

The 8th Cologne Process Engineering Conference will be held on July 01, 2016

Venue: TH Köln, Hörsaal 14

This year, presentations are related to **new developments in surface technology** and correspond to one of the five conference topics:

- A) Industrial Scale Processing Methods for Creation of Functional Surfaces
- B) Use of Functional Surfaces in Reaction Technology
- C) Negative Surface Effects and How to Avoid (e.g. Fouling, Autocatalysis)
- D) Optimizing Boundary Surfaces for Heat-/ Material-Transfer
- E) Surface Structures for Electrochemical and Energy Storage Applications

Furthermore, there will be a poster presentation covering the different fields of activity of the Institute of Chemical Process Engineering and Plant Design

Conference Program		Time
C. Özdemir	New Developments of Nano-based Catalysis in Chemical Synthesis	09:00
S. Frenzen	New surface structures for oil/water separation with focus on the hot pulling process and its scale up	09:30
M. Hülsmann	Carbon nanomaterial based heatable surfaces and their applications	10:00
	Coffee break & Poster session	10:30
E. Rädlein TU Ilmenau	Plenary Lecture: Glass and crystalline phases: 1. Glass ceramic route to produce fine powders for electromagnetic shielding, 2. Photostructuring glass, 3. Crystalline reaction products on glass surfaces – Unwanted? Unavoidable? Tolerable?	11:00
G. Komorek	Smart glass – Electrochromic coatings on glass for shiftable dimming and darkening	11:45
Kartal, Sil, Avsar, Kirarslan, Bidiler	Poster Presentations	12:15
	Lunch & Poster session	13:00
L. Frieler	The influence of surfaces and materials on fouling in heat exchangers used in food processing	14:00
N. Hiester mann	New developments in antifouling coatings	14:30
	Coffee break & Poster session	15:00
A. Speier	A new opportunity in flue gas treatment for CO ₂ capture	15:30
D. Gliem	Methods to avoid surface crack formation due to bad surface quality	16:00
	Poster award	16:30
	End of Conference	17:00

A module of the Cologne
Process Engineering
master program