

Short Course

## **Catalysis in the Fine Chemicals Industry**

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### **PROGRAM**

Friday, 16. Mai 2008, 14:15 – 18:00

#### **Introduction: "Processes for fine chemicals: How important are ecological aspects? What can catalysis contribute?"**

- Fine chemicals
  - Definitions
  - Possibilities for waste prevention
- The position of fine chemicals / pharma companies
  - Examples: Rhodia and Novartis
  - Examples of non-catalytic process improvement
- Catalysis: Opportunities
- Problems in the development of catalytic processes
- Conclusions

#### **"Homogeneous C-C and C-N coupling reactions"**

- Background: Catalysts, ligands, substrates
- Case study: The search for new C-C and C-N coupling catalysts.
- Case studies: Application in the preparation of fine chemicals on the lab, pilot and production scale

Friday, 23. Mai 2008, 14:15 – 18:00

#### **"Heterogeneous chemo- und enantioselective hydrogenation"**

- Introduction
  - Homogeneous versus heterogeneous
  - Scope of the methodology
  - How can selectivity be tuned?
- Case studies

## "Enantioselective homogeneous hydrogenation"

Introduction

New results from academia with industrial relevance

Overview on commercial ligands

Various industrial case studies

"From Dream to Production Process: The search for a technical catalyst for the herbicide (S)-Metolachlor"

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