



Brazil Time (UTC-3)	Monday, Nov 30 th		
8:30 – 8:50	Opening Ceremony 13EBA		
9:00 – 9:45	Keynote 1 Paul Webley Temperature Swing Adsorption for CO ₂ Capture: A Perspective		
10:00 – 10:35	Plenary 1 Lev Sarkisov From Crystal to Column: multiscale strategies in the design of PSA processes for carbon capture		
10:45 – 11:10	Invited Speaker 1 Alexandre Ferreira Water harvesting by MOF based TSA processes	Invited Speaker 2 Dárley Carrijo Offshore Natural Gas Processing for Sustainable Oil & Gas Production	Invited Speaker 3 Everaldo dos Santos Expanded Bed Adsorption (EBA) – An important integrative technique in downstream processing
11:10 – 11:55	102 - Separation of ethylene from ethane with Metal-organic Frameworks	23 - Adsorption kinetics of asphaltenes in oil-water interfaces: effects of time, concentration, and heptol ratios	240 - Method for estimation the protein binding affinity using a robust Poisson-Boltzmann model for the adsorption of lysozyme in SBA-15
	182 - Optimization of Temperature Swing Adsorption Unit for Gas Dehydration	244 - Simulation of high-pressure sour natural gas adsorption on 13X zeolite	130 - Adsorption capacity evaluation of Beta zeolite as adsorbent for isoniazid.
	Q&A (PA)	289 - Adsorption of Polycyclic Aromatic Hydrocarbons from Heavy Naphthenic Oil: Evaluation of the Adsorbent Regenerability	Q&A (BIO)
11:55 – 12:10		Q&A (PG)	
14:00 – 14:15	Ametek do Brasil - Molecular Sieve Pilot Plants for Hydrocarbons Analysis Samuel Santos		
14:15 – 14:30	Networking Session with Acil & Weber Adsorption studies of porous and nonporous materials with various adsorptives in the entire temperature range from 77 K up to 323 K Mauro Weber		
14:30 – 14:55	Invited Speaker 4 Dilson Cardoso Synthesis of a zeolite for drying natural gas	Invited Speaker 5 Liliana Feris Adsorption of pharmaceutical compounds: challenges and perspectives	Invited Speaker 6 Dr Rodrigo Silveira Vieira Adsorption on bio-based materials
14:55 – 15:40	74 - CO ₂ adsorption on LTA zeolite with different particle dimensions	169 - Study of the effect of the HLD cations precursors un the removal of arsenic in aqueous solutions	127 - D-optimal experimental designs for adsorption isotherms
	223 - Application of In-situ X-ray Characterization Techniques in Zeolites: A Review	179 - Evaluation of salvinia auriculata as biosorbent in natura and dry in lead removal in water solutions	273 - Insights on the use of different gases at 77 K to assess the specific surface area of silica nanoporous materials
	302 - Synthesis of zeolites from hydrothermal solution reuse for CO ₂ capture	277 - Metals ions adsorption using synthesized 4A zeolite: effect of coal fly ash as silica and aluminum source	345 - Isotherm, kinetic and thermodynamic studies of Rhodamine B adsorption on coconut fiber-based adsorbents
15:40 – 15:55	Q&A (SCAC)	Q&A (AMB)	Q&A (Oral 6)
16:05 – 16:30	Posters 1 (PA & PG)		
16:30 – 17:15	Q&A Session (Posters PA)		Q&A Session (Posters PG)
17:15 – 17:50	Plenary 2 Fateme Rezaei Multicomponent Adsorptive Separation of CO ₂ , CO, CH ₄ , N ₂ , and H ₂ over Core-Shell Zeolite@MOF Composite Adsorbents		



Brazil Time (UTC-3)	Tuesday, Dec 1 st		
9:00 – 9:45	Keynote 2 Conchi Ania Combining gas adsorption and in situ XRD to describe unusual gas adsorption features of nanoporous materials		
10:00 – 10:35	Plenary 3 Tereza Bandosz Towards highly efficient gas desulfurization adsorbents: exploring porosity development in biosolid- based materials		
10:45 – 11:10	Invited Speaker 7 Lucas Meili Malachite Green adsorption onto Mytella falcata shells: preliminary studies	Invited Speaker 8 Nina Salau Computational intelligence applied to adsorption processes	Invited Speaker 9 E. Rodrigues-Castellón Assessing CO2 Adsorption on amino-functionalized mesocellular foams synthesized at different aging temperature
11:10 – 11:55	225 - Technological Bottlenecks in purification of monoclonal antibodies: prospective study and proposals for improved process design	108 - Optimization of an Aromatics Complex Including a Simulated Moving Bed for p-Xylene Production	72 - CO2 capture in carbon microfibers doped with nitrogen
