



Norwegian Catalysis Symposium 2013

Venue: Auditorium R5, Realfagsbygget, Høgskoleringen 1, NTNU, Trondheim

Programme

December 2:

Session 1: Chair: Unni Olsbye

17:00- 18:00 Joint inGAP-NCS lecture: Bert Weckhuysen, University of Utrecht, Netherlands: *Catalytic conversion of lignin for the production of renewable chemicals*

19:30 Dinner: Astrum Grill & Raw Bar, Clarion Hotel & Congress, Brattørkaia 1, Trondheim

December 3:

08:30-09:00 Coffee and mingling

Session 2: Chairs: Erwan Le Roux, Hilde Venvik

09:00-09:40 K1 Magnus Skoglundh, Competence Centre for Catalysis, Chalmers University of Technology, Sweden: *Fundamental deactivation mechanisms of iron-exchanged zeolite beta as catalyst for selective catalytic reduction of nitrogen oxides in oxygen excess*

09:40-10:00 O1 Jia Yang, SINTEF/ Department of Chemical Engineering, NTNU: *Fischer-Tropsch Synthesis: Impact of Activation by H₂ or CO on Methane Selectivity*

10:00-10:20 O2 Christian Ahoba-Sam. Department of Chemistry, UiO: *A kinetic study of ethene oligomerization over H-SAPO-5*

10:20-10:40 O3 Kathrine Lie Bøyese, Department of Chemistry, NTNU: *Exposing the Synergistic Effect Between Copper and Vanadium in AIPO-5 and H-ZSM-5 during the Selective Oxidation of Propene*

10:40-11:00 Coffee break

Session 3: Chairs: Stian Svelle, Torbjørn Gjervan

- 11:00-11:20 O4 Ingeborg-Helene Svenum, SINTEF/Department of Chemical Engineering, NTNU: *Alloying Pd with Ag – effect on surface phenomena*
- 11:20-11:40 O5 Li Lu, Faculty of Technology, Telemark University College: *Conversion of ethene to propene by a dual function NiSO₄/Re₂O₇/γ-Al₂O₃ catalyst*
- 11:40-12:00 O6 De Chen, Department of Chemical Engineering, NTNU: *Perovskite LaFeO₃ catalyzed oxidation: from theory to practice*
- 12:00-13:00 *Lunch*
- Session 4: *Chairs: Karina Mathisen, Magnus Rønning*
- 13:00-13:40 **K2 David Waller, Yara Technology Centre: *The forming of catalyst pellets by dry-powder compaction***
- 13:40-14:00 O7 Marthe Emelie Melandsø Buan, Department of Chemical Engineering, NTNU: *N-doped Carbon Nanomaterials as Catalysts for the Oxygen Reduction Reaction*
- 14:00-14:20 O8 Giovanni Occhipinti, Department of Chemistry, UiB: *Novel and Robust Z-selective Olefin Metathesis Catalysts*
- 14:20-14:40 O9 Sigurd Øien, Department of Chemistry, UiO: *Zirconium MOF single crystal growth and diffraction*
- 14:40-15:00 *Coffee break*
- Session 5: *Chairs: Klaus-Joachim Jens, Anders Holmen*
- 15:00-15:20 O10 Magnus Rønning, Department of Chemical Engineering, NTNU: *In situ characterisation of cobalt-based Fischer-Tropsch synthesis catalysts: Strategies to improve (surface) sensitivity of bulk techniques*
- 15:20-15:40 O11 Andrey Volynkin, Department of Chemical Engineering, NTNU: *Propane dehydrogenation on carbon-supported Pt catalysts*
- 15:40-16:00 O12 Selene Hernández Morejudo, Department of Chemistry, UiO: *Aromatization of methane over Mo impregnated zeolite catalysts*
- 16:00-16:20 O13 Yanying Qi, Department of Chemical Engineering, NTNU: *DFT study on the reaction mechanism of CO activation on Co Fischer-Tropsch catalysts*
- 16:20-16:40 O14 Nataliia Kasian, Department of Chemistry, UiO/IRCELYon: *Carbon Nitrides: In search of a photocatalyst for water splitting*
- 16:40 End of meeting**