

## **EXECUTIVE PLENARY SESSION**

**Working Together To Deliver Sustainable Growth: Innovative Teams and Technology Deployment (Part 1 – 1330-1530) and (Part 2 1600-1800)  
Monday 3 November, Hall 1**

### Executive Panelists:

Andrew Gould, Schlumberger  
Ladislav Paszkiewicz, Total  
Malcolm Brinded, Shell  
Tim A. Cejka, ExxonMobil  
Tony Hayward, BP

### Moderators:

Ali Al Jarwan, ADMA-OPCO  
Fareed Abdulla, ADCO

## **PANEL SESSION 1**

### **The Peak Oil Debate**

**0830-1200 hours, Tuesday, 4 November, Hall 1**

There has been much discussion and debate about when the world reach or will reach peak hydrocarbon production. To fully explore this interesting discussion, we need to approach the debate from a number of different perspectives:

- 1) Which is the most appropriate consideration: peak oil production or peak hydrocarbon (oil and gas) production?
  - 2) What is the impact of unconventional hydrocarbons on the peak-production discussion?
  - 3) What are the geographical peak-production timelines?
  - 4) If we have not already reached peak production, what effect, if any, will high oil and natural gas prices have on bringing peak production forward in time?
  - 5) How do we find the correct balance between accelerating production in the short term (for the benefit of the world economy) and supporting production over the long term (in the best interest of producing nations)?
- How accurate are the long-term consumption forecasts, and how much hydrocarbons do we really need to produce?

### Invited Panelists:

Christophe Ruehl, BP  
Rick Vierbuchen, ExxonMobil  
Waleed Al Mulhim, Saudi Aramco  
Yoshikazu Kobayashi, The Institute for Energy Economics

### Moderator:

Nansen Saleri, Quantum Reservoir Impact

**PANEL SESSION 2**  
**Technology Innovation**  
**0830-1200 hours, Tuesday, 4 November, Hall 2**

New technology and innovation will always be key ingredients for the successful development of oil and gas reserves. The extended high-activity cycle that our industry has been experiencing has contributed to the essential influx of new research and development efforts. This panel will provide a high-level overview of current technology development efforts while discussing the overall innovative process, from conceptualization to development and application. The vision for current and future commitments that will ensure maximum innovation in our industry will be discussed by stakeholders of this vital process. Applying technology, integration, and innovation to our oil and gas resources can enhance production far beyond our current imagination.

Invited Panelists:

Dalton Boutte, WesternGeco  
Mohamed Saggaf, Saudi Aramco  
Peter Mellbye, Statoil  
Steve May, ExxonMobil  
Vimal Shah, Halliburton

Moderator:

Zara Khatib, Shell E&P International

**PANEL SESSION 3**  
**Sustainability**  
**1400–1730 hours, Tuesday, 4 November, Hall 1**

Access to reliable energy has been and continues to be one of the key enablers of economic growth and human progress. As the world's economy grows and more and more people benefit from access to energy, the demands on our industry to supply that energy increase. In parallel, the world is now insisting that energy is supplied in a way that minimises the impact on the environment, the Earth's climate, and local communities. Exploiting the Earth's natural resources in a sustainable way is the one of the major challenges the industry faces.

There are a number of dimensions to this challenge:

- How do we see the energy demand and supply balance over the next 2–3 decades?
- As energy suppliers, how do we increase the efficiency of our business? In particular, how do we maximise the amount of recovery of hydrocarbons from existing accumulations?
- How do we minimise the environmental damage from our operations?
- How do we develop alongside communities—in a way that is sustainable—the new energy projects that the world needs?
- What are the emerging technologies for minimizing the emissions that are impacting the global climate?

- Will carbon management emerge as an important sector in our industry?
- What is the role of alternative and renewable energy to augment and sustain fossil fuels?

Invited Panelists:

Dave Binnie, BP  
Glenn Murray, ExxonMobil  
Habiba Al Marashi, Environmental Friends Society  
Jean-Michel Gires, Total  
Najib Zafrani, Shell E&P International  
Sultan Al Jaber, Masdar

Moderator:

Emmanuel Garland, Total

**PANEL SESSION 4**

**The Role of the Major Players in Building Production  
1400–1730 hours, Tuesday, 4 November, Hall 2**

For decades, the strong relationships that have existed between international oil companies (IOCs) and national oil companies (NOCs) seeking to develop oil and gas resources have been a major factor in spurring the economic development of many Eastern Hemisphere countries. Through the course of this development, the relationships have been consistently modified to reflect the host countries' ever-improving infrastructure and manpower capabilities.

