



WOC 1 Progress Report

Marcos de Freitas Sugaya

**WOC 1, PGC A & PGC C
Meeting**

Seoul, South Korea

11 March 2014

Membership / WOC 1

- ◆ *85 members from 26 countries*
- ◆ *27 delegates at last meeting in September 2014*



Tanjung Aru Resort & Spa, Kota Kinabalu

Study Groups : Work Progress / WOC 1

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



Mr. Adif Zulkifli, Petronas

- First complete draft of the triennial report by March 2014
- Strong focus on technologies that are critical to the production of unconventional gas in a safe and environmentally sound manner
- One committee session and one expert forum at WGC

SG 1.2 : Assessment of global reserves and resources



Dr. Mohammed Kaced, Sonatrach

- First complete draft of the triennial report by March 2014
- One committee session at WGC
- One strategic panel on gas flaring and venting at WGC with the World Bank
- One strategic panel on unconventional gas at WGC with PGC A

SG 1.3 : Gas rent and mineral property rights



Dr. Marcos Sugaya, Petrobras

- First complete draft of the triennial report by March 2014
- Fiscal regimes for the production of unconventional gas included
- Best practices available at www.igu.org/.../woc-1 for criticism
- One committee session and one expert forum at WGC

Triennial report

❖ Not just a report...

- Actions to be taken by the industry
- Best practices
- Introduction must be captivating enough to encourage the reader to proceed
- Reasoning must be properly developed to support conclusions
- All elements taken from other authors must make proper reference to them
- Figures and tables cannot be reproduced without written consent from their owners

World Gas Conference

- ❖ Call for papers already opened at <http://www.wgc2015.org/>
- ❖ All WOC 1 members are now encouraged to submit and procure contributions
- ❖ Best contributions will be selected in Madrid, 23–26 September 2014
 - Contributions from WOC 1 members will not be exposed to peers

Call for papers

Submit an abstract | WGC | Speaker Zone

https://www.eventsprom.net/cwcgroup/cm.esp?id=1040018&pageid=_3Z60NHU8X&showpage=newpaper&new=yes&cd=1488312376&eiscritp=K15UVFACF

Apps Portal Petrobras Itaú Personalité - p... Petrobras IGU Shale gas Trabalho Music Japan Portugal Viagens Golfe Receitas Dicionarios Outros Other bookmarks

Submit a New Abstract

Prior to submitting an abstract please ensure that your abstract relates to the topics called for by the IGU Committees, which are detailed on the "Topics" page.

We advise all authors to read the "Submission Guidelines" and the "Format Instructions" via the above menu options prior to submitting an abstract.

Official notification as whether an abstract has been accepted or not selected, will be emailed to the author whose contact details were provided, on 28 November 2014.

- PGCD-3: Challenges and opportunities of small scale LNG
- PGCD-4: Role of LNG in sustainability & environmental quality
- PGCE-1: Additional gas uses, how to go beyond gas-to-power
- PGCE-2: Effective gas marketing & lessons from industries
- PGCE-3: Public acceptance of natural gas projects
- PGCE-4: i-gas industry
- PGCF-1: Global Partnering in Energy Innovation
- PGCF-2: Gas Appliances & Infrastructure -Electric and Renew
- TF1-1: Battle for talent
- TF2-1: Role of natural gas in the power generation sector
- TF2-2: Relationship between coal & gas
- WOC1-1: Technological advances in gas E & P
- WOC1-2: Natural gas available everywhere? Global resources
- WOC1-3: Fiscal regimes for production of conv & uncony gas
- WOC1-4: Technologies for the monetisation of gas reserves
- WOC1-5: Gas on gas competition and upstream investment
- WOC2-1: What is ahead of us? General trends & perspectives
- WOC2-2: Innovations & new technologies: can UGS take/do more
- WOC3-1: New transmission projects
- WOC3-2: Pipeline integrity management systems

No topic selected

be selected for this type of presentation.
presentation types.

No possibility to submit to special panels

Keywords

To select multiple keywords hold down the <Ctrl> key and click on the words required.
Please choose a maximum of five keywords per abstract.

