



Open workshop

EMerging TECHNOlogies for chemicals and fuels production

EMTECH



July 1st, 2014

Ghent University (Belgium)

Need for sustainable technologies for the production of chemicals/fuels

Nowadays, the industrialized world heavily relies on crude oil, a versatile but non-sustainable resource, to meet the continuously growing global energy demand. Crude oil is running out and its price is rising, therefore alternative routes exhibiting medium and long term perspectives for the production of the same fuels and chemicals, are becoming more and more economically attractive.

OCMOL is an FP7 NMP integrated project running from 1st September 2009 and is aiming at developing an innovative chemical route for natural gas valorization tailored to the size of stranded reservoirs. The corresponding process is based on oxidative coupling of methane followed by its subsequent oligomerization to liquids, see also <http://www.ocmol.eu>

On the initiative of OCMOL an open workshop, EMTECH, will be organized on 1st July 2014 in Ghent, Belgium, on emerging technologies for chemicals and fuels production. The aim of this public event is to bring together a critical mass in this field to assess recent developments and define tomorrow's challenges.

The OCMOL steering committee is convinced about the added value of integrating various European projects and networks into a single, public event to attract more scientific as well as public

attention. Contributions are confirmed from EU projects, such as NEXT-GTL, CARENA, CASCATBEL, BIO-GO and FASTCARD as well as from the ERIC and ENMIX institutes. A joint EU scientific event will provide also a unique opportunity for interested scientists to gain insight into the knowledge generated within the framework of the above initiatives and stay on top of the latest trends in the area of chemicals and fuels production.

EMTECH fee and registration: 100 €

The registration fee covers the workshop attendance as well as the workshop dinner. To register please download the registration form from the OCMOL website:

<http://www.ocmol.eu>

or the EMTECH website :
http://users.ugent.be/~valexia/index_files/Registration.htm

In case you wish to present your poster, you can find the template at the latter URL. Please send the completed form no later than **1st June 2014** to

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Workshop Programme:

Lectures will be given by the coordinators of several European initiatives, in particular OCMOL, NEXT-GTL, CARENA, BIO-GO, FASTCARD and CASCATBEL projects as well as the ERIC and ENMIX institutes.

Introduction

OCMOL

A green innovative chemical route for the valorization of stranded natural gas

ENMIX & FASTCARD

ENMIX A.I.S.B.L. and FastCard - How are they connected?

ERIC & NEXT GTL

Catalysis opportunities to shape the future of sustainable energy and chemical production: main achievements from NEXT-GTL EU project and the role of ERIC aisbl to promote collaborations in this field

BIO-GO

BIO-GO: Catalytic Partial Oxidation of Bio Gas and Reforming of Pyrolysis Oil (Bio Oil) for an Autothermal Synthesis Gas Production and Conversion into Fuels

CARENA

Catalytic Membrane Reactors for Alkane

Valorisation ; from Membrane to Process

CASCATBEL

CASCATBEL project : from lignocellulose to advanced biofuels through cascade coupling of catalytic deoxygenation steps

Venue:

The workshop is organized at Technologiepark (Campus Ardoyen) in Zwijnaarde, which is located relatively near to the Sint Pieters train station as well as to the important highways around Ghent. Please refer to the [laboratory website](http://www.ardoyen.be/ardoyenmap/index.html) to reach Technologiepark. Magnel Auditorium on the 1st floor of the A904 building will serve as host for the event. A map indicating the building 904 can be found at <http://www.ardoyen.be/ardoyenmap/index.html>

Recommended hotels are in between Technologiepark and the city centre, e.g.,

Chalet de Maalte

<http://www.chaletdemaalte.be/>

Orion Hotel

<http://www.hotel-orion.be/YGlobal/>

NH Gent Sint Pieters

<http://www.nh-hotels.com/nh/en/hotels/belgium/ghent/nh-gent-sint-pieters.html>

Best Western Hotel Chamade

<http://www.chamade.be/>

The EMTECH workshop on EMERGING TECHNOLOGIES for chemicals and fuels production is organised by

Prof. Guy B. Marin and Prof. Joris W. Thybaut from Ghent University,

Dr. Claude Mirodatos from IRCE Lyon,

Prof. Gabrielle Centi from University of Messina,

Prof. Elias Klemm from Stuttgart University

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