Recently, there have been some trends that will shape the future landscape of the industry. Among these trends are: (1) the collaboration among NOCs, not only on a technical basis, but also in terms of access to resources; (2) the restrictions imposed by NOCs over IOCs to restrict access to resources; (3) the growing economic forces supporting NOCs' secure access to markets in exchange for access to resources; and (4) the evolution of NOCs into IOCs, including the NOCs' autonomous strategies for their respective governments.

This panel will discuss the different perspectives of the IOCs and NOCs and the roles each will play in the future development of resources.

Invited Panelists:

Frank Kemnetz, ExxonMobil  
Kamel Bennaceur, International Energy Agency  
Kjetil Tonstand, Statoil  
Steve Peacock, BP  
Tarmizi Munir, PETRONAS

## **PANEL SESSION 5**

### **Future Gas Development**

**0830-1200 hours, Wednesday, 5 November, Hall 1**

World gas reserves are on a par with reserves of oil. Nevertheless, in many countries gas usage has not realised its potential in the overall balance of energy consumption. The logistics of gas usage are inherently more complex and costly than for oil. Historically, gas developments have become viable through technological and business innovation. This has resulted in mature concepts to bridge the logistical gap between the gas deposits and the markets in a cost-effective, safe, and environmentally acceptable way, be it pipeline gas or liquefied natural gas.

There remain instances in which the economic development of gas resources is hard to grasp, e.g., very sour gas reserves. In other cases, resources are remote or relatively small, have significant other contaminants, or contain only few amounts of condensate and natural gas liquids.

The panel will discuss developments supporting the greater utilisation of gas that are driven by environmental concerns, energy-efficient gas applications, alternative usage of gas in the market, or the conversion of gas into other products.

#### Invited Panelists:

Chris Ball, Occidental

John Mills, Shell E&P International

Mohamed Sahoo, GASCO

#### Moderator:

Alison Goligher, Shell E&P International

## **PANEL SESSION 6**

### **Human Resources Development**

**0830-1200 hours, Wednesday, 5 November, Hall 2**

The petroleum industry requires a highly skilled work force that can deliver innovative solutions to meet future energy challenges. Of particular importance is the need to replenish the supply of critical technical skills and experience that is at risk of decline due to retirements and attrition. Industry must also consider the expectations and capabilities required of the next generation of technologists. Application of advanced technology will continue to be a key success factor, and the industry must attract and retain top-tier technologists to meet the difficult challenges ahead. Additionally, energy companies may wish to consider becoming more active in educating students and the public about the many positive aspects of pursuing a technical career in the petroleum industry. Secondary (high school) education has a key role in preparing students for future technology careers. Students have a tendency to shy away from technical studies,

and many myths about our industry abound. These factors can negatively affect students' decisions to consider a career in our industry. The panel will explore and provide their perspectives on these issues and provide insight into the challenges ahead to replenish the technical workforce.

Invited Panelists:

Darin Moss, Occidental  
Didier Charreton, Baker Hughes  
Leo Roodhart, 2009 SPE President  
Michael Ohadi, The Petroleum Institute  
Nabeel Al Jama, Saudi Aramco

Panel Moderators:

Badria Khalfan, ADMA-OPCO  
Clive Eckersley, NExT

**PANEL SESSION 7**

**Project Management in a Changing Contracting Environment  
1400–1730 hours, Wednesday, 5 November, Hall 1**

The growth rate in the last 3 years is progressing at a higher incremental level, reflecting the expansion of civil projects and the stretched demand on resources; raw materials; manufacturing plants; equipment; and talented professionals within engineering, procurement, and construction contracting firms and/or engineering consultancy firms.

On the other hand, demand on energy substantially increased and dictated the rehabilitation and expansion of existing facilities, plus a commitment on erecting new installations to cope with higher production capacities.

For the oil and gas industry, several mega and major projects—in addition to multiple brownfield activities—need to be delivered within the next 5 years, not only in the Gulf region but worldwide. This time crunch is changing the normal environment of project management.

The panel shall address new practices in the integration of resources and the adequacy of future project-management strategies, including how these practices and strategies are changing the contracts- and materials-procurement environment and the expectations of stakeholders.

