

SEKTIONEN FOR UORGANISK KEMI  
KEMISK FORENING  
Universitetsparken 5  
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## SUK-MØDE

Torsdag den 2. marts 2006, kl. 17.30  
i auditorium 8, H.C.Ørsted Institutet

**Pablo Beato**  
Haldor Topsøe A/S

taler om

### **Molybdenum Oxide based Selective Oxidation Catalysts – from Solution to Solid State**

#### **Abstract**

Solid molybdenum oxide based catalysts are widely used for heterogeneous selective oxidation reactions, *e.g.* propene/propane to acrylic acid (~2.000.000 t/y). Commonly, the solid oxide catalyst has a multi metal composition, where molybdenum makes up the major part. In order to understand the physico-chemical properties of such complex oxide catalysts it is essential to follow the entire preparation routine of the catalyst from solution to the solid state - ideally under *in-situ* conditions. As polyoxometalates (POM's) are frequently used as precursors for mixed metal oxide catalysts, this talk will give some examples for the structural development of POM's from solution to the final solid oxide catalyst. The structural investigations are mainly based on *in-situ* Raman spectroscopic data, but are further supported by UV-vis, XRD and electron microscopic (SEM, TEM) data.

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Efter mødet er der spisning. Pris: 40,- pro persona, studerende: 20,- pro persona.

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