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## Third European Workshop on Membrane reactors: Membrane Reactors for Process Intensification – MR4PI 2017

### Agenda

Thursday 9<sup>th</sup> March, 2017

8:30-9:00 Registration/Coffee

9:00 – 9:15 Introduction –Welcome (Fausto Gallucci, Gilbert Rios, Carlo Tregambe)

9:15 – Session 1 – Fundamentals

9:15 – 9:40 - Arend de Groot – **ECN**: “Process Intensification with membrane reactors - results from CARENA”

9:40 – 10:05 - Marie-Laure Fontaine- **SINTEF** “Scale-up and demonstration of inorganic membranes for gas separation and membrane reactors”

10:05 – 10:30 -Alfredo Pacheco Tanaka – **Tecnia**: “Thin supported Pd alloy membranes for hydrogen separation”

10:30 – 10:50 Coffee Break - posters

10:50 – 11:15 - Vladimir Volkov - **A.V. Topchiev Institute**: “Catalytic membrane reactors in Topchiev institute”

11:15 - 11:40 - Morten Logemann – **Aachen**: “Membrane reactors : state of the art and new concepts from ROMEO”

11:40 – 12:05 Simon Jacques – **Finden**: “Imaging Chemistry Inside Working Reactors”

12:05 – 12:30 Christiane Gunther – **Rauschert**: “Membrane support manufacturing”

12:30 – 13:30 – Round table discussion (Chair Gilbert Rios, Giampaolo Manzolini)

13:30 – 14:30 Lunch – posters

14:30 – Session 2 - Process design and applications

14:30 – 14:55 Jennifer Hasselberg – **Evonik**: “ROMEO - A major step toward more sustainable processes”



14:55 – 15:20 Vincenzo Spallina – **TUE**: “Preliminary techno-economic assessment of membrane assisted OCM reactor integrated for olefins production”

15:20 – 15:45 Leonardo Roses – **Hygear**: “On-site gas supply and m-CHP with ATR membrane reactor”

**15:45 – 16:15 Coffee Break – posters**

16:15 – 16:40 Sylvie Escribano – **CEA**: “Investigation on a PEM fuel cell for reformat fuel operation in a micro-CHP system using a membrane reformer”

16:40 – 17:05 Martin van Sint Annaland - **TUE**: “Modeling of fluidized bed membrane reactors”

**17:05 – 17:40 Round table discussion (Chair Marc Kristen, Gioele Di Marcoberardino)**

**17:40 - 18:40 Poster and drink**

**19:30 – Social event (city tour) + Dinner (RISTORANTE MAFFEI – Piazza Erbe, 38 – VERONA)**

## **Friday 10<sup>th</sup> March, 2017**

**9:15 – Session 3 – Industrial applications**

9:15 – 9:40 Emma Palo – **KT**: “Application of membrane reactors: An industrial perspective”

9:40 – 10:05 Violaine Magaud – **Quantis**: “Can membrane reactors contribute to mitigate climate change? The answer through life cycle assessment”

10:05 – 10:30 Johnny Marcher - **LiqTech**: “SiC membranes, an emerging technology”

**10:30 – 11:00 Coffee Break - posters**

11:00 - 11:25 Gioele Di Marcoberardino – **Polimi**: “Application and system evaluation of membrane reactors with different fuels”

11:25 – 11:50 Carlo Tregambe – **ICI**: Hydrogen 4.0 – possible applications

11:50 – 12:15 Hamid Godini -**TU Berlin**: “Conceptual analysis of an integrated OCM process: Synchronizing the performance of the OCM reactor and downstream units”

**12:15 – 13:00 – Round table discussion (Chair Carlo Tregambe, Fausto Gallucci)**

**13:00 – 14:00 Lunch – posters**

**14:00 – Visit to the company (ICI)**

**16:30 – End of the meeting and transfer to the airport**