	231 - Effect of temperature on oxidative degradation of bleached Hybrid (E. guineensis x E. oleifera) and African palm oil (Elaeis guineensis)	124 - Critical review of batch adsorption kinetic models: simplifications derived from the infinite bath model	275 - Characterization of mesoporous region by the scanning of the hysteresis loop in adsorption-desorption isotherms
	247 - Adsorption of a synthetic red food-colorant by circulating percolation of the solution through a packed-bed of wheat bran	207 - Studies of interaction potentials effects in the DFT approach for confined fluids	353 - Importance of the Polarity on Nanostructured Silica Materials to Optimize the Hydrolytic Condensation of Molecules Related to CO2 Adsorption
11:55 – 12:10	Q&A (PA)	Q&A (MSPA)	Q&A (SCAC)
14:00 – 14:15	Pensalab - On-line Monitoring of Trace H2O levels in Natural Gas at the Outlet of Molecular Sieve Dehydration Vessels Michael Downey		
14:30 – 14:55	Invited Speaker 10 Igor Bresolin Ultrapure monoclonal antibodies: hydrophobic interaction chromatography as polishing step in downstream processing	Invited Speaker 11 Sibele Pergher Molecular sieves: tunable porosity materials for adsorption and catalytic processes	Invited Speaker 12 César Abreu Simultaneous adsorption and desorption of CH4-CO2 to improve the storage capacity of natural gas
14:55 – 15:40	66 - Antibiotic removal from water using MgFe/layered double hydroxide as adsorbent	21 - Amino-functionalized graphene oxide anchored in charcoal matrix as adsorbent of textile wastewater: characterization and adsorption properties	75 - Thermodynamics of adsorption systems based on nanoporous carbons for methane storage and transportation
	135 - Rabbit polyclonal IgG purification using dye ligand affinity chromatography	22 - Removal of the Drimaren Red from aqueous solutions by adsorption onto amino-Fe3O4-functionalized multilayer Graphene Oxide	268 - Characterization of sorption kinetics of CO2 from N2-rich gas mixtures studied by breakthrough experiments on Zeolites
	148 - Evaluation of Elution conditions for purification of rabbit polyclonal antibodies using Protein A column	Q&A (SCAC)	286 - Carbon dioxide and water vapor adsorption on commercial and synthesized zeolites
15:40 – 15:55	Q&A (BIO)		Q&A (FA)
16:05 – 16:30	Posters 2 (BIO & SCAC)		
16:30 – 17:15	Q&A Session (Posters BIO)		Q&A Session (Posters SCAC)
17:15 – 17:50	Plenary 4: Guilherme Dotto Alternative adsorbents from wastes and its application for water decontamination		



Brazil Time (UTC-3)	Wednesday, Dec 2 nd	
9:00 – 9:45	Keynote 3 Mardônio Lucena New perspectives in carbon based materials characterization	
10:00 – 10:35	Plenary 5 Philip Llewellyn Using adsorption calorimetry to highlight the flexible behavior of Metal-Organic Frameworks	
10:45 – 11:10	Invited Speaker 13 Marcelo Castier Modeling Adsorption in Porous Solids with Equations of State for Confined Fluids	Invited Speaker 14 Marisa Beppu Influence of surface topography parameters on macromolecule deposition in LbL (layer-by-layer) processes
11:10 – 11:55	56 - Adsorption-induced deformation of porous solids. New approach for estimation of compressibility factor of microporous carbon adsorbents	47 - Organosolv lignin/Fe3O4 nanoparticles applied as textile dye adsorbent
	175 - Mesoporous metal-organic structure MIL-100 (Fe) as drug carrier	80 - Lipases Immobilization via Adsorption on Laboratory-Scale Synthesized Graphene Oxide Using Modified Hummers Method and Magnetic Nanoparticles
	288 - Assessment of Intracrystalline Diffusion for C8 Aromatics Isomers in Beta Zeolite using the ZLC Technique	209 - Evaluation of lipase A from Candida antarctica immobilization onto agroindustrial residue by Taguchi method
11:55 – 12:10	Q&A (FA)	Q&A (BIO)
14:00 – 14:15	Hidden Isochema - Measuring binary gas adsorption equilibria using the Integral Mass Balance (IMB) method Darren Broom	
14:30 – 14:55	Invited Speaker 15 Pedro Arroyo High Pressure H ₂ S Adsorption from Natural Gas Streams Using Zeolite NaY	Invited Speaker 16 Amaro Barreto Jr. Challenges to connect the effects of fluid confinement to the engineering of adsorption systems
14:55 – 15:40	92 - Regeneration of granular activated carbon using thermal technique	156 - Modeling adsorption microcalorimetry to estimate intraparticle diffusion rate constants: Parameter sensitivity analysis.
