SGRI 2018 | Sustainable Gas Research and Innovation
POSTERS PROGRAMME

INSTRUCTIONS FOR POSTER SESSIONS

- Our conference has 3 poster sessions during the coffee breaks.
- Choose which posters you would like to view beforehand, so you can enjoy refreshments and be on time for the first presentation.
- Gather around the screen so you can hear the speaker. Please be considerate of others.
- The sessions will follow the timetable below.
- Listen for the announcements.

10 min	Time for refreshments. Make you way to the screen of your first poster. Enjoy your coffee during the poster presentations.
15 min	Presentation of poster A
15 min	Presentation of poster B
5 min	A few more minutes of refreshments before going to the next technical session.

INSTRUCTIONS FOR PRESENTERS

- Posters A and B will be presented on the same screen in each session.
- Time is precious! Be ready to connect your notebook to the HDMI cable and start your presentation on time.
- Presentation of Poster B will follow immediately after Poster A.
- You may wish to engage with your audience later in the conference. This is a good chance to exchange business cards.

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SCREEN	TUE – 25/SEP – 11:00 POSTER SESSION 1	
	POSTER A	**POSTER B**
1	1.1.A Analysis of Directive 2009/31/CE and its consequences for adaptation in Brazilian regulation on unconventional geological CCS sites	1.1.B Research gaps in energy systems modeling: A review
2	1.2.A Emission Trading Schemes (ETS): perspectives after Paris	1.2.B The Environmental Impact Assessment and the Monitoring and Mitigation Program of Environmental Impacts Related to Offshore CO2 Storage and Transport
3	1.3.A Environmental Impact Assessment of CO2 Storage: an overview about site selection	1.3.B Proposal for environmental risk assessment of CO2 storage activities in salt caves in the Pre-salt layer of Brazil
4	1.4.A Main issues and debates of the Public Perception Group in Carbon Capture and Storage (CCS) linked to RCGI, Shell and USP	1.4.B Perspectives on approaching Public Perception of Carbon Capture and Storage in Brazil
5	1.5.A Effect of X-ZrO2 (X= Ce, La, Y and Sm) in Ni/MgAl2O4 catalyst spinel support applied to methane tri-reforming for syngas generation	1.5.B Hybrid solar-gas system for natural gas steam reforming
6	1.6.A Effect of Ni/Pd ratio on fine-tuning nanoparticle size for conversion of CO2 into CO	1.6.B CO2 conversion by reverse water gas shift reaction (RWGS) using nanocatalysts based on nickel supported in different solids prepared by magnetron sputtering methodology
7	1.7.A Use of high CO2 -tolerant microalgae for conversion of CO2 and CH4 to high value bioproducts	1.7.B Assessment of technologies for CO2 removal from synthesis gas
8	1.8.A Simulation and experiment of crystallization in cold finger of stearic acid as a phase change material in the adsorption of natural gas	1.8.B Design of Gas Adsorption Systems with Phase Change Materials by using Topology Optimisation Method
9	1.9.A Natural-gas based hybrid power systems for vessels	1.9.B Advanced systems for the use of mixed gas and diesel in internal combustion engines for methane emission mitigation

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SCREEN	TUE – 25/SEP – 15:55 POSTER SESSION 2	
	POSTER A	**POSTER B**
1	2.1.A Ownership and CCS activities in Brazil	2.1.B The German gas market and the energy transition. An overview
2	2.2.A The regulation of CO2 Capture and Storage (CCS) activities in Brazil	2.2.B Natural gas in the residential sector in Brazil
3	2.3.A The main environmental permitting requirements on CCS activities in Brazil	2.3.B Long-term liability on CCS activities in Brazil
4	2.4.A Diffused losses and concentrated revenues: why CCS activity doesn't grow in Brazil?	2.4.B Role of competent regulatory authority on CCS activities in Brazil
5	2.5.A Biochemical conversion of carbon dioxide to methanol	2.5.B Supported metal nanoparticles as catalyst for the prox reaction
6	2.6.A Synthesis gas production by methane trireforming	2.6.B Preparation of Structured Catalysts for Fischer-Tropsch Synthesis Reaction
7	2.7.A Modeling of the rotational compressible turbulent flow in a CO2 Compressor Rotor by using OpenFOAM	2.7.B Catalytic reduction of CO2 to alcohols
8	2.8.A An exploratory survey of the methods of automatic detection in underwater acoustic events	2.8.B Study of different models of bubble acoustic emission for passive acoustic monitoring of leakage detection
9	2.9.A Development of an advanced natural gas burner using the Flameless Oxidation concept	2.9.B Experimental setup for evaluation of supersonic separation phenomena – Test rig design and initial nozzle development

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SCREEN	WED – 26/SEP – 10:25 POSTER SESSION 3	
	POSTER A	**POSTER B**
1	3.1.A Comparative analysis between energy vulnerability and social vulnerability in the residential areas of the city of São Paulo	3.1.B Water heating technologies – A comparison between Brazil and USA markets
2	3.2.A Economic and Regulatory Barriers for the Operation of Natural Gas Thermoelectric Plant at the Base of Brazilian Electrical System	3.2.B Applications of Multiscale Molecular Modeling for Oil & Gas industry
3	3.3.A Impact of the copper content and the preparation method on the CuO/CeO2 catalysts for the CO-PROX reaction	3.3.B The use of Advanced Storage Systems for Voltage, Frequency and CO2 emission control in Ship Power Systems
4	3.4.A Cu/Zn/Zr catalysts to CO2 hydrogenation into methanol	3.4.B Synthesis of ethanol from the reduction of carbon dioxide under supercritical conditions
5	3.5.A Technical-economic comparison of PROX and Methanation processes for hydrogen production	3.5.B Synthesis and characterization of a cobalt-based supported graphene catalyst for Fischer-Tropsch synthesis
6	3.6.A Potential Products from CO2 Utilization	3.6.B Impacts and opportunities in the use of natural gas for cogeneration of electricity in food industry: A view of the American, Mexican and Brazilian market
7	3.7.A Influence of methane on algae growth	3.7.B Detection and quantification of CH4/CO2 gas bubbles
8	3.8.A Development of an acoustic monitoring device for underwater gas leakage – Controlled emission experimental set-up	3.8.B New approaches and contents for a Brazilian Atlas of Carbon Capture and Storage
9	3.9.A Expanding the use of NG in the energy mix of São Paulo state via SSLNG	3.9.B Comparative analysis between the markets for electric energy and natural gas