Invited Panelists:

Ali Al Ajmi, Saudi Aramco  
Andrew Brown, Shell  
Aqeel Maddi, NPCC  
Christophe Virondaud, Technip  
Dave Clarkson, BP

## **PANEL SESSION 8**

### **New Frontiers Development and Emerging Producers**

**1400–1730 hours, Wednesday, 5 November, Hall 2**

The world's demand for hydrocarbons is expected to continue to grow well into the next decade. Stimulated by this high demand and the high prices of recent years the industry is exploring and producing new frontiers as well as seeing the emergence of many new independent energy companies. During this panel, we will discuss the potential role that both of these trends could have on the ability of the industry to meet the world's ever increasing demand for hydrocarbon by addressing the following themes:

Pushing the frontiers of technology and geography is enabling new hydrocarbon supplies to be brought to the market. The panel will discuss what are the key new emerging hydrocarbons plays that are going to deliver this incremental production? Deep water, new geographies, GTL's, CBM, sub-basalt, sub-salt, EOR technologies are all emerging as focus areas for the industry ... but where is the best place to invest the limited human and equipment capital to get the best results in the short-term?

Another new phenomena to be discussed is the rise of independent energy companies in all parts of the world. In particular these new independent energy companies have carved out a growing niche in the Middle East during the past decade. Although their business models differ – from those wholly-owned by governmental authorities and those with public shareholders – these companies are increasingly participating in high-profile ventures in both the upstream and downstream energy industry, which was previously dominated by national oil companies and the international super-majors.

There are many interesting topics to be explored, including ... what benefits will these independent energy companies bring to the industry? How will they operate alongside the national oil companies and the super-majors? Do independent energy companies need to reach a critical mass to be able to access the most promising opportunities? Can they be successful in all areas of the energy industry (exploration, drilling, refining, petrochemicals, electricity generation, etc.) or will they concentrate on areas with highest potential to capitalize on their strengths? How will those independent energy companies that are wholly or partially-owned by governmental authorities participate in the industry over the coming years?

#### Invited Panelists:

Ahmed Al Sayegh, Dolphin Energy  
Barclay Collins, Anadarco  
Fareed Salem, ConocoPhillips  
Peter Homek, Taqa  
Rashid Al Jarwan, Danagas

#### Moderator:

Casey Olson, Occidental

**PANEL SESSION 9**  
**The Changing Face of the Petrodollar**  
**0830-1200 hours, Thursday, 6 November, Hall 1**

With global oil production at 80 million B/D and the equivalent in gas production, the global circulation of energy-related money has been transformed over the last 4 decades.

The paradigm shift occurring as the emerging energy-consuming nations increase their proportion of the “petrodollar” flow will create a new dynamic in the financial and capital markets.

Oil and gas production sales generate 4 trillion USD in revenues annually. This money is used in a number of different ways that have in themselves a significant impact on the petrodollars in circulation and on national economies.

Petrodollars provided by the main consumer nations are reinvested in producing, exploring, and developing hydrocarbon reserves; they enable the development of infrastructure in the key exporting nations and provide a key role in the global financial markets.

As the balance of these uses and financial supplies change over the next 4 decades, so the impact to the global economy can change.

The panel will explore and provide their perspectives on these issues and provide insight into some of the challenges created by this changing dynamic.

Invited Panelists:

HE Sultan bin Nasser Al Suwaidi, Abu Dhabi Central Bank

HE Mohamed Omar Abdulla, Under Secretary Planning Department

Dalton Garris, The Petroleum Institute

Moderator:

Keith Gordon, Petrofac

**PANEL SESSION 10**  
**Technology Deployment in a Collaborative Environment**  
**0830-1200 hours, Thursday, 6 November, Hall 2**

Since the birth of our industry, new technology has always played a significant role in the constant improvement of our capabilities and results. Targets such as fewer dry holes, better rates of penetration, larger production rates, and a safer workplace that were originally tackled at the rigsite soon were being addressed in a more systematic manner at centralized locations by both E&P and service companies. After maintaining parallel and independent efforts for many years, our industry eventually adopted the current model whereby the responsibility for new technology development has shifted mostly to the integrated service companies sector. With the rise of independent and national oil company activity pursuing reservoirs of ever-increasing complexity, new technology requirements will continue to be even more specialized and localized.

The panel will discuss the specifics of the current technology deployment practices and

development effort, including the “who, what and, where” for ensuring that our industry is poised to deliver the technology requirements of the future.

Invited Panelists:

Al Riddle, Baker Hughes

Gilles Bitoun, Total

Joe Leone, Shell

Mohamed Badri, Schlumberger

Moderator:

Anass Al-Chalabi, Weatherford