

Membranes for liquid separations EMS Summer School 2013

Essen, July 22nd-26th, 2013



www.ems-essen2013.de

Time	Monday 22.07.
10:00-13:30	Registration
13:00-14:30	Lunch
14:30-14:45	Opening ceremony
14:45-15:45	Kätzel, U. Merck, Darmstadt, Germany <i>Process development of membrane separations in the pharmaceutical & chemical industry</i>
15:45-16:45	Luque, S. University of Oviedo, Spain <i>Industrial applications of membranes: process streams and effluent treatment</i>
16:45-17:00	Coffee break
17:00-18:00	Flemming, H.-C. Universität Duisburg-Essen, Germany <i>Biofilms and membranes</i>
18:00-20:00	Poster session
20:00	Dinner

Time	Tuesday 23.07.
9:00-10:00	Ansorge, W. Membrana, Wuppertal, Germany <i>Industrial development and production of polymer membranes</i>
10:00-11:00	Peinemann, K. V. KAUST, Thuwal, Saudi-Arabia <i>Emerging membrane materials: from self-assembled to biomimetic structures</i>
11:00-11:30	Coffee break
11:30-12:30	Vankelecom, I. Catholic University of Leuven, Belgium <i>Mixed matrix membranes</i>
12:30-13:30	Bettermann, I. CUT, Erkrath, Germany <i>Design and construction of membrane modules – an application-oriented overview</i>
13:30-15:00	Lunch
15:00-16:00	Kreis, P. Evonik, Marl, Germany <i>Hybrid membrane processes with "conventional" thermal separations</i>
16:00-17:00	Livingston, A. Imperial College, London, U.K. <i>Hybrid membrane processes with catalysis</i>
17:00-17:15	Coffee break
17:15-18:15	Kujawski, W. Nicolaus Kopernikus University, Torun, Poland <i>Pervaporation & membrane distillation</i>
18:15-19:00	Free Time
19:00	Dinner

Time	Wednesday 24.07.
9:00-10:00	Panglich, S. Inge/BASF, Greifenberg, Germany <i>Water purification with ultrafiltration</i>
10:00-11:00	Lipnizki, J. Lanxess, Leverkusen/Bitterfeld, Germany <i>Reverse osmosis system design</i>
11:00-11:30	Coffee break
11:30-12:30	Freger, V. Technion, Haifa, Israel <i>Structure of and transport through reverse osmosis and nanofiltration membranes</i>
12:30-13:30	Yaroshchuk, A. ICREA, Barcelona, Spain <i>Towards advanced engineering model of pressure-driven and osmotic membrane processes in multi-ion solutions</i>
13:30-15:00	Lunch
15:00-20:00	Excursion
20:00	Special Dinner

Time	Thursday 25.07.
9:00-10:00	Crespo, J. Universidad Nova de Lisboa, Portugal <i>Engineering with membranes for bioprocessing</i>
10:00-11:00	Thom, V. Sartorius, Göttingen, Germany <i>Membrane based virus clearance & virus harvest</i>
11:00-11:30	Coffee break
11:30-12:30	Wickramasinghe, R. University of Arkansas; Fayetteville, USA <i>Membrane processes for biorenewables</i>
12:30-13:30	Ulbricht, M. Universität Duisburg-Essen, Germany <i>Functionalized membranes for improved process performance</i>
13:30-15:00	Lunch
15:00-16:00	Special lecture Strathmann, H. Universität Stuttgart, Germany <i>Random walk through membrane science from artificial kidneys and water desalination to ion-flow batteries</i>
16:00-17:00	Poster awards Closing ceremony
17:00-19:00	Free Time
19:00	Dinner

Friday 26.07.	Social day
---------------	------------

09:45 meeting in front of the lecture hall

10:30-12:30 guided tour UNESCO world heritage Zeche Zollverein

12:30-14:00 lunch @ Zollverein

14:00 bus transfer to campus and central train station

