

PROGRAM

Monday 23 March

8:30 *Registration and welcome coffee*

9:00 **Opening of the conference**

J-F. Joly (Scale4MAT scientific correspondent, IFPEN, France)

SESSION 1: TOWARDS SCALE-UP OF LABORATORY SYNTHESIS

9:15 **Towards innovative materials**

D. Uzio, G. Pirngruber (IFPEN, France)

10:15 **Scale up of innovative materials**

J-M. Schweitzer, M. Serval (IFPEN, France)

11:15 **PRODIA project (MOF)**

D. Farrusseng (IRCELYON, France)

12:15 *Lunch*

SESSION 2: ACCESS TO KEY PARAMETERS/DESCRIPTORS NECESSARY FOR MODELING AND SCALE-UP: ANALYTICAL TECHNIQUES

13:30 **Overview of the characterization techniques for porous media**

J. Groen (Delft Solids Solutions, Netherlands)

14:30 **Understanding structure-transport relationships in disordered porous solids**

S. P. Rigby (Univ. of Nottingham, UK)

15:30 **Void space descriptors using tomography and NMR to help model gas flow through monoliths**

R. Sato (Johnson Matthey, Japan)

16:30 *Coffee break*

17:00 **Characterization of boehmite multi-scale organisation by Small-angle X-ray scattering**

S. Humbert (IFPEN, France)

SESSION 3: OPERATION UNITS MODELING FOR SCALE-UP

17:40 **Population balance approach for gelification modeling**

M. Lattuada (Univ. of Fribourg, Switzerland)

18:40 *End of the presentations*

20:00 *Workshop Dinner*

Tuesday 24 March

8:45 *Welcome coffee*

SESSION 3 *(continued)*: OPERATION UNITS MODELING FOR SCALE-UP

9:00 **Applications of nuclear magnetic resonance to measure effective diffusivity in porous media**
M.D. Mantle (Univ. of Cambridge, UK)

10:00 **Porous network modeling - synthesis and discussion**
J. Verstraete (IFPEN, France)

11:00 **Shear-induced structuring and thickening in suspension flow: from experiments to modeling**
S. Manneville (ENS de Lyon, France)

12:00 **Conclusion - Round table "Looking ahead"**

13:00 *Lunch*

14:30 *End of the Workshop*