

Conference Abstracts:

C1 Intergraph 2010

Speaker: Kevin Holmes, Vice President North Western Europe, Intergraph

Innovation and increased productivity are the keys to succeeding during uncertain times. In this keynote, Kevin will discuss the future of Intergraph under new ownership and how the Process Power and Marine division is working with customers around the world to increase their productivity, accelerate their projects, and gain a competitive edge.

C2 Sponsor Presentations:

Speakers: CAXperts, Leica, Z+F, Trimble, Desurvey

C3 Best Practices Integrated SPO/SPE Project Deployment & Execution for Major Global Projects

Speaker: Phil Wright, Project Engineering Services Manager , WorleyParsons Europe Ltd.

WorleyParsons Europe Ltd is currently executing contracts on some of the largest hydrocarbon projects in the world today. Management of global mega projects is a complex task, particularly in the execution phase with work being undertaken in various globally dispersed locations, by multiple EPC contractors, equipment and material suppliers, design institutes and owner organisations.

Add to this an additional client requirement to adopt a “data centric” approach to information management, utilising fully integrated intelligent applications, with a central data warehouse residing in a location accessible by all, and you have the outline of the challenge we are tackling in London.

This presentation will explain the nature of the challenge, requirements for a solution, how the solution was implemented, the resistance we encountered from engineering personnel and the business benefits that are expected from the implementation of Smartplant Enterprise throughout the life of a project.

C4 Delivering Engineering Enterprise Value: An Offshore Example

Speakers: Frank Joop, Executive Director, Global Business Development, PP&M Intergraph, and the Process, Power & Marine Team

Increasing investments into deepwater drives the need for more complex marine structures like floating liquid natural gas (FLNG) vessels. The resulting growth of complexity represents a new challenge for all players involved