

PROGRAM “WORKING GROUP ADSORPTION”

IUTA, DUISBURG, 07.11.2022

Time	
09.00 – 09.10	Welcome
09.10 – 10.40	Session “Characterisation & Thermodynamics”
09.10 – 09.40	<i>C. Bläker, V. Mauer, C. Pasel, D. Bathen, U Duisburg-Essen & IUTA</i> Characterisation of adsorbents with volumetric-calorimetric methods
09.40 – 10.10	<i>C. Schlumberger, L. Sandner, M. Thommes, FAU Erlangen</i> Reliable Surface Area Assessment of Solvated Nanoporous Materials by NMR Relaxometry
10.10 – 10.40	<i>C. Heiduk, S. Scholl, TU Braunschweig</i> Determination of adsorption isotherms in self-packed columns using the extended Elution by Characteristic Point method
10.40 – 11.10	COFFEE BREAK
11.10 – 12.40	Session “Industrial Processes”
11.10 – 11.40	<i>G. Salazar-Duarte, C. Voss, Linde AG, Pullach</i> The contribution of the adsorptive pre-purifier unit in reducing the energy requirement of world scale air separation units
11.40 – 12.10	<i>A. Marcinek, J. Guderian, FH Münster</i> Scale-up analysis of a twin-bed PSA pilot plant
12.10 – 12.40	<i>V. Chowanietz, E. Hallbauer, Mann+Hummel, GmbH, Himmelskron</i> Protecting Fuel Cells: Development of Cathode Air Filters for relevant Application Environments
12.40 – 13.40	LUNCH BREAK
13.40 – 15.10	Session “New Developments in Adsorption Technology”
13.40 – 14.10	<i>V. Bon, M. Maliuta, I. Senkovska, S. Kaskel, TU Dresden</i> On the advantage of flexibility in MOFs for CO ₂ /CH ₄ separation processes
14.10 – 14.40	<i>S. Eder, M. Thommes, FAU Erlangen</i> Aspects of Gas Storage: Effect of Confinement on Supercritical Adsorption Behavior
14.40 – 15.10	<i>M. Roehnert, C. Pasel, C. Bläker, D. Bathen, U Duisburg-Essen & IUTA</i> Binary adsorption of light hydrocarbons on zeolites at low temperatures
15.10 – 15.15	Closing Remarks
15.30 – 16.30	Internal Meeting of Working Group “Adsorption”