

2013 International Conference



Rice Global E&C Forum
**Engineering &
Construction**

The Changing Engineering & Construction Market

**March 18 & 19, 2013
Paris, France**

www.forum.rice.edu

Forum VIP Banquet

Monday, March 18, 2013 | 6:00 – 10:30 PM
Salon Hoche, 9 Avenue Hoche, 75008 Paris

Featuring Ambassador Edward P. Djerejian
Founding Director, James A. Baker III Institute for Public Policy



Full Day Conference

Tuesday, March 19, 2013
Total Headquarters, Tour Coupole, 2 place Jean Millier, La Défense 6, F-92400 COURBEVOIE, France

Preliminary Agenda

- 7:45 AM** **Registration and Continental Breakfast**
- 8:30 AM** **Opening Remarks - JP Cheviere, RGF International Conference Chairman;**
Dr. Vicki Colvin, Vice Provost, Rice University
- 8:45 AM** **Yves-Louis Darricarrère, President, Production & Exploration, Total**
- 9:15 AM** **Presentation by Dominique Delsol, Senior Director, Transmar Consult Inc.**
- 9:30 AM** **Loïc des Déserts, Chairman & CEO, Doris Engineering**
- 10:10 AM** **Morning Networking Break**
- 10:50 AM** **Thierry Pilenko, Chairman & CEO, Technip**
- 11:30 AM** **Umberto Vergine, CEO, Saipem S.p.A.**
- 12:10 PM** **Lunch**
- 1:30 PM** **Gordon McManus, Senior Analyst, Wood Mackenzie**
- 2:10 PM** **Arnt Knudsen, Senior Vice President,**
Technology & Business Development Concrete Solutions, Kvaerner
- 2:50 PM** **Dr. Michael Economides, Professor of Chemical & Biomolecular Engineering,**
University of Houston
- 3:30 PM** **Afternoon Networking Break**
- 4:00 PM** **Tevin Vongvanich, President & CEO, PTT Exploration and Production**
Public Company Limited
- 4:40 PM** **Mark Peters, Vice President, Pennwell Publishing**
- 5:20 PM** **Closing Remarks - JP Cheviere, RGF International Conference Chairman**
- 5:30 PM** **End of Conference**

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REGISTRATION

Registration includes the evening reception and dinner banquet on Monday, March 18 as well as daylong program on Tuesday, March 19. The registration rate is \$800 USD / €600. Online registration will be open until March 11, 2013. Cancellations must be received at globalforum@rice.edu prior to midnight March 1, 2013. There is a \$50 service fee for cancellations prior to March 1. No cancellations accepted or refunds processed after March 1. Substitutes are welcome by sending notification to globalforum@rice.edu with substitute's name, company, job title, email and phone number BEFORE March 8. Purchase of Banquet only attendance is NOT available. To register, visit www.forum.rice.edu.

HOTEL ACCOMMODATIONS

CONFERENCE HOTEL

Hotel Pullman Paris La Defense

11 Avenue de l'Arche, PARIS LA Defense 6 CEDEX, 92081 PARIS LA DEFENSE.

A limited number of rooms are being held for the night of Monday, March 18 and are available on a first come first served basis. To make a reservation, call 1-800-221-4542 or (+33)8/25838080 and mention "Rice Global Forum" to receive the reduced rate of 240 Euros (approximately \$312 USD; classic single room, breakfast buffet included).

ALTERNATIVE OPTIONS

Please note - there is NO special rate or block of rooms at these two near by hotels. Reservations are subject to each hotel's availability and rates;

Sofitel Paris La Defense

33 voie des sculpteurs
92800 Puteaux
(+33)1/47764443

Hilton Paris La Defense

2 Place de la Defense
CNIT – BP 210
92053 La Defense Paris
(+33)1/46921010

GETTING AROUND

The main airport is Charles De Gaulle Airport located at 5 Rue du Cercle, 95700 Roissy-en-France, France. A round trip taxi ride from the airport to the La Defense area is approximately \$100-150 USD (€75-115).

The quick and easy way to travel around the city, as well as the best value, is the Metro. The Paris Metro has around 300 stations, their entrances marked by a big yellow "M," and 16 lines, numbered from 1 to 14, 3 bis and 7 bis. Each line has a color, which you'll find on signs in the stations and on all the RATP maps. Connections between lines make your journey easy to plan. For an idea of your journey time, allow an average of 2 minutes per station and add 5 minutes for each connection. A single metro ticket costs €1.70, and can be used for one journey, including all connections. The Hotel Pullman as well as Total Headquarters are located near Underground station Line 1 – Station La Defense Arche, Urban rail network RER A - Grande Arche and Tramway RER A - Grande Arche.