	115 - Multiscale Design Of A Pressure Swing Adsorption Process For Natural Gas Purification	246 - Separation of Methane and Carbon Dioxide mixtures by Adsorption on Calcite Nanopores via Molecular Dynamics
	254 - Perspectives on the synthesis, characterization, and application of hydroxyapatite-based sorbents for gaseous mercury removal	279 - Importance of Molecular Simulation for Interpreting Gas Adsorption by Porous Materials: The Case of the Ethane/Ethylene Mixture
15:40 – 15:55	Q&A (PA)	Q&A (MSPA)
16:05 – 16:30	Posters 3 (FA & MSPA)	
16:30 – 17:15	Q&A Session (Posters FA)	Q&A Session (Posters MSPA)
17:15 – 17:50	GENERAL MEETING - BAS (Brazilian Adsorption Society) FOUNDATION	
17:50 – 18:00		



Brazil Time (UTC-3)	Thursday, Dec 3 rd	
9:00 – 9:45	Keynote 4 Carlos Grande Cost-Based approach to design biogas upgrading systems	
10:00 – 10:35	Plenary 6 Reiner Staudt Investigation of Mixed Gas Sorption in Lab-Scale Experiment and Evaluation	
10:45 – 11:10	Invited Speaker 17 Regina Moreira Application of geopolymers in carbon capture and sequestration	Invited Speaker 18 Adriano Azzoni Development and evaluation of adsorbents for plasmid DNA purification
11:10 – 11:55	68 - Concentration of anthocyanins from Pinot Noir grape skins in alginate beads through the adsorption operation	119 - Enzyme immobilization by adsorption: CALB lipase onto magnetic nanoparticles, a heterogeneous biocatalyst.
	191 - High-Pressure Bulk CO ₂ Gas Adsorption on a Fixed Bed of Zeolite NaY: upward and downward flow comparison	269 - Adsorption of paracetamol from aqueous solutions on activated carbons
	354 - Competitive adsorption of pharmaceutical compounds onto nanoporous carbon fibres: effect of pH and ionic strength	
11:55 – 12:10	Q&A (BIO)	
11:55 – 12:10	Q&A (PA)	
14:30 – 14:55	Invited Speaker 19 Marcos Prauchner The use of H ₃ PO ₄ activated carbons as support in catalysts intended for the production of biofuels through the hefa route	Invited Speaker 20 César Santana Adsorption in Oil/Water Interfaces: Aspects of Kinetics and Equilibrium in Systems Containing Asphaltenes
14:55 – 15:40	26 - Iron oxide nanoparticles: design of the reactor for synthesis and characterization	267 - Breakthrough Curves of Propane at Different Relative Humidities
	264 - Trimodal hierarchical zeolite LTA for adsorption: a preliminary characterization study	280 - H ₂ O sorption on nanoporous carbons
15:40 – 15:55	Q&A (SCAC)	Q&A (FA)
16:05 – 16:30	Posters 4 (AMB)	
16:30 – 17:15	Q&A Session (Posters AMB)	
17:15 – 17:50	Closing Ceremony	
17:50 – 18:00		