



**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            Bertrand Meyer (Department of Electronics, Information and  
Bioengineering), CME - Concurrency Made Easy, AdG-2011
- 16:15            Daniele Ielmini (Department of Electronics, Information and  
Bioengineering), RESCUE - RESistive-Switch CompUting bEYond CMOS,  
CoG-2014

### **Coffee Break**

### **CHEMISTRY**

- 16:50            Pierangelo Metrangolo (Department of Chemistry, Materials and Chemical  
Engineering "Giulio Natta"), FOLDHALO - Folding with Halogen Bonding,  
StG-2012
- 17:10            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 (Dept of Chemistry, Materials and Chemical  
Engineering "Giulio Natta"), NICHIDS - Nichoid: nanoengineered three-  
dimensional substrate for stem cell expansion, PoC 2016
- 17:30            Carmen Giordano (Department of Chemistry, Materials and Chemical  
Engineering "Giulio Natta"), MINERVA - MICOBIOTA-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            Mauro Nisoli (Department of Physics), ELYCHE - Electron-scale dynamics in chemistry, AdG-2008
- 15:25            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
- 15:45            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