Masterminding Modular Construction in the Oil and Gas Industry

The Modular Construction and Prefabrication Summit has been designed to provide insight into all stages of modularization in large-scale capital projects within the oil and gas industry, from pre-FEED, through to onsite construction and commissioning.

Pre-Conference Workshop Day: 15th September 2014
Main Conference: 16th - 17th September 2014
Location: Renaissance Amsterdam Hotel, Amsterdam, The Netherlands

Thought leaders for 2014 include:

Fred Haney
Executive Director of Design Engineering – Modularization
Fluor

Martin Clutterbuck
Head of Modularization and Fabrication
Devon Canada

Duncan Wigney,
Senior Vice President: Offshore and Pipelines
CB&I

Jef Verdict
Lead Operational Manager
Cofely Fabricom GDF SUEZ

Keerthivasan Jayaraman
Senior Engineer - Civil and Structural
Kellogg Brown & Root Limited

Alistair Gibb
Professor of Complex Project Management
Loughborough University

Giorgio Locatelli
Professor
University of Lincoln

Ashwin Shah
Senior Technical Adviser
Kellogg Brown & Root Limited

Talib Alsayed Gharib
Project Manager
Kuwait National Petroleum Company

Mauro Mancini
Professor & Member of EU Mega-project Initiative
Politecnico di Milano

Adrie Baan
Global Category Manager
Onshore Construction & Fabrication
Shell

John Cushworth
Technical Advisor - Project Development Group
Oil Search Limited

Phil Bailey
Director - Engineering Services
Mabey Bridge

Philip Adkins
Chief Executive Officer
Red Box Energy Services

Maurizio Granata
Business Development Executive
EMIA/Materials, Procurement and Construction Solutions
Intergraph

Dirk Verhoeven
Project Manager
Red Box Energy Services

Sampo Karppinen
Captain Arctic Operations
Red Box Energy Services

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Dear Colleague,

The Modular Construction and Prefabrication Summit for Oil and Gas, the only event dealing specifically with the challenges and developments of industrial modularization within the hydrocarbons industry, promises a highly informative and focused agenda. We will be bringing together case studies from operators, EPCs and academics worldwide, to provide a 360 degree view of the rapidly advancing world of modular construction within oil and gas.

In addition to case study-led presentations, the event agenda will include interactive panel discussions, roundtables and networking opportunities, allowing for enhanced learning and discovery.

As modularization becomes an increasingly favoured construction methodology both on and offshore, this is your opportunity to understand the latest trends and learn from some of the keenest minds within modular construction in the hydrocarbons industry.

I look forward to welcoming you in Amsterdam!

Best regards,

Will Robinson
Summit Director

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**Pre-Conference Workshop Day: Monday 15th September 2014**

**Developing and Delivering Modular Design and Execution Strategies**

An dedicated modular construction workshop discussing the various components necessary to deliver a successful modular project, either onshore or offshore.

Key factors covered will include:

- Modular design
- Optimisation of modular size and density
- Interfaces
- Weight control
- Logistics planning
- Module fabrication yard capability
- Heavy Lift

Discussions will then follow surrounding the conditions necessary for modularization to cut risks and costs associated with large capital projects, and will also consider the conditions whereby stick built methodology may still be the best way manner of proceeding.

*Dirk Verhoeven, Project Manager, ZPMC - Red Box Energy Services*

*Sampo Karppinen, Captain Arctic Operations, ZPMC - Red Box Energy Services*

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Morning Session: 10:00 - 12:00

Lunch Break: 12:00 - 13:00

Afternoon Session: 13:00 - 15:00
Conference Day One: Tuesday 16th September 2014

08:15 Registration and Coffee

08:50 Chairman’s Opening Remarks
Fred Haney, Senior Director, Design Engineering Energy and Chemicals, Fluor Corporation

