



Norwegian Catalysis Symposium 2010

and

Annual Meeting of the KOSK II Program of the Norwegian Research Council

Grand Hotel Terminus, Bergen

Scientific program

Monday November 29th, 2010

09:30 **Registration and Coffee**

10:00 **Welcome**

10:10 – 12:20 Session 1, chaired by Stian Svelle

10:10 **Lecture: Richard H. Heyn and Mats Tilset**

Development of Au Catalysts for the Functionalization of Alkanes: Precursor Synthesis, Reactivity, and Properties

10:55 **Giovanni Occhipinti**

The Stability of Metal(III) Tetramethylaluminates for Olefin Polymerization: a QSPR/DFT Study

11:15 **Eirin Langseth**

New Developments in cis-Selective Cyclopropanations Using Rh(I) Catalysts

11:35 **Lecture: Hans-René Bjørsvik**

Continuous Flow Olefin Metathesis Using the Novel Multi-Jet Oscillating Disk Reactor System as Reaction Platform

12:20 **Lunch**

13:15 – 14:35 Session 2, chaired by Knut J. Børve

13:15 **Plenary lecture: Gadi Rothenberg**

Finding Good Catalysts Using Predictive Modelling

14:15 **Sandrine Benard**

Regeneration Study of H-ZSM-22 Used as a Catalyst for Methanol Conversion into Olefins

14:35 **Coffee Break**

14:55 – 16:15 Session 3, chaired by De Chen

14:55 **Tiejun Zhao**

Synthesis of Supported Catalysts by Impregnation and Calcination of a Low-Temperature Polymerizable Metal-Complex Solution

15:15 **Ilya. V. Gorelkin**

Concepts and Models of the Catalytic Dehydrogenation of Propane

15:35 **Jun Zhu**

Study on Active Sites in Pt Nanoparticles for Propane Dehydrogenation

15:55 **P. V. D. S. Gunawardana**

Experimental Study of Ni Based Alloys in High Carburising Environment

16:20 **Annual Meeting of the KOSK II Program**

16:25 **Annual Meeting of the Norwegian Chemical Society's Catalysis Group**

17:00 **Guided Walks in the City Center (Bryggen, etc.)**

19:30 **Conference Dinner at Grand Hotel Terminus**

Tuesday, November 30th, 2010

08:30 – 9:50 Session 4, chaired by Vidar R. Jensen

08:30 **Plenary lecture: Herbert Plenio**

Olefin Metathesis – Shining Brightly!

09:30 **Yury Minenkov**

The Nature of the Barrier to Phosphine Dissociation from Grubbs Olefin Metathesis Catalysts

09:50 **Coffee Break**

10:10 – 11:50 Session 5, chaired by Karl-Petter Lillerud

10:10 **Nicolas Merle**

Convenient Synthesis of Tridentate NHC Niobium (V) and Tantalum (V) Complexes and their Application in ROMP

10:30 **Wouter Heyndrickx**

Neutral Ni Oligo- and Polymerization Catalysts: A Novel Termination Pathway Decides the Chain Length

10:50 **Anna Tsoukala**
Organic Phase Nano-Filtration for Isolation of Palladium Catalyst after Heck Coupling Reaction

11:10 **Wegard Skistad**
Synthesis and Testing of Zeolites with Different Pore Systems

11:30 **Bjørn Tore Lønstad**
CO₂ Separation over Selective Zeolite Membranes

11:55 **Lunch**

13:00 – 14:45 Session 6, chaired by Unni Olsbye

13:00 **Lecture: Pascal D. C. Dietzel**
Coordination Polymers with High Density of Open Metal Sites – Syntheses, Structures and Adsorption Properties

13:45 **Francesca Bleken**
Thermochemistry of Organic Reactions in Microporous Oxides by Atomistic Simulations: Benchmarking against Periodic B3LYP

14:05 **Oana Mihai**
Experimental Investigation of Lanthanum Ferrite Perovskite in Methane Partial Oxidation to Syngas

14:25 **Christoph Sprung**
Fundamental Investigation on SER (Sorbent Enhanced Reforming) Model Catalyst – Kinetic

14:45 **Closing Address**

Posters

P1 Georg Voß
The State of Promoters in Fischer-Tropsch Catalysts

P2 Christoph Sprung
Methane - the future fuel?!

P3 Ingvild Follesø
New Schiff Base Palladium Allyl Catalysts for Copolymerization of Norbornene

There is no dedicated poster session. The posters will be on display most of the conference, and can be discussed during the coffee breaks.