



**red  
OX**

**Reducible oxide  
chemistry, structure and functions  
COST Action CM1104**



## **COST CM1104 WG3: workshop**

**28<sup>th</sup> and 29<sup>th</sup> April 2015**

**Institute for the Study of Nanostructured Materials (ISMN)-CNR,**

**Area della Ricerca, via Ugo La Malfa, 153, Palermo (Italy)**

**Venue: meeting room ground floor**

### **Program**

**28<sup>th</sup> April 2015**

**10:00-10:20** Registration

**10:20-10:30** Opening: local organiser Dr. Leonarda F. Liotta

**Session chaired by Dr. L.F. Liotta**

**10:30-11:00** Prof. Lyuba Ilieva:

Gold catalysts on Y-doped ceria for redox reactions: PROX and VOCs complete oxidation

**11:00-11:30** Dr. Petya Petrova

*Monometallic and bimetallic (Pd-Au) catalysts on Y-modified ceria supports for complete propene oxidation*

**11:30-12:00** Dr. Francesca Deganello

*Emerging trends in the solution combustion synthesis of materials for energy and environment*

**12:00-12:30** Prof. Georgi N. Vayssilov:

*Theoretical modeling of the surface intermediates upon interaction of NO with ceria*

**12:30-14:00** Lunch

**Session chaired by Dr. G. Pantaleo**

**14:00-14:30** Dr. Hristiyan A. Aleksandrov:

*Elucidation of the vibrational spectra of CO adsorbed on different platinum species on ceria*

**14:30-15:00** Dr. Leonarda Liotta:

*Ni-based catalysts for methane dry reforming: support composition and Au, Pt, Pd effect on the catalytic properties*

**15:00-15:30** Dr. Valeria La Parola:

*Structural characterizations of Ni-based catalysts*

**15:30-16:00** Coffee break

**16:00-16:30** Open Discussion

**21:00** Social Dinner

**29<sup>th</sup> April 2015**

**Session chaired by Prof. L. Ilieva**

**10:00-10:30** Prof. Tanya Tabakova:

*Water-gas shift reaction over gold catalysts supported on doped ceria: role of dopant nature and supports preparation method*

**10:30-11:00** Dr. Arturo Martinez:

*Size and shape effects in nanostructured catalysts based on combinations of copper and cerium oxides for preferential oxidation of CO in H<sub>2</sub>-rich streams.*

**11:00-11:30** Dr. Anna Maria Venezia:

*CH<sub>4</sub> partial oxidation over Ni-La<sub>2</sub>O<sub>3</sub>, Ni-CeLaO<sub>x</sub> and Ni-CeO<sub>2</sub>*

**11:30-11:40** intermission

**11:40-12:10** Dr. Giuseppe Pantaleo

*TiO<sub>2</sub> doping of SiO<sub>2</sub> supported Pd catalysts: effect on methane oxidation activity and SO<sub>2</sub> tolerance.*

**12:10-12:50** Discussion

**13:00-14:00** Lunch

**14:00-15:30** Visit of laboratories and concluding remarks