09:00 The Logistics of Installations, Project Planning & Contracts
- Breakdown, from an operator’s perspective, of key challenges faced in the installation of modules on site
- Understanding the issues at play with regard to installation logistics is of utmost importance in order to ensure that your project remains viable and cost effective
- Forecast the possible risks of schedule delays, resource allocation, availability of man power and materials, delivery, transportation and logistics
Martin Clutterbuck, Head of Modularization and Fabrication, Devon Canada

09:45 Session Reserved for Red Box Energy Services
Philip Adkins, Chief Executive Officer, Red Box Energy Services

10:30 Networking and Refreshment Break

09:45 Key Considerations for Modular Projects
- Potential modularisation drivers: cost, schedule and risk reductions
- Module vs. Stick cost differentials
- Analysis of varying module types (PAU, PAR, VAU, VPU, RIB)
- Methods of module installation
- Overview of impacts upon engineering and procurement
Duncan Wigney, Senior Vice President: Offshore and Pipelines, CB&I

11:45 Business Card Exchange Networking Session
Branded as “the best networking session I’ve ever attended” by a number of past IQPC delegates
A structured networking session, providing the ideal opportunity for you to capitalise on your time out of the office by speaking to each of your peers in attendance

12:30 Networking Lunch

13:30 The Critical Aspects of Structural Design for Modular Projects
Keerthivasan Jayaraman, Senior Engineer - Civil and Structural, Kellogg Brown & Root Limited
Ashwin Shah, Senior Technical Adviser, Kellogg Brown & Root Limited

14:15 Panel Discussion: Project Risk in Remote Locations
Interactive panel discussion with encouraged audience participation, drawing upon experiences of upstream modularization with a focus upon the risk factors associated with projects in remote locations. Questions to be addressed and factors to be considered include:
- What criteria do you use to assess project risk factors?
- Weather and environmental factors
- Political volatility in the area
- Local content labour costs
Panellists include:
Adrie Baan, Global Category Manager Onshore Construction & Fabrication, Shell
Talib Alsayed Gharib, Project Manager, Kuwait National Petroleum Company
John Cushworth, Technical Advisor - Project Development Goup, Oil Search Limited

15:00 Networking and Refreshment Break

15:30 Enhancing Modularization Through the Utilization of a Skilled Workforce
- How to make the most of a skilled and motivated body of personnel, to achieve the best quality in modularization
- Analysis of special considerations required in regards to planning, procurement and quality control
- Case studies following the design, construction and project management of modules for oil, gas and power projects in Europe and worldwide
- Benefits of modularization in the European space
Jef Verdickt, Lead Operational Manager, Cofely Fabricom (GDF Suez)

15:30 Achieving LNG Project Success through Modular Construction
- Drawing upon case studies of numerous regasification terminals across the European space
- Discussing the benefits of execution through modularisation, specific to the oil and gas space
- Findings surrounding research and analysis of megaproject management best practice
Mauro Mancini, Member of EU Megaproject Initiative and Professor, MIP

16:15 Chairman’s Closing Remarks

17:00 Drinks Reception

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CASE STUDY

INTER-ACTIVE

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Conference Day Two: Wednesday 17th September 2014

08:15  Registration and Coffee

08:50  Chairman’s Recap of Day One and Opening Remarks
Fred Haney, Senior Director, Design Engineering Energy and Chemicals, Fluor Corporation

09:00  Logistical Challenges Associated with Large Scale Modular Construction and Pre-Fabrication
• Contractor issues related to mega-modules - using multiple contractors in combination to complete mega-module fabrication
• Logistical challenges associated with transportation of large scale modules to remote areas
• Transportation and logistical aspects of a project should be considered at every stage of a modular project’s life cycle
• Organisation of optimal supply chain and where space for improvement lies
Fred Haney, Senior Director, Design Engineering Energy and Chemicals, Fluor Corporation

09:45  Modularisation as size reduction: the case study of Small Modular nuclear Reactors – SMR
• There is a trade-off between economy of scale (one large single plant) and economy of multiples (several modular plants)
• The size reduction paves the way to many advantages including standardisation and simplification, accelerate learning
• Reducing the size reduce the components’ size fostering the modularisation also in the traditional terms
• All these concepts are applied to design of Small modular Reactors and the lessons learned are widely applicable also to the Oil&Gas Industry
Giorgio Locatelli, Member of EU Megaproject Initiative and Senior Lecturer, University of Lincoln

