organometallic Chemistry to Innovative Materials”*

16:00 – 16:20 Claudio PETTINARI, University of Camerino: *“Coordination Polymers and Metal-Organic Frameworks: Future Materials?”*

16:20 – 17:00 TEA BREAK

17:00 – 17:20 Piersandro PALLAVICINI, University of Pavia: *“Noble metal nanoparticles for photothermally responsive surfaces”*

17:20 – 17:40 Silvia ORLANDUCCI, University of Roma Tor Vergata: *“Gold decorated Nanodiamond a powerful multifunctional materials from sensing, imaging, diagnostic and therapy”*

17:40 – 18:00 Andrea CORNIA, University of Modena and Reggio Emilia: *“Forging molecular nanomagnets: a journey from crystals to addressable single molecules”*

18:00 – 18:20 Matteo MANNINI, University of Firenze: *“Molecular magnetism goes nano”*

18:20 – 18:40 Cristiana DI VALENTIN, University of Milano-Bicocca: *“Modelling Stimuli-Responsive Nanomaterials for Biomedical Applications”*

20:30 DINNER

February, Tuesday 12, 2019

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

9:00 – 9:30 Roberto PURRELLO, University of Catania and CUN

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

11:10 – 11:30 Sebastiano CAMPAGNA, University of Messina: “*Functional chromophore-catalysts assemblies for photoinduced water oxidation*”

11:30 – 11:50 Filippo DE ANGELIS, CNR-ISTM of Perugia: “*The transition from dye-sensitized to perovskite solar cells: Challenges for modelling*”

11:50 – 12:10 Giacomo BERGAMINI, University of Bologna: “*Light: a peculiar tool to investigate and operate supramolecular systems*”

12:10 – 12:30 Alceo MACCHIONI, University of Perugia: “*The Middle-Earth between Homogeneous and Heterogeneous Catalysis in Water Oxidation with Iridium*”

12:30 – 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