

Thursday, May 14

8.45-9.00	Opening Address	
	<i>Chair: P. Llewellyn</i>	
9.00-9.55	Dongyuan Zhao (Plenary Lecture) Large-Scale Synthesis and Application of Ordered Mesoporous Carbon Materials	1
9.55-10.20	A. Patti, J.E. Magee and <u>F.R. Siperstein</u> Modelling Surfactant Templated Mesoporous Materials	2
10.20-10.45	Break	
	<i>Chair: B. Gil</i>	
10.45-11.10	<u>R. Sanz</u> , G. Calleja, A. Arencibia, E. Sanz CO₂ Adsorption Properties of Amine-Functionalized SBA-15 Mesoporous Silica	3
11.10-11.35	<u>A. Zukal</u> , I. Dominguez, J. Mayerová, P. V. Hung and J. Čejka Functionalization of delaminated zeolite ITQ-6 for the adsorption of carbon dioxide	4
11.35-12.00	<u>V. Zeleňák</u> , M. Badaničová, J. Čejka, A. Zukal, P. Llewellyn Hybrid Nanoporous Periodic Silica for Carbon Dioxide Capture	5
12.00-14.00	LUNCH	
	<i>Chair: G.D. Pirngruber</i>	
14.00-14.25	<u>A. Kondo</u> , H. Kajiro, H. Kanoh, K. Kaneko, Y. Hattori, F. Okino Carbon Dioxide Adsorption Kinetics of an Elastic Layer-Structured Metal Organic Framework of Vertical Adsorption Isotherm	6
14.25-14.50	<u>E. Bloch</u> , P.L. Llewellyn and V. Hornebecq Characterisation of Ag@SiO₂ and Au@SiO₂ nanocomposites by contrasting CO and CO₂ adsorption at 303K	7
14.50-15.15	<u>P.L. Llewellyn</u> , G. Maurin, S. Bourrelly, C. Serre, G. Férey, P.A Wright Can calorimetry help in the understanding gas adsorption in Metal Organic Frameworks ?	8
15.15 -15.40	Break	
	<i>Chair: R.G. Bell</i>	
15.40-16.05	<u>G.D. Pirngruber</u> , E. Jolimaitre, D. Marti, C. Serre, V. Guillermin, G. Férey, S. R. Miller, J. Mowat, P.A. Wright Breakthrough curves of CO₂/CH₄/CO Mixtures – MOFs vs. Zeolites vs. Activated Carbons	9
16.05-17.00	<u>F. Rodríguez-Reinoso</u> , A. Sepúlveda-Escribano, J. Silvestre-Albero, A. Wahby (Plenary Lecture) CO₂ Adsorption/Storage on Activated Carbon	10
17.30	Departure to Castle Mělník	

Friday, May 15

	<i>Chair: D. Kubička</i>	
9.00-9.55	P. Nachtigall (Plenary Lecture) CO₂ adsorption on single-, dual-, and multiple-cation sites in molecular sieves	11
9.55-10.20	A. Torrisi, C. Mellot-Draznieks, <u>R.G. Bell</u> Impact of Ligands on CO₂ Adsorption in Metal-Organic Frameworks: DFT Study of the Interaction of CO₂ with Functionalised Benzenes.	12
10.20-10.45	Break	
	<i>Chair: C. Laroche</i>	
10.45-11.10	<u>B. Gil</u> CO₂ as a probe for the dual cationic sites in alkali-exchanged ferrierites	13
11.10-11.35	<u>A. Pulido</u> , M. Rodríguez Delgado, C.O. Areán, P. Nachtigall Thermodynamics of CO₂ Adsorption on Acid Ferrierite: Computational and VTIR Spectroscopic Studies	14
11.35-12.00	<u>Vimont A.</u> , G. Clet, H. Leclerc, B. Moulin, P. Bazin, J.C. Lavalley, M. Daturi, T. Devic, C. Serre, G. Férey, S. Bourrelly, P. Llewellyn IR and Raman characterisation of Metal Organic Frameworks for CO₂ adsorption	15
12.00-14.00	LUNCH	
	<i>Chair: P. Nachtigall</i>	
14.00-14.25	M. Dan-Hardi, V. Guillermin, <u>C. Serre</u> , T. Devic, S. Miller, S. Gross, A. Vittadini, G. Férey New porous metal(IV) carboxylates	16
14.25-14.50	<u>S. Aguado</u> , D. Farrusseng Preparation of Metal Organic Frameworks on Porous Alumina for Separation Applications	17
14.50-15.15	<u>S. Couck</u> , G.V. Baron, J. Gascon, F. Kapteijn, J.F.M. Denayer Separation of CO₂ and CH₄ on Amino-Functionalized MIL-53	18
15.15 -15.40	Break	
	<i>Chair: C. Serre</i>	
15.40-16.05	P.D.C. Dietzel, <u>R. Blom</u> , L. Valenzano, S. Chavan, S. Bordiga The role of open metal sites when adsorbing CO₂ on metal-organic framework based adsorbents	19
16.05-17.00	S. Riffart (Plenary Lecture) Processes where CO₂ adsorption on porous solids may have potential interest	20
19.00	Farewell Party	

Saturday, May 16

	<i>Chair: A. Vimont</i>	
9.00-9.25	<u>U. Ravon</u> , S. Aguado, M. Tagliabue, C. Rizzo, D. Farrusseng Development of MOF Adsorbents for CO₂ Rejection from Natural Gas by PSA	21
9.25-9.50	<u>S. Bourrelly</u> , P.L. Llewellyn, C. Serre, T. Devic, G. Férey, A. Vimont, M. Daturi, J.-S. Chang, L. Hamon, G. de Weireld, G. Maurin Potential Use of MOF-Type Materials for CO₂ Removal: Case of Large Pores MIL-100 & MIL-101	22
9.50-10.15	<u>T. Devic</u> , C. Serre, P. Horcajada, S. Bourrelly, P. Llewellyn, G. Maurin, G. Clet, Y. Filinchuk, G. Férey Following the gas sorption in flexible MOFs by in-situ X-Ray diffraction	23
10.15-10.35	Break	
	<i>Chair: J. Čejka</i>	
10.35-11.15	<u>D. Kubička</u> , I. Kubičková (Keynote Lecture) Chemical utilization of carbon dioxide	24
11.15-11.20	Concluding Remarks	
11.30-12.30	LUNCH	