

## Agenda Open House October 18, 2018

**10:15 – 10:45     Registration**

**10:45 – 11:00     Welcome by Prof. Dr. Gunther Kolb**

*Head of Energy and Chemical Technology Division*

**11:00 – 11:30     Dr. Patrick Löb**

*Deputy Head of Energy and Chemical Technology Division*

### ***“Recent advances in Flow Chemistry”***

**11:30 – 12:10     Introduction to the Lab Stations**

- *Continuous electroorganic synthesis using the example of the Kolbe electrolysis of fatty acids to synthesize hydrocarbons*
- *Photochemical isomerization of stilbene including NMR and IR on-line analysis*
- *Continuous polymerization process using micro- and milli-structured reactors exemplified by the emulgator free polymerization of methyl methacrylate to obtain polymer particles in the size range of 200 nm*
- *Continuous Grignard reagent synthesis and Grignard reaction exemplified by the synthesis of diphenylmethanol, an intermediate in API synthesis*
- *Continuous flow production of functional ethyl cellulose particles by a modular system*
- *Size-controlled continuous synthesis of magnetic iron oxide nanoparticles including downstream processing*
- *Continuous synthesis of inorganic nanoparticles: Core/shell quantum dots, real-time process analysis*
- *BIOGO – Conversion of pyrolysis oil to synthetic gasoline via synthesis gas and methanol*

**12:10 – 13:00     Networking Lunch**

*Safety Instructions*

**13:30 – 17:00     Visits to the Lab Stations - Discussions - Coffee**