

# 3<sup>rd</sup> Workshop on Fats and Oils as Renewable Feedstock for the Chemical Industry

March 14 – 16, 2010  
Emden, Germany

## Scientific Programme

### Sunday, March 14, 2010

#### 15.30 Welcome and Opening

16.00 – 16.30 **Thomas Müller-Kirschbaum**, Henkel, Germany  
Renewable raw materials for the laundry and home care sector (M)

16.30 – 17.00 **Alexander Steinbüchel**, University of Münster, Germany  
Peculiarities of microorganisms for synthesis and production of designed lipids (M)

17.00 – 17.30 **Juan Carlos Ronda**, University of Tarragona, Spain  
Vegetable oils as platform chemicals for polymer synthesis (M)

17.30 – 17.50 **Frank Gunstone**, University of St. Andrews, UK  
Supplies of Oils and Fats for Non-Food Purposes (D)

#### 17.50 – 20.30 Poster session and Opening Mixer

### Monday, March 15, 2010

9.00 – 9.30 **W. Roy Jackson**, Monash University, Australia  
Ruthenium-catalysed cross-coupling of vegetable oils with symmetrical alkenes and conversion of the products into diesters and aminoesters in tandem reaction sequences (M)

9.30 – 10.00 **Xiaowei Miao, Cédric Fischmeister, Christian Bruneau, Pierre H. Dixneuf**, University of Rennes, France  
Ruthenium catalysts: the providers of added value to plant oils (M)

10.00 – 10.30 **Richard Pederson**, Materia, USA  
Synthesis of  $\alpha$ -olefins from seed oils (M)

10.30 – 11.00 Coffee break

11.00 – 11.30 **Michael A. R. Meier**, University of Potsdam, Germany  
Metathesis and other efficient (catalytic) approaches to renewable monomers and polymers (M)

11.30 – 11.50 **Patrice A. Fokou**, University of Applied Sciences, Emden, Germany, **Michael A. R. Meier**, University of Potsdam, Germany  
Controlling olefin isomerization during olefin metathesis with fatty acid derivatives (D)

11.50 – 12.10 **Ursula Biermann**, University of Oldenburg, **Jürgen O. Metzger**, University of Oldenburg and *abiosus* e.V., **Michael A. R. Meier**, University of Potsdam, Germany  
Acyclic triene metathesis oligo- and polymerization of high oleic sun flower oil (D)

12.10 – 12.30 **Yann RAOUL**, SOFIPROTEOL, Paris, France  
Oleochemical uses of oils and biodiesel derived products (D)

12.30 – 14.00 Lunch break

14.00 – 14.30 **Ulrich Schörken**, Cognis, Germany  
Innovative products from renewables – Opportunities in the field of lipid biotechnology (M)

14.30 – 14.50 Sabine Huf, Wenke Wagner, Thomas Hirth, Steffen Rupp, **Susanne Zibek**, Fraunhofer IGB, Stuttgart, Germany  
Optimization of 1,18-octadecenedioic acid synthesis via biotransformation by the use of *Candida tropicalis* (D)

14.50 -15.10 Simon Strompen, Dennis Kaufhold, Carolin Korupp, Jakob Müller, Andreas Liese, **Lutz Hilterhaus**, Hamburg University of Technology, Germany  
Engineering aspects of polyol biotransformations (D)

15.10 – 15.30 **Karsten Lange**, B. Jakob, H.J. Altenbach, S. Nandi, R. Ihizane, M.P. Schneider, Universität Wuppertal, Wuppertal, Germany  
Novel emulsifiers, thickeners and antioxidants based on hydroxy carboxylic acids – recent developments (D)

15.30 – 16.00 Coffee break

16.00 – 16.30 **Mark Rüschen-Klaas**, Romy Wahlandt, Tamas Vari, University of Applied Sciences, Neubrandenburg, Germany  
Catalytic mono-functionalization of triacylglycerols (M)

16.30 – 16.50 **Hans J. Schäfer**, Kim E. Augustin, Claus Rüdiger, Organisch-Chemisches Institut der Universität, Münster, Germany  
Alkyne fatty acids. -Preparation, reactions, products (D)

16.50 – 17.10 **Angela K. Köckritz**, A. Janz, Andreas Martin, Leibniz-Institut für Katalyse e. V. an der Universität Rostock, Rostock, Germany  
Gold-catalyzed aerobic cleavage of methyl 9,10-dihydroxystearate (D)

17.10 – 17.40 **Daniel Pioch**, Anh Thoai Nguyen, Clement Lansalot-Matras, CIRAD, Montpellier, Annie Finiels, Claude Moreau, Ecole Nationale Supérieure de Chimie de Montpellier, France  
Addition of C1- C8 alcohols to the fatty acid ester C=C double bond under heterogeneous catalytic conditions (M)

17.40 – 18.00 **Louis Daniel**, A. R. Ardiyanti, B. Schuur, R. Manurung, A.A. Broekhuis, and H. J. Heeres, University of Groningen, The Netherlands  
Synthesis and properties of highly branched jatropha oil derivatives (D)

19.30 Conference Dinner Upstalsboom Parkhotel

## Tuesday, March 16, 2009

9.00 – 9.30 **Patrick Borg**, Bernard Pees, Frederic Malet  
ARKEMA, Serquigny, France  
From castor oil to a range of renewable polyamides. (M)

9.30 – 10.00 **Stefan Mecking**, Dorothee Quinzler, Cecile Bouilhac, Anna Osichow, Christoph Dürr  
University of Konstanz, Germany  
Thermoplastic polymers from renewable resources via entirely chemical routes (M)

10.00 – 10.30 **Richard Hoogenboom**, Eindhoven University of Technology, The Netherlands, Ulrich S. Schubert, Friedrich-Schiller-University Jena, Germany  
Well-defined soy-based poly(2-oxazoline)s: More than just renewable (M)

10.30 – 10.50 **Hynek Benes**, Institute of Macromolecular Chemistry AS CR, Tomas Vlcek SYNPO a.s., Renata Cerna, Faculty of Science, Charles University in Prague, Czech Republic  
Polyurethanes with bio-based and recycled components (D)

10.50 – 11.20 Coffee Break

11.20 – 11.50 Francois Jerome, **Joel Barrault**, Laboratoire de catalyse en Chimie Organique, Poitiers, France  
Glycerol as a sustainable C3 platform: contribution of 'heterogeneous' catalysis (M)

11.50 – 12.10 **Andreas Martin**, Manfred Richter, Leibniz-Institut für Katalyse e.V, Rostock, Germany  
Glycerol etherification to dimers using basic and acidic catalysts (D)

12.10 – 12.30 **Rolf Blaauw**, Frits van der Klis, Willem Vogelzang, Marinus van den Hoorn, Daan van Es, Jacco van Haveren, Wageningen UR Food & Biobased Research, Business Unit Biobased Products, Wageningen, The Netherlands  
Oxidative decarboxylation of unsaturated fatty acids (D)

12.30 Poster Award and Closing Remarks

(M) Main Lecture 30 min including discussion (D) Discussion Lecture 20 min including discussion