10:30  Networking and Refreshment Break

11:00  Key Considerations Associated with the Use of Pre-engineered Modular Structures in Extractive Industries
• Case-study led presentation, drawing on modular bridging experience in Peru and Papua New Guinea
• Modular bridging as an enabler providing reliable site access in challenging environments
• Time and cost-savings to be achieved through the use of pre-engineered bridging solutions
• Flexibility and scalability of modular bridging solutions during a large, complex build
Phil Bailey, Director - Engineering Services, Mabey Bridge

11:45  Panel Discussion: Challenges of Onshore vs. Offshore Modular Construction
Panel of project managers with experience of modular construction in either on or off-shore construction
• Discussions surrounding the major differences between the two
• What can onshore modular construction learn from the much more mature offshore modular construction world?
PANEL DISCUSSION LEADERS TO BE CONFIRMED

12:30  Networking Lunch

13:30  Outlining Potential Advancements within Industrial Modularization
• Drawing upon developments within many of the major EPC companies’ modularization techniques to predict future trends within industrial modular construction
• Particular focus upon onshore modular techniques and within this, the advancements within pipe rack modules
Alistair Gibb, ECI Royal Academy of Engineering Professor of Complex Project Management, University of Loughborough

14:15  Smart Engineering Solutions Supporting Modular vs. Stick-built Project Execution Strategies
• ‘Modular Vs. Stick-built’ is becoming a quite complex balancing act between several project aspects that require effective planning and consistent control, from the conceptual phase through detail design through to completion.
• What solutions are available to support these complex execution strategies?
• The bottom line is it’s all about planning to achieve highest profitability and reduce project risks.
Maurizio Granata, Business Development Executive EMIA/Materials, Procurement and Construction Solutions, Intergraph

14:50  Networking and Refreshment Break

15:00  Round Table Discussions: The Future of Modular Construction for the Oil and Gas Industry
• Examinations of the near to medium term future for the use of modular construction
• What types of structures are going to be built in the future that are not currently being built?
• How long will it take for these designs to become a reality?
• What sorts of investments will be required in order to make that a reality?

15:45  Chairman’s Closing Remarks and End of Conference
Fred Haney, Senior Director, Design Engineering Energy and Chemicals, Fluor Corporation

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Maximise Your Involvement: Sponsorship and Exhibition Opportunities

The Modular Construction and Prefabrication Summit for Oil and Gas will be attended by senior officials and decision-makers from industry, bringing together buyers and suppliers in one location. Focused and high-level, the event will be an excellent platform to initiate new business relationships. With tailored networking, sponsors can achieve the face-to-face contact that overcrowded trade shows cannot deliver.

Exhibiting and Sponsorship options are extensive, and packages can be tailor-made to suit your individual company’s needs. Most packages include complimentary entry passes, targeted marketing to industry officials and executives, and bespoke networking opportunities.

Other features of sponsorship include:

- Prominent exhibition space in the main conference networking area
- Participation in comprehensive pre-event marketing campaigns
- Tailored marketing strategies to suit your organisation’s size, capabilities and individual requirement

For more information and to discuss the right opportunity, contact us on +44 (0)207 368 9300 or email sponsorship@iqpc.co.uk

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Who Should Attend?

Previous attendees of the Modular Construction and Prefabrication Summit include:

- Construction Director/Manager
- Project Director/Manager
- Modularisation Manager
- Construction Superintendent
- Director of Construction Commercial Strategies
- Senior Project Engineer
- Director of Technology Applications
- Director of Transportation and Logistics
- Contract Advisor
- Vice President of Fabrication & Modules
- Operations Manager
- Buildings Portfolio Project Manager
- Senior Director of Design Engineering Energy & Chemicals
- Construction Planning & Scheduling Manager
- Drafting Design Manager
- Manager of Construction Audits
- Area Projects Manager

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