



20th Mitsui Bussan Forum

Carbon Capture and Storage (CCS) Process & Technologies for Brazilian Market

Presentation and Program

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Carbon Capture and Storage (CCS) Process & Technologies for Brazilian Market

Date

September 22nd

Local

Anfiteatro do Edificio Mario Covas
Escola Politécnica

Avenida Professor Gualberto, 03
Cidade Universitária - São Paulo/SP
CEP 05508-010

Introduction

This event aims at providing opportunities for students and researchers of USP and other institutions, especially for São Paulo State, to discuss issues related to CCS (Carbon Capture and Storage) process & technologies for the near future for Brazil. The CCS has been considered very important to avoid global warming for next decades and several technologies have been developed in several places of world.

The CCS process & technologies in Brazil is still immature, but because of the large amount of CO₂ in the oil&gas fields from Pre-Salt reservoirs, make necessary how to manage in the future because almost all CO₂ are reinjected to oil fields. So, there are several conceptions of the separation process, capture and storage of CO₂ in offshore. Some of them are innovative technologies.

Therefore, the event can be the place of discussion about all these CCS technologies & process for the future.

Proposal Objective

The main objective of this proposal is to promote knowledge and cooperation mode between several sectors (government, academia, private & public companies) related to natural gas technologies and each participant will show topics related to this theme and have planned to develop those technologies & utilizations.

This event also will promote presentations and participations from SP state energy secretariat, Petrobras, Shell, etc. to improve interest of Brazilian students and researchers of Brazil and some Japanese companies located in Brazil through the introduction of the proposal of developments of the technologies of CCS.

This proposal, therefore is to enable this event and disseminate cooperation between several sectors.

Event Program

08h30	Opening address –Director of the Research Centre for Gas Innovation, Secretary of Energy of Sao Paulo State, Director of EPUSP, President of Mitsui Trading.
09h00	State of art of CCS – Prof. Toru Sato (University of Tokyo)
	CCS in England - Imperial College-SGI
10h00	Coffee break
10h30	CCS projects in RCGI Research Center for Gas Innovation
11h00	CCS policies in the Shell – Alexandre Breda (Shell) and Camila Bradão (Shell)
11h30	Lunch
13h00	Policies and Economics for CCS in Brazil
13h20	The use of Salt Layer Cavern for CO ₂ separation
13h40	Offshore Equipment for gas separation
14h00	Laboratory of Sub and Supercritical Gases
14h20	Structured ceramic membrane for CH ₄ / CO ₂ separation
14h40	Coffee break
15h00	Compressor of CO ₂ in Supercritical State
15h20	Optimization Tools for Adsorption Tanks & CCS
15h40	CO ₂ Supersonic Compact Separator
16h00	Closing remarks and recommendation- Director of the Research Centre for Gas Innovation, Secretary of Energy of Sao Paulo State, Director of EPUSP, University of Tokyo, Imperial College, Representative of Mitsui do Brasil Foundation.