ACCOMMODATION

PARTIAL-PGMS Summer School is organised in the beautiful Albarella, a private environmentally protected island in the lagoon south of Venice, covered by Mediterranean scrubland, with 2 million trees and 150 different tree species.

Ideas will be fostered in an incredibly different silent and quiet environment, in close contact with nature, with shops and sports centres at a close range.



HOTEL CAPO NORD

Isola di Albarella Via Po di Levante, 4 45010 Rosolina (RO) iTALY

ORGANIZING COMMITTEE





in collaboration with W.TRAINING

MORE INFO

www.partial-pgms.eu partialpgms@gmail.com





Partial-PGMs project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 686086

Powered by Warrant Hub Spa



PARTIAL-PGMs SUMMER SCHOOL

Novel Automotive Catalysts production – materials modelling and synthesis, characterisation, scale-up and industrial process

17-20 June 2019 Isola di Albarella (Italy)



After April 21 - 980 euro - all inclusive



THE SCHOOL IS ADDRESSED TO:



OBJECTIVES

PARTIAL-PGMs Summer School focuses on the process of creation and production of novel automotive catalysts, from materials modelling to the industrial scale-up, going through materials syntesis, characterisation and testing.

The Summer School will give to the participants the unique opportunity of learning from and network with eminent academics and professionals in the field.

WHY PARTICIPATING



Improve your knowledge

-

CONT CAR AN

Meet important people



Network and interact

Relax, sport and nature

SCHOOL PROGRAM

Monday 17th June 2019

A bus transfer from the airport will be arrange during Monday morning.

13:00: Welcome Cocktail

14:30 – 16:00: School meet and greet The organizing committee: Massimo Rinaldi, Antonella Glisenti and Fotis Katsaros

16:00 – 17:00 | PARTIAL-PGMs Horizon 2020 Funded Project Massimo Rinaldi, Warrant Hub Fotis Katsaros, Demokritos

17:00 – 18:00: Background to automotive emissions control Andrew York, Johnson Matthey Technology Centre

Tuesday 18th June 2019

9:00 – 9:45 | Ceria Catalysts at Nanoscale: Engineering particle shapes to shape catalysis Alessandro Trovarelli, University of Udine 9:45 – 10:30 | Catalysts based on perovskites

Antonella Glisenti, University of Padova

10:30 - 11:15 | A unitary preliminary vision of the processes underlying surface characterization tools Gaetano Granozzi, University of Padova

11:15 - 11:30 | Coffee Break

11:30 - 12:15 | FTIR Drifts Christophe Dujardin, University of Lille 12:15 - 13:00 | Space- and time-resolved operando methodologies Atsushi Urakawa, Institut Català d'Investigació Química 13:00 - 14:00 | Light Lunch

14:00 - 14:45 | Critical issues in testing the catalyst activity Paolo Canu, University of Padova

14:45 - 15:30 | Application of operando/synchrotron techniques to TWC Davide Ferri, Paul Scherrer Institut

15:30 – 16:15 | Designing the next generation of environmental catalysts through multiscale modelling Emiel Hensen, Eindhoven University of Technology

16.15 | Open Discussion

17:30 | Networking time: cycling tour of the island (about 2 hours) 20:00 | Dinner

Wednesday 19th June 2019

9:00 – 9:45 | How do perosvkite-based three ways catalysts work? Hints from operando Raman spectroscopy Elise Berrier, University of Lille

9:45 - 10:15 | Using Neutrons to measure diffusion in NOx emissions control catalysts Andrew York, Johnson Matthey Technology Centre

10:15 - 11:00 | Hybrid Nanoarchitectures for Sustainable Catalysts from 2D Materials Gaetano Granozzi, University of Padova

11:00 - 11:15 | Coffee Break

11:15 – 12:00 | Water-based synthesis routes towards dispersed metal-oxide activated porous catalysts Fotis Katsaros, Demokritos Pegie Cool, Universiteit Antwerpen

12:00 – 12:30 | Surface Analysis Principles: XPS Antonella Glisenti, University of Padova

12:30 - 13:00 | The modelling approach to TWC catalysis Andrea Vittadini, National Research Council

13:00 - 14:00 | Light Lunch

14:00 - 14:45 | Use of DFT results in actual catalysts' kinetic studies

Paolo Canu, University of Padova

14:45 - 15:30 | Pore-scale modelling of mass transport in 3D reconstructed catalysts and filters

Petr Koci, University of Chemistry and Technology, Prague

15.30 | Open Discussion

17:00 | Networking time

20:00 | Gala Dinner

Thursday 20th June 2019

9:00 - 9:40 | Magnetic Resonance Imaging for Investigating **Particulate Filters** Andrew York, Johnson Matthey Technology Centre 09:40 - 10:20 | Filters and membranes Haris Kadrispahic, Lig-tech 10:20 - 11:00 | Building a 4-Way Catalytic Converters: System architecture and engine technology Athanasios Tsolakis, University of Birmingham 11:00 - 11:15 | Coffee Break 11:15 - 11:45 | LCA: principle and strategies of approach toward a circular economy Francesco Cavallini, eAmbiente 11:45 - 12:30 | Recycling CRMs: Potential, Challenges and **Future** Ioanna Giannopoulou, National University of Athens 12:30 - 13:00 | Horizon Europe Isella Vicini. Warrant Hub 13:00 - 13:30 GRADUATIONS 13:30 - 14:30 | Light Lunch A bus transfer to the airport will be arrange during the afternoon.