

## Thursday 20.11.2003

- 10:30 Registration and Coffee
- 11:00 Welcome
- 11:10 **Session 1: Supported metal catalysts**  
Session leader: Prof. Anders Holmen, NTNU
- 11:10 Thomas Løften, NTNU:  
"Isomerization of alkanes over Fe- and Mn-promoted sulfated zirconia"
- 11:35 Sølvi Storseter, NTNU:  
"Effect of water on Co-supported Fischer-Tropsch catalysts"
- 12:00 Florian Huber, NTNU/SINTEF:  
"Structure-activity relations in new water-gas shift catalysts from hydrotalcite precursors"
- 12:30 Lunch
- 13:30 **Session 2: Organometallic catalysis**  
Session leader: Prof. Jon Songstad, UiB
- 13:30 Morten Frøseth, UiO:  
"Heterocyclic carbenes in organometallic catalysis"
- 13:55 Jan Schönhaber, UiB:  
"DFT investigation of the Pd-catalyzed Suzuki-coupling of nitro-bromo-benzenes and nitrophenyl boronic acids"
- 14:20 Andreas C. Möller, SINTEF:  
"Sterically Demanding Bis[2-silylindenyl] Zr(IV) Dichlorides as Polymerisation Catalyst Precursors"
- 14:45 Richard Heyn, SINTEF:  
"Reactivity of Pt Cations with Simple Anions: A Measurement of Lewis Acidity?"
- 15:10 Kai Chung Sczeto, UiO:  
"New nanoporous organometallic structures with catalytically active Pt sites"
- 15:35 Coffee

**Thursday 20.11.2003, cont'd**

16:00 **Session 3: Silicates and related structures**

Session leader: Assoc. Prof. Unni Olsbye, UiO

16:00 Ørnulv Vistad, SINTEF/UiO:

"Combinatorial Hydrothermal Synthesis of Titanium Zinc Silicates"

16:25 Ole Swang, SINTEF:

"Microporous materials with a chiral pore structure: New beryllsilicates and possible zinc analogues"

16:50 Sindre Lillehaug, UiB:

"A theoretical study of the vibrational spectrum of CO probe molecules on reduced Cr/Silica sites"

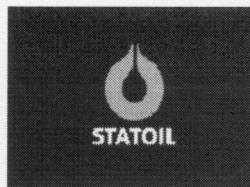
17:15 Erlend Bjørgum, NTNU:

"Oxidation/reduction behaviour of mixed oxides"

18:00 General assembly, NKS catalysis group

20:00 **Dinner**

**Our sponsors:**



**Norges Forskningsråd**

**Friday 21.11.2003**

**9:00 Session 4: Invited lecture**

Session leader: Prof. Stein Kolboe, UiO

**Jens K. Nørskov**, Center for Atomic-scale Materials Physics (CAMP),  
*Institut for Fysikk, Danmarks Tekniske Universitet:*  
**"Universality in Heterogeneous Catalysis"**

10:00 Coffee break

**10:25 Session 5: Methanol to hydrocarbons**

Session leader: Karl-Petter Lillerud, UiO

10:25 Unni Olsbye, UiO:

"MTH reaction: New Mechanistic insight from isotopic labeling experiments"

10:50: Bjørnar Arstad, UiO:

"A theoretical investigation of Propene and Isobutene eliminations from methylbenzenes."

11:15 Ole Swang, SINTEF:

"Quantum-chemical studies of the MTH reaction in acidic zeolites"

11:40 Coffee break

**12:00 Session 6: CO<sub>2</sub> reactions**

Session leader: Prof. Edd Blekkan, NTNU

12:00 Jon Songstad, UiB:

"Piperine as a catalyst in CO<sub>2</sub> reactions"

12:25 Richard Heyn, SINTEF:

"Catalytic Formation of Acrylic Acid from CO<sub>2</sub> and Ethene: Pieces of the Puzzle"

13:00 Lunch

**Organizing committee:**

Knut Børve, UiB

Vidar R. Jensen, UiB