Another way to travel around is using taxis. There's a unique phone number for all the taxi firms: 01 45 30 30 30. Call this number to request a taxi from your location.

SPONSORSHIP OPPORTUNITIES

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Sponsor benefits include:

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2013 Rice Global E&C Forum

Monday March 18, 2013

Ambassador Edward P. Djerejian, Founding Director, James A. Baker III Institute for Public Policy

Two revolutions are currently reshaping the U.S. role in the Middle East. The first revolution, the so-called Arab Awakening, is a tectonic shift in the social contract between Arab governments and their people. The second revolution is economic, as the growing shale oil and gas industry fosters increased talk about an energy secure United States and western hemisphere with implications for U.S.-Middle East policy. Ambassador Edward Djerejian, founding director of the James A. Baker III Institute for Public Policy, will introduce and develop themes on these regional and global forces of change and discuss their geopolitical repercussions.

Tuesday March 19, 2013

Yves-Louis Darricarrère, President, Production & Exploration, Total

8:45 AM

“How the new global energy environment driven by the Shale Revolution will transform world markets and societies?”

Unconventional resources strongly impact the hydrocarbon resources inventory and are reshaping the energy market. Discoveries of new reserves from these sources are definitely reshaping the geographical distribution of worldwide hydrocarbon resources. Technology is developing fast and the impact on the E&P business and fuels markets is coming.

The huge potential for unconventional gas and shale gas is obvious. North America is way out front and the rest of the world in the exploration stage. For the rest of the world questions of economic viability exist due to many reasons: legislation, logistics, infrastructure and costs among them. How long will it take the rest of the world to catch up.

How will unconventional resources from the US, Canada, Australia and China affect the traditional market players like the Middle East?

Unconventional resource development globally will give a welcome addition of new opportunities for E&P companies and world supply to keep pace with a growing energy demand.

Loïc des Déserts, Chairman & CEO, Doris Engineering

9:30 AM

“New Challenges with Large Hydrocarbon Projects”

As hydrocarbon development projects become larger and larger, sound ways of executing these projects must be followed to maximize their level of success.

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These guidelines will refer to different type of issues, such as resources, interfaces, engineering and definition, project scheduling and costing, and contractual strategy.

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Thierry Pilenko, Chairman & CEO, Technip

10:50 AM

“The New Challenges of the Oil and Gas E&C Industry”

- The shale gas revolution
- The Arctic quest
- Deep water exploration
- The Floating LNG breakthrough
- Pre-salt discoveries of offshore Brazil
- East Africa new gas El Dorado
- Giant integrated refining-petrochemical complexes

The list of game changers for our industry has never been so long. As Chairman and CEO of Technip, one of the leading E&C companies, Thierry Pilenko will give us his view on all the new challenges that are reshaping our industry.

He will also tackle the importance of safety, the rising requirement for national content, the long term relationship between IOCs/NOCs and service companies, and the necessity to attract and retain the best talents in our industry.

A broad view to take our industry further.

Umberto Vergine, CEO, Saipem S.p.A.

11:30 AM

“Assets Development for Today’s Market Needs”

Today’s global oil & gas markets are evolving rapidly, mostly towards new contexts. New and often unconventional reserves found in new and difficult environments, new end-use markets, often new players, all pose substantial new requirements on our industry.

Over the last decade, Saipem has been at the forefront of developing an extensive and complex asset base to face the most exacting challenges of the modern oil & gas industry: a unique, high tech offshore installation and construction fleet, a global network of engineering and project execution centers, as well as more than a dozen strategically positioned prefabrication and construction support yards, all designed to offer to investors and to local communities the optimum solutions for their new projects. The presentation will illustrate the rationale and the key steps of the asset base expansion program, which contributed greatly to Saipem’s positioning today as one of the world leading E&C general contractors, offshore and onshore.

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Gordon McManus, Senior Analyst, Wood Mackenzie

1:30 PM

“Outlook for the Global Downstream Sector”

The presentation is to detail our outlook for global oil demand, identifying the key growth regions and the key growth products. An overview of global crude and natural gas supply outlook is to be provided. The demand outlook and feedstock supply is to be compared with the planned refining investments, so assessing the outlook for global balances, regional supply/demand balances, inter-regional trade, asset competitive positions and associated refining margins. This is to be consolidated to identify the global challenges that provide opportunities for the E&C community.

