



PROMECA

PROCESS INTENSIFICATION THROUGH THE DEVELOPMENT OF INNOVATIVE MEMBRANES AND CATALYSTS

GRANT AGREEMENT NUMBER: 734561

PROMECA Workshop 2018: Membranes and Membrane Reactors

December 4th, 2018

STC002, Helix Building - Eindhoven University of Technology
Het Kranenveld 14, 5612 AZ Eindhoven, The Netherlands

9:00 - 9:30 **Registration/Coffee**

9:30 – 9:45 Introduction to PROMECA
Vincenzo Palma (University of Salerno, Italy).

9:45 – 10:30 Development of zeolite (catalytic) membranes
Catia Algieri (Institute on Membrane Technology, CNR, Italy).

10:30 – 11:00 **Coffee break**

11:00 - 11:50 Membranes for gas separation and membranes reactors
David-Alfredo Pacheco-Tanaka (TECNALIA, Spain).

11:50 - 12:35 Membranes and membrane reactors for industrial applications
Vincenzo Spallina (Manchester University, UK).

12:35 - 13:05 The role of carriers on the performance of structured catalysts
Eugenio Meloni and Concetta Ruocco (University of Salerno, Italy).

13:05 – 14:00 **Lunch**

14:00 - 14:30 Artificial Intelligence in Membrane process design
Arash Helmi (Eindhoven University of Technology, Netherlands) & **Raf Roelant** (PDC, Breda, Netherlands).

14:30 - 15:00 Future of energy storage: high power-low cost flow batteries
Yohanes Hugo (Elestor, Netherlands)

15:00 - 15:30 Techno-economic assessment for “green” hydrogen production from renewables
Lorena Mosca (Kinetics Technology, Italy) & **Jose-Antonio Medrano-Jimenez** (Eindhoven University of Technology, Netherlands).

15:30 - 16:00 Hydrogen reactors and micro-CHP applications
Antonella Baione (ICI Caldaie, Italy).

16:00 – 16:30 **Coffee Break**

16:30 - 17:15 Visit to TU/e labs

17:15 – 17:30 **Conclusions**