- ADVERTISE
- AGEING PIPELINES
- ALTERNATIVE USE OF PIPELINES
- ALTERNATIVE USES
- ARCTIC
- ARSENIC
- ASSET INTEGRITY MANAGEMENT
- ASSET MANAGEMENT
- AUDIENCE
- AWARENESS
- BANKABILITY
- BARRIERS
- BENEFITS

Strategic panel

Tuesday 2 June 2015, 15:15–16:45

Gas flaring and venting reduction

Chaired by Bjorn Hamso (World Bank) and Denis Krambeck Dinelli (IGU)

Objectives:

In spite of the considerable effort already developed to reduce the emissions of greenhouse gases derived from natural gas, substantial amounts are still flared or vented to the atmosphere for a number of reasons. These include insufficient infrastructure, poor access to the markets, inadequate planning, absence of political will and poor regulations. This strategic panel will describe the progress obtained so far, and will debate on the next steps to further reduce these emissions.

Topics of interest include:

- Regulatory and fiscal frameworks to incentivize flaring and venting reduction;
- Development of infrastructure **and technology** to reduce flaring and venting;
- Standards for gas flaring and venting reduction;
- Success stories and best practices.

Session form:

- A panel discussion preceded by introductory presentations from invited speakers and contributions selected from the call for papers.

Keywords:

Gas flaring, gas venting, global warming, greenhouse gases, climate change, gas efficiency

Room size: 1000

Strategic panel

Thursday 4 June 2015, 15:15–16:45

Unconventional gas

Chaired by Denis Krambeck Dinelli (Petrobras) and Maria Gabriela Rosello (Total)

Objectives:

It has been a few years since the unconventional gas revolution completely changed the North American supply picture, and many countries are now trying to reproduce it in other parts of the globe, as the economic and social benefits are significant and better understood now. This session will analyse the most important barriers that must be overcome to fully exploit these benefits, including infrastructure requirements, fiscal incentives, regulations, business models and best practices to improve performance and reduce the environmental footprint.

Topics of interest include:

- Reasons and innovations behind the unconventional gas revolution;
- Regulatory and fiscal frameworks to incentivise the production of unconventional gas;
- Production of unconventional gas in different countries;
- Environmental issues associated with the production of unconvensionals;
- Use of technology to improve production performance and efficiency;
- Case studies and best practices.

Session form:

- A panel discussion preceded by introductory presentations performed by invited speakers, complemented with outstanding contributions selected from the call for papers.

Keywords:

Unconventional gas, shale gas, tight gas, North America, production of unconventional gas, upstream technologies, regulatory framework, fiscal incentives, environmental footprint

Room size: 1000

Committee Session SG 1.1

Thursday 4 June 2015, 17:00–18:30

Technological advances in gas exploration and production

Chaired by Adif Zulkifli (Petronas)

Objectives:

The potential for the production of conventional and unconventional gas is extensive in many parts of the world, but price volatility and narrow margins are pushing companies to balance their investment portfolios. This session will debate on the technologies that could be a game changer for upstream business by improving production costs, efficiency and productivity.

Topics of interest include:

- Advances in seismic acquisition and imaging;
- Progress in drilling technology and hydraulic stimulation;
- Smart completions;
- Case studies on the use of technology to improve economic performance and energy efficiency;
- Improvements in gas processing;
- Technological advances in gas to LNG, gas to power and gas to chemicals.

Session form:

- Presentations performed by committee members, invited guests and selected from the call for papers.

Keywords:

Seismic, imaging technology, hydraulic stimulation, well productivity, geological survey, drilling technology, gas processing, FLNG, FGTL, subsea systems, smart completion.

Room size: 350

Expert forum SG 1.1

Friday 5 June 2015, 8:30–10:00

Technologies for the monetization of gas reserves

Chaired by Rashida Karim (Petronas)

Objectives:

This session will debate on the use of advanced technological options to monetize stranded gas reserves, including the production of gas at challenging conditions or difficult locations, and the use of technology transfer as a means to anticipate results and reduce costs.

