



YOUNG RESEARCHER'S DIVISION

6th Young Researchers Meeting ENMIX – YRM 2019

April 5th, 2019 – Rome, Italy

Following the ENMIX workshop, the young scientists from 8 scientific institutions and universities and 7 countries met for scientific exchange at the CNR Headquarters in Rome, Italy. The meeting took place following the ENMIX Workshop (April 3-4th, 2019) on April 5th, 2019. The focus of the ENMIX Young Researcher Division is on scientific exchange, the search for new collaborations and a fast way to make different measuring technologies accessible. In addition, there will be opportunities to discuss one's own research from a different perspective. Furthermore, the young scientists have a platform for the formation of a scientific network.

Agenda

The 6th Young Researchers Meeting brought together 19 PhD students and Post-docs representing groups from Alicante, Antwerp, Delft, Ljubljana, Mol, Rome, Stuttgart, Valencia. After a general introduction to the ENMIX YRD, the participants presented their current research. These presentations were then the basis for discussions on possible collaborations.

Outcomes

There was a discussion about the frequency of the meetings. Part of the group was for meetings at 1.5 annual intervals to reduce travel costs and increase the amount of new results. However, a large part of the group was in favor of maintaining the 9-month interval. A place for the new meeting has not yet been determined. It was also discussed that an online platform should be set up for the YR. On this platform, the subject area and the available measuring instruments of the institutes will be listed. In addition, there should be the possibility for a chat.

The organizing committee would like to thank all the participants for their contribution to this fruitful meeting.

Dorothea Häussermann (University of Stuttgart, Stuttgart)
Eduardo Pérez-Botella (Instituto de Tecnología Química, Valencia)

April 5th, 2019

09:00 – 18:00

Young Scientists Forum

09:00 - 09:20

Ignacio Campello, University of Alicante, Spain
Mesoporous Phosphorus-Nitrogen-codoped activated carbons via microwave- assisted synthesis

09:20 - 09:40

Nick Gys, VITO, Mol, Belgium
Phosphonic Acid Modification of TiO₂ surfaces: Introducing Amine Functionalities

09:40 - 10:00

Bharadwaj Mysore Ramesha, University of Antwerp, Belgium
Molecular Tuning of Hybrid Mesoporous Titanium Phosphonate

10:00 - 10:20

Agustín de Arriba Mateos, ITQ Valencia, Spain
ODH of ethane over Orthorhombic MoV-based catalysts: the key aspect is the control of the olefin overoxidation

10:20 - 10:40

Maria del Rocio Diaz Rey, ITQ Valencia, Spain
Oligomerization of C5 olefins over Nano-Ferrierite

10:40 - 11:10

COFFEE BREAK

11:10 - 11:30

Tadej Žumbar, NIKLjubljana-Slovenia
Bimetal Cu-Fe catalyst on alumina support for catalytic oxidation of VOCs

11:30 - 11:50

Juan J. Villora-Picó, University of Alicante, Spain
VOCs Adsorption on Doped Carbons

11:50 - 12:10

Andrea Erigoni, ITQ Valencia, Spain
Hybrid Acid Catalysts: Synthesis and Spectroscopic Characterization

12:10 - 12:30

Dorothea Häussermann, University of Stuttgart, Germany
Dehydration of lactic acid over zeolite catalysts

12.30 - 12:50

Joachim Hildebrand, University of Stuttgart, Germany
Elkasyn Electrocatalytic Alcohol Synthesis

12:50 - 13:50

LUNCH

13:50 - 14:10

Jesus Gandara-Loe, University of Alicante, Spain
Metal–Organic Frameworks as Drug Delivery Platforms for Ocular Therapeutics

14:10 - 14:30

Davide Rega, Delft University of Technology, The Netherlands
Metal-Organic Frameworks for Piezoelectric Energy Harvesters

14:30 - 14:50

Snezana Reljic, University of Alicante, Spain
Degradation of MOFs by H₂S: Effects on the gas adsorption performance

14:50 - 15:10

Carlos Cuadrado-Collados, University of Alicante, Spain

Confinement Effects in the Formation of Ice/Gas Hydrate Nanocrystals

- 15:10 - 15:30 Eduardo Pérez-Botella, ITQ Valencia, Spain
A boron-containing OSDA-free DDR zeolite with potential applicability to the CO₂/CH₄ separation
- 15:30 - 15:50 Marvin Stoll, University of Stuttgart, Germany
Challenges For pH-Control During CO₂/H₂O-Co-Electrolysis To Formic Acid With High Current Densities
- 15:50 - 16:20 TEA BREAK
- 16:20 - 16:40 Caiyun Xu, University of Stuttgart, Germany
Development of porous materials for methane oxidation in continuous flow microreactor
- 16:40 - 17:00 Nuria Gonzalez Camuñas, ITQ Valencia, Spain
Synthesis and Characterization of the First AIPO with STA-1 Structure Stable after Calcination
- 17:00 - 17:20 P. Colucci, CNR, Rome, Italy
Lignin Depolymerization by Catalytic Hydrogenolysis Performed with Smectitic Clay Based Materials
- 17:20 - 18:00 Final remarks