Reach the vision!

Workshop on Materials, processes and technologies for a water sustainable process industry in 2050
Program

9:30	Registration
10:00	Welcome and goals of the workshop *Albert Jansen (TNO)*
10:05	Introduction to the vision and methods developed in previous workshops *Jitka Macadam (Cranfield University), Nienke Koeman (TNO)*
10:30	**Presentation Veolia and Suez** "Water Industry in 2050: Water companies vision on challenges and technological needs" *Catherine Daines-Martinez (Veolia), Sylvie Baig (Suez Degremont)*
11:15	**Planar discussion on 1 challenge** For the defined challenges and the vision the following questions can be answered 1. What is the benefit? *Eg: Less stress on water resources, lower energy use, etc* 2. Who (what) benefits? *Eg: Companies, environment, civilians, etc* During the discussion we will answer the following questions 3. How can this work? *(concepts, tools)* 4. What is needed to make this work? *(processes, materials, and technologies)*
12:00	*Lunch break*
13:00	**Discussion** on processes, materials, and technologies needed to reach the vision *Break up in small groups for discussion (answer questions above)*
14:00	**Present results from group discussions**
14:30	**Presentations** • "Membrane technologies in the perspective of ChemWater: unique and essential tools for a sustainable development based on life model" *Gilbert Rios (European Membrane House)* • "Improved process sustainability by using solid heterogeneous catalysts in water treatment technologies" *Gabriele Centi, Siglinda Perathoner, Stefano Vannuzzi* (European Research Institute of Catalysis (ERIC)) • "Identification and development of nano-materials for water treatment" *Michael Störker (ENMIX)*
15:30	*Coffee Break*
16:00	**Discussions** (in groups) • Definition of intermediate goals (2020, 2030) and ways to reach them • Allocation of skills, competencies, coordination and funding needed to reach the vision within the following topics: o Chemical process engineering, reaction and process design o Emerging water treatment technologies o Identification and development of (nano) materials
16:45	**Present results from discussions**
17:00-17:10	Closure *Thomas Track (Dechema)*