



# **WOC 1 Status**

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## **IGU WOC 1 Meeting**

Kota Kinabalu, Malaysia

5 September 2013

# Membership / WOC 1

- 71 members of 26 countries
- 22 attended last meeting in Rio



# Rio Meeting

R&D Workshop



Visit to Petrobras R&D Centre



Brazilian barbecue

Visit to the FSRU Exquisite

# 3<sup>rd</sup> Joint Committee Meeting of WOC 1 and PGC A

## ◆ Contents

- Themes for the WGC sessions of WOC 1
- Writing up of triennial report must start!



# Study Groups : Work Progress / WOC 1

## SG 1.1 : Technological advances in the E&P of natural gas



Mr. Adif Zulkifli, Petronas

- Presentations performed in Rio by study group members and invited speakers suggested key topics to be developed.

## SG 1.2 : Assessment of global reserves and resources



Dr. Mohammed Kaced, Sonatrach

- Structure of triennial report defined with sections on the assessment of the global potential for conventional gas, unconventional gas, gas flaring reduction and analysis of new trends, frontiers and exploratory areas.

## SG 1.3 : Gas Rent and Mineral Property Rights



Dr. Marcos Sugaya, Petrobras

- In Rio presentations on the fiscal systems of Angola, Tanzania, Mozambique, Kenya and Brazil were performed;
- Survey submitted to all IGU charter and associated members to verify their interests, results will be presented during this meeting;
- Key personnel contacted aiming at WGC panel session.

# WGC 2015 Sessions / WOC 1

## *Proposed sessions for WGC 2015:*

- ***Total of five or six oral panels***
  - *Two or three committee sessions (one on gas rent with the World Bank)*
  - *One or two expert forums*
  - *One strategic panel on unconventional gas (with PGC A)*
  - *One strategic panel or expert forum on gas flaring reduction (with the World Bank)*
- ***One interactive expert showcase or poster session***

# WGC 2015 Sessions / WOC 1

## Committee Session 1.2: Current and future E&P developments

Chaired by: John Smith (Company, Country) and Mary Smith (Company, Country)

### Objectives

- Investigate what kind of gas developments are expected to be materialized up to 2020, on a worldwide basis, for both (a) conventional and complex projects, either in harsh environments or remote areas and (b) unconventional developments, where extensive appraisal is a continuous condition for estimating economics properly.

### Topics of interest include

- Gas production in the Arctic regions;
- Monetization of stranded gas;
- Production of unconventional gas.

### Session form

- Presentation and discussion of case studies taken from the triennial report, performed by the members of SG 1.2, and complemented by invited guests and authors selected from the call for papers.

### Keywords

- Gas exploration, gas production, unconventional gas, gas monetization, harsh environments, remote areas, upstream developments

# WOC 1 Triennial Report

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Nevertheless, the exploratory success and the economical feasibility of the new production projects still face important challenges from both technical and environmental standpoints.  
 As an example, the industry will have to adapt itself to new standards of product quality, safety requirements and environmental restrictions, with much tougher controls for CO<sub>2</sub> emissions and for the disposal of residues. In addition to that, higher production costs can be expected as the new exploratory areas will be more difficult to develop than the previous ones.  
 In the current IGU triennium, WOC 1 will focus on technological advances for the exploration and production of natural gas, on the assessment of conventional and unconventional reserves and resources, and on the analysis of policies for mineral property rights and gas rent, having set up three study groups accordingly.

**Study groups**

- SG 1.1 Technological advances in natural gas E&P
- SG 1.2 Assessment of global reserves and resources
- SG 1.3 Natural gas rent and mineral property rights

**Meetings**

- 1st Meeting (Sapporo, 25-28 September 2012)
- 2nd Meeting (Rio de Janeiro, 19-21 February 2013)
- 3rd Meeting (Kota Kinabalu, 4-7 September 2013)

**Literature**

- WOC 1 Report 2006-2009
- WOC 1 Report 2009-2012
- WOC 1 Report 2012-2015 (WOC 1 members only)

For report samples from the previous trienniums

To exchange large report files and presentations

For provisional templates



# Meeting Schedule / WOC 1

## *Dates and locations*

1	2	3	4	5	6
Sapporo	Rio de Janeiro	Kota Kinabalu	Seoul	Barcelona	Yamburg (tbc)
25-28 Sep 2012	18-21 Feb 2013	3-6 Sep 2013	4-7 Feb 2014	23-26 Sep 2014	3-6 Feb 2015
<ul style="list-style-type: none"> <li>• Terms of reference</li> <li>• Study group themes, leaders and members</li> <li>• Distribution of tasks</li> </ul>	<ul style="list-style-type: none"> <li>• Integration of new members</li> <li>• Background knowledge sharing</li> <li>• Selection of topics and theses for further development</li> <li>• Detailment of individual tasks</li> </ul>	<ul style="list-style-type: none"> <li>• “Call for papers” preparation</li> <li>• Data mining and research gathering</li> <li>• Writing up of triennial report starts</li> </ul>	<ul style="list-style-type: none"> <li>• Triennial report development</li> <li>• Presentation of partial results</li> <li>• Best practices and reasoning</li> <li>• Articles for IGU Magazine</li> </ul>	<ul style="list-style-type: none"> <li>• Selection of best contributions for WGC</li> <li>• Invited speakers and chairmen</li> <li>• Triennial report conclusion</li> </ul>	<ul style="list-style-type: none"> <li>• Replacement of unconfirmed speakers and chairmen</li> <li>• Report presentation</li> <li>• WOC 1 in the 2015-2018 triennium</li> <li>• Final details</li> </ul>

***Terima kasih!***

