



## Heterogeneous Catalysts for Sustainable Industry 2019 – Programme

**0900 – 0950 Registration & Coffee**

**0950 – 1000 Introduction**

**1000 – 1200 Session 1: An introduction to heterogeneous catalysis**

**1000 – 1040 IT1:** *Gold catalysts for cleaner industrial applications: Recent successes and future outlook;* Dr Samuel Pattisson, Cardiff University, U.K.

**1040 – 1120 IT2:** *Shaping the future of catalysts;* Dr Marco Kennema, BASF Ludwigshafen, Germany.

**1120 – 1140 T1:** *A chemo-enzymatic oxidation cascade to activate C–H bonds with in situ generated H<sub>2</sub>O<sub>2</sub>;* Dr Simon Freakley, University of Bath, U.K.

**1140 – 1200 T2:** *Non-thermal plasma (NTP) activated heterogeneous catalysts for catalytic CO<sub>2</sub> hydrogenation;* Yibing Mu, The University of Manchester, U.K.

**1200 – 1300 Session 2: Heterogeneous catalysts for sustainable industry**

**1200 – 1240 IT3:** *Heterogeneous catalysis for a sustainable industry – an applied industrial perspective;* Dr Paul Murray, Catalysis Consulting Ltd, U.K.

**1240 – 1300 T3:** *New frontiers in catalysis: 3D printed reactors for sustainable chemistry;* Dr Vesna Middelkoop, Sustainable Materials, VITO, Belgium.

**1300 – 1400 Lunch and Posters**

## **1400 – 1500 Session 2 (cont.): Heterogeneous catalysts for sustainable industry**

**1400 – 1440 IT4:** *From zeolite powder to industrial catalyst for sustainable industry: an overview of the scale-up and industrialization process;* Dr Nicolas Bats, Johnson Matthey, U.K.

**1440 – 1500 T4:** *Smectitic clays as clean and cost effective heterogeneous catalysts;* Dr Oscar Kelly, BYK Additives Ltd., U.K.

## **1500 – 1600 Session 3: Next generation heterogeneous catalysts**

**1500 – 1540 IT5:** *A revisit to the longstanding dealumination and desilication of synthetic zeolites;* Dr Xiaolei Fan, The University of Manchester, U.K.

**1540 – 1600 T5:** *Sustainable nitrogen-doped carbons in hydrogenation reactions;* Monika Bosilj, Fraunhofer Institute for Solar Energy Systems, Germany.

## **1600 – 1615 Coffee & Posters**

## **1615 – 1715 Session 3 (cont): Next generation heterogeneous catalysts**

**1615 – 1655 IT6:** *Exploiting novel supports in heterogeneous catalysis;* Dr Thomas Chamberlain, University of Leeds, U.K.

**1655 – 1715 T6:** *Designing catalysts for cascade transformations;* Dr Christopher Parlett, The University of Manchester, U.K.

## **1715 – 1800 Panel discussion with the experts: “What are the challenges and opportunities for heterogeneous catalysts in a sustainable chemical industry?”**

## **1800 – 1815 Closing remarks and poster prizes**

