

**Tuesday Afternoon, Coronado B
Manchester Grand Hyatt San Diego
Mark Saeys, *Presiding*
Co-Sponsored by ENFL**

1:00 (219). Overview of Mechanism for Fischer-Tropsch Synthesis. Burton Davis

1:30 (220). Optimally performing Fischer-Tropsch catalysis. Ivo Filot

2:00 (221). Surface science investigations of the Fischer-Tropsch reaction on cobalt. Kees-Jan Weststrate

2:30 INTERMISSION

3:00 (222). Insights into CO activation and hydrocarbon chain growth in Fischer-Tropsch synthesis. Matthew Neurock

3:30 (223). Structural Sensitivity of Metal Catalysts for Syngas Conversion from First-Principles Theory. Wei-Xue Li

4:00 (224). Incorporating lateral interactions in the micro-kinetics of methanation over Fe(100). Eric van Steen

4:30 (225). Fe-based Catalysts for Fischer-Tropsch Process: Progress on Theoretical Study. Xiaodong Wen

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MCEC

Netherlands Center for
Multiscale Catalytic Energy Conversion

**251th National
ACS Meeting**

**Fischer-Tropsch Catalysis
From fundamentals to
industrial practice**

**Emiel Hensen
Mark Saeys**

Organizers

**Spring National ACS Meeting,
San Diego**

March 13-17, 2016

Wednesday Morning, Coronado B
Emiel Hensen, *Presiding*, Co-Sponsored by
ENFL

8:00 (485; 347 moved to Thu 1:30). Kinetic modeling of primary and secondary reactions in Fischer-Tropsch synthesis. Dragomir Bukur

8:30 (348). Size-selected sub nanometer cobalt clusters in Fischer-Tropsch reaction. Stefan Vajda

9:00 (349). Tracking down the loss of cobalt active sites at birth and during aging of a Fischer-Tropsch catalyst. Pascal Raybaud

9:30 (350). CO on CoCu: Induced Surface (Anti)segregation and Outcomes on CO Dissociation. Jean-Sabin McEwen

10:00 INTERMISSION

10:30 (351). Fischer-Tropsch synthesis over Co(0001) - an approach to the atomic scale by in situ STM. Joost Wintterlin

11:00 (484; 352 cancelled). Deactivation and Regeneration of Commercial Type Fischer-Tropsch Co-Catalysts. Erling Rytter

11:30 (353). Visualization of Compression and Spillover in a Coadsorbed System: Syngas on Cobalt Nanoparticles. E Charles Sykes

Wednesday Afternoon, Harbor Ballroom C
Jorge Gascon, *Presiding*, Co-Sponsored by
ENFL

1:00 (384). Combined transient kinetic and computational study of Co-catalyzed Fischer-Tropsch synthesis. Emiel Hensen

1:30 (385). Coverage-dependent mechanisms of CO hydrogenation over Co-based catalysts. Norbert Kruse

2:00 (386). Selectivity of C5+ in Co-based Fischer-Tropsch synthesis. Anders Holmen

2:30 (387). Impact of readsorption of olefins at the product slate in FT. Heiko Oosterbeek

3:00 INTERMISSION

3:30 (388). Influence of metal oxide promoters on Fischer Tropsch synthesis over Co. Alexis Bell

4:00 (389). Elucidating fundamental aspects of the cobalt-catalyzed Fischer-Tropsch Synthesis by using model catalyst systems and in situ spectroscopic characterization. Agustín Martínez

4:30 (390). Fischer-Tropsch synthesis catalysts: Strategies to enhance the sensitivity of in situ characterization techniques. Magnus Rønning

Thursday Morning, Coronado D
Joris Thybaut, *Presiding*; Co-Sponsored by ENFL

8:00 (442). MOF-mediated synthesis of highly active and stable catalysts for syngas chemistry. Jorge Gascon

8:30 (443). Fischer-Tropsch synthesis: Improved C5+ selectivity with pore-modified alumina. Gary Jacobs

9:00 (444). Selectivity Control in Fischer-Tropsch Synthesis for the Production of Liquid Fuels. Ye Wang

9:30 INTERMISSION

10:00 (445). Size and promoter effects in supported iron Fischer-Tropsch catalysts: Insights from experiment and theory. Krijn De Jong

10:30 (446). Insight into Iron-based Fischer-Tropsch Synthesis Reaction. Ding Ma

11:00 (447). Combating the Detrimental Effects of Water in Fe-based CO2 Hydrogenation Catalysts. Matthew Bradley

Thursday Afternoon, Coronado E
Burtron Davis, *Presiding*; Co-Sponsored by
ENFL

1:00 (484 shifted to Wednesday 11 am).

1:30 (347; moved from Wed 8:00). Catalyst structure and C-O activation during Fischer Tropsch synthesis: New ideas from computational catalysis. Mark Saeys

2:00 (486). From Micro kinetic Understanding to Industrial Reactor Simulation for Fischer Tropsch Synthesis. Joris Thybaut

2:30 (487). Effect of water over iron-based catalysts for Fischer Tropsch Synthesis using biomass-derived syngas. Zi Wang

2:45 (488). Kinetic Study and Multi-Objective Optimization of Fischer-Tropsch Synthesis Performance over Co-based Catalyst Using Evolutionary Optimization Algorithm. Nima Moazami