



POLITECNICO
MILANO 1863

European Research Council, 10th anniversary: ERC projects at Politecnico di Milano

13 March, Educafè ICT

- 15:00 Opening remarks
- 15:05 Stefano Ceri (Department of Electronics, Information and Bioengineering),
SeCo - Search Computing, AdG-2008
Stefano Ceri (Department of Electronics, Information and Bioengineering),
GeCo - Genomic Computing, AdG-2015
- 15:35 Carlo Ghezzi (Department of Electronics, Information and Bioengineering),
SMScom - Self-Managing Situated Computing, AdG-2008
- 15:55 Daniele Ielmini (Department of Electronics, Information and
Bioengineering), RESCUE - RESistive-Switch CompUting bEyond CMOS,
CoG-2014

Coffee Break

CHEMISTRY

- 16:30 Pierangelo Metrangolo (Department of Chemistry, Materials and Chemical
Engineering "Giulio Natta"), FOLDHALO - Folding with Halogen Bonding,
StG-2012
- 16:50 Manuela Raimondi (Department of Chemistry, Materials and Chemical
Engineering "Giulio Natta"), NICHOID - Mechanobiology of nuclear
import of transcription factors modeled within a bioengineered stem cell
niche, CoG-2014
Manuela Teresa Raimondi (Department of Chemistry, Materials and
Chemical Engineering "Giulio Natta"), NICHOIDS - Nichoid:
nanoengineered three-dimensional substrate for stem cell expansion, PoC
2016
- 17:10 Carmen Giordano (Department of Chemistry, Materials and Chemical
Engineering "Giulio Natta"), MINERVA - MICrobiota-Gut-BraiN
EngineeRed platform to eVALuate intestinal microflora impact on brain
functionality, CoG-2016

14 March, Red Room, Department of Physics

PHYSICS

- 15:00 Opening remarks
- 15:05 Giulio Cerullo (Department of Physics), STRATUS - Structure and dynamics of biomolecules by two-dimensional ultraviolet spectroscopy, AdG-2011
Giulio Cerullo (Department of Physics), MISSION - Mid infrared spectrometers by an innovative optical interferometer, PoC 2014
- 15:25 Mauro Nisoli (Department of Physics), ELYCHE - Electron-scale dynamics in chemistry, AdG-2008
- 15:45 Dario Polli (Department of Physics), VIBRA - Very fast Imaging by Broadband coherent Raman, CoG-2014
Dario Polli (Department of Physics), CHIMERA - A novel instrument to identify chiral molecules for pharmaceuticals and bio-chemistry, PoC 2016
- 16:05 Giovanni Isella (Department of Physics), INsPIRE - Chip-scale INtegrated Photonics for the mid-Infra Red, StG-2014 Université Paris-Sud
- 16:25 Cosimo D'Andrea (Department of Physics), SOLENALGAE - Improving photosynthetic solar energy conversion in microalgal cultures for the production of biofuels and high value products, StG-2015 Università di Verona

Coffee break

MATHEMATICS

- 17:00 Alfio Quarteroni (Department of Mathematics Francesco Brioschi), MATHCARD - Mathematical Modelling and Simulation of the Cardiovascular System, AdG-2008 EPFL

CULTURAL HERITAGE

- 17:20 Corinna Rossi (Department of Architecture, Built Environment and Construction Engineering), LIFE - Living In a Fringe Environment, CoG-2015

15 March, Sala Consiglio, Department of Energy

ENERGY

- 15:00 Opening remarks
- 15:05 Enrico Tronconi (Department of Energy), INTENT - Structured Reactors with INTensified Energy Transfer for Breakthrough Catalytic Technologies, AdG-2015
- 15:25 Carlo Spartaco Casari (Department of Energy), EspLORE - Extending the science perspectives of linear wires of carbon atoms from fundamental research to emerging materials, CoG-2016
- 15:45 Matteo Maestri (Department of Energy), SHAPE - Structure-dependent microkinetic modelling of heterogeneous catalytic processes, StG-2015
- 16:05 Matteo Passoni (Department of Energy), ENSURE - Exploring the New Science and engineering unveiled by Ultraintense ultrashort Radiation interaction with mattEr, CoG-2014
Matteo Passoni (Department of Energy), INTER - Innovative Neutron source for non destructive TESting and tReatments, PoC 2016

Coffee break

AERONAUTICS AND SPACE

- 16:40 Alberto Guardone (Department of Aerospace Science and Technology), NSHOCK - Non-classical rarefaction shock-waves in molecularly complex vapours, CoG-2013
- 17:00 Camilla Colombo (Department of Aerospace Science and Technology), COMPASS - Control for Orbit Manoeuvring through Perturbations for Application to Space Systems, StG-2015

CLIMATE CHANGE

- 17:20 Massimo Tavoni (Department of Management, Economics and Industrial Engineering), COBHAM - The role of consumer behavior and heterogeneity in the integrated assessment of energy and climate policies, CoG-2013