Topics of interest include:

- Technologies to reduce capital expenditure and increase well productivity;
- Technologies for the production of unconventional gas;
- Liquefaction and conversion processes;
- FLNG, FGTL and other upstream concepts;
- Subsea to shore options;
- Sour gas, high CO₂ content, hydrates and gas processing technologies;
- Case studies taken from the Arctic, deep waters and unconventional reservoirs.

Session form:

Contributions from the call for papers and invited panelists from exploration, production and service companies

Keywords:

FLNG, GTL, monetization, remote gas, stranded gas, small fields, unconventional gas, CBM, hydrates

Room size: 250

Committee Session SG 1.2

Wednesday 3 June 2015, 8:30–10:00

Natural gas available everywhere? An assessment of global resources and reserves

Chaired by Denis Krambeck Dinelli (Petrobras) and Fernando Jorge Bado (Tenaris)

Objectives:

In the middle of the so called unconventional gas revolution, one of the most important challenges is the development of reliable estimates for both conventional and unconventional gas reserves and resources. This session aims to provide an updated global assessment for them, including the most important trends, uncertainties, opportunities and threats to the upstream segment of the gas industry.

Topics of interest include:

- ◆ Assessment of conventional and unconventional gas reserves and resources;
- ◆ Conditions for the successful development of unconventional resources;
- ◆ Exploratory hotspots and new frontiers for natural gas;
- ◆ Gas flaring reduction as a means to enhance the supply of gas.

Session form: Presentation and discussion of the triennial report, performed by the members of SG 1.2, complemented by invited guests and authors selected from the call for papers.

Keywords: Gas reserves, gas resources, unconventional gas, North American gas, shale and tight gas developments, new exploratory frontiers, gas flaring.

Room size: 350

Committee Session SG 1.3

Wednesday 3 June 2015, 17:00–18:30

Fiscal regimes for the production of gas

Chaired by Daniel Johnston (Consultant) and Marcos de Freitas Sugaya (Petrobras)

Objectives:

Gas projects have different characteristics when compared with their oil counterparts, so a distinctive treatment is required from regulators, government authorities and stakeholders.

Topics of interest include

- ◆ Regulations, business models and fiscal incentives for the production of conventional and unconventional gas;
- ◆ Reasons and causes for the unconventional gas revolution;
- ◆ Incentives for the production of gas at remote locations or challenging conditions;
- ◆ Fiscal regimes to sustain the production of gas in marginal, mature or tail end fields;
- ◆ Gas rent and production sharing.

Session form:

Presentation and discussion of case studies performed by invited speakers, committee members and authors selected from the call for papers.

Keywords:

Unconventional gas, upstream regulations, upstream taxation, fiscal systems, North America, gas rent, mineral property rights, gas producing countries, gas production costs, tail gas, marginal fields, mature fields, fiscal regimes, upstream taxation, tax allowances, upstream regulations.

Room size: 350

Expert forum SG 1.3

Thursday 4 June 2015, 8:30–10:00

Gas on gas competition and upstream investment

Chaired by Marcos de Freitas Sugaya (Petrobras)

Objectives:

Over the last years a significant growth has been observed in the use of hub pricing mechanisms in lieu of the traditional long term contracts indexed in oil, and this is transferring market risks to the portfolio of gas producers. Could this significantly affect new upstream investment? Hub pricing is not a synonym of cheaper gas, and in the long term consumers could meet a completely different scenario.

Topics of interest include

- ◆ Gas pricing mechanism background;
- ◆ Tendencies in gas pricing for upstream investments;
- ◆ Price requirements for the production of unconventional gas;
- ◆ Upstream costs and project financing;
- ◆ Case studies on the production of gas.

Session form:

Contributions selected from the call for papers and invited guests.

Keywords:

Spot market, long term contracts, upstream investment, bankability, hub pricing, oil indexation, upstream costs, local content

Room size: 250

Meeting Schedule / WOC 1

Dates and locations

1	2	3	4	5	6
Sapporo	Rio de Janeiro	Kota Kinabalu	Seoul	Madrid	Yamburg
25-28 September 2012	18-21 February 2013	4-7 September 2013	10-13 March 2014	23-26 September 2014	3-6 February 2015

감사합니다!