Arnt Knudsen, Senior Vice President, Technology & Business Development Concrete Solutions, Kvaerner

2:10 PM

“Norwegian Oil & Gas Field Development solutions for the Arctic”

Since oil & gas was discovered in the North Sea in the late sixties, the Norwegian offshore industry has been able to develop tremendously. After a modest start, pioneering engineering solutions enabled the Norwegian industry to take a sizable part of the activities on the Continental Shelf. Field Development solutions such as the gravity base structures (GBS) enabled competitive execution in Norway to the benefit of all parties. With the benefit of a continuous set of field developments combined with more challenging fields in deeper waters, the Norwegian industry has been able to develop ever new competitive solutions, including floating platform and concrete steps towards sub-sea processing. As the oil industry is moving North towards the Arctic, Kvaerner has been able to capitalize on the experience from the North Sea. New innovative solutions has been developed and constructed for the Arctic. The presentation will address some of these solutions and the potential for the future in these sensitive and demanding regions of the world.

Dr. Michael Economides, Professor of Chemical & Biomolecular Engineering, University of Houston

2:50 PM

“Natural Gas: Future Premier Fuel of the World Economy”

Natural gas whose international price zoomed to as high as \$25 per Mscf in 2008 (in parity with oil in Japan) it has dropped considerably since then. In the US it has been about one fourth of its “BTU-parity” with oil. There are many reasons for this situation and they include considerable demand destruction in Russia, large new capacity of LNG in Qatar and Australia and, of course, the inertia of the success in shale formation activities in the United States, arguably one of the most important developments in the petroleum industry in decades.

Fuel choice is now becoming more prevalent as transportation fuels are now adding more CNG, LNG and biofuels into alongside gasoline and diesel fuels. Climate change debate is shifting coal and oil powered generation to natural gas, but these changes are going to take a number of decades to be in place. Huge

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new discoveries of gas are being made globally and the IEA has suggested a global 300 year supply of natural gas at the current rate of use.

Natural gas will certainly play a pivotal role in world energy supply and will move towards becoming the premier fuel of the world economy. Shale production and widely available LNG facilities will unify the price of gas internationally and reduce its seasonality in the not too distant future.

***Tevin Vongvanich, President & CEO, PTT Exploration and Production
Public Company Limited***

4:00 PM

Shale products, derived from new upstream unconventional technology, may trigger game changes in the energy market. Although shale poses several challenges in commercialization, shale projects in the U.S. are good examples of success story due to the availability of technology, supporting infrastructure, and investment climate. The discovery and commercialization of shale in the U.S. will not only ease the country's energy demand and reduce imported energy, but also promote a high energy intensive industry. Surplus energy resources from shale can also be exported to global market as oil and LNG.

The boom of shale in North America together with the attractive low natural gas price promotes expansion of the petrochemical industry, which has now caused difficulty for Asian petrochemical suppliers as they require importing higher cost energy for feedstock. For example, naphtha based petrochemical will have a tough time.

As Asia economic growth is dependent on energy supply, LNG from both conventional and floating LNG will be the key imported resources. This will generate an increase in the global gas trade which could lead to delinking the gas price from crude. The Asian premium on LNG pricing is expected to disappear due to the competition in the market between existing suppliers (e.g. Qatar, Australia) and newcomers (e.g. East Africa, shale gas). Although it's expected large volume of the shale gas discovered in China, it will only help on less imported energy to this region. Many Asian National Oil Companies (NOC), in particular those of the energy importing countries, have to adapt themselves by investing in unconventional projects internationally to balance domestic resources with the imported energy.

Mark Peters, Vice President, Pennwell Publishing

4:40 PM

“Meeting the World’s Energy Needs”

- Will the growth in pipelines, storage facilities, ports and other transportation means due to technological changes and developments be rapid enough and located in the proper regions of world to fuel significant increases in electric demand and hydrocarbon demand?. What new opportunities in the development of hydrocarbon processing facilities do these rapid changes bring for the EPC's? Will these changes disrupt the development of offshore deepwater resources in the United States Gulf of Mexico, West Africa, Brazil and Australia/Southeast Asia?
- Will the switch from coal to natural gas for electric power generation result in decreased carbon dioxide emissions help to meet greenhouse gas commitments without impacting energy prices?



Rice Global E&C Forum Engineering & Construction

About Rice Global E&C Forum

The Rice Global E&C Forum (RGF) is a premier venue for discussion of critical issues impacting the future of the global E & C industry. The organization collaborates with Rice University, conducts an Annual Forum and holds Monthly Roundtable meetings. The Forum brings together an impressive array of credentials, resources and viewpoints to the discussion and study of problems and opportunities facing the industry. RGF also provides an opportunity for the industry to identify areas of mutual interest that could benefit from collaborative analysis and is an excellent platform for both formal and informal exchange of ideas and opinions.

Become a Member

Are you a member of RGF? If not, we encourage to you join! For information on membership, please contact Martin Van Sickels, Executive Director, at martinvs@sbcbglobal.net or 713-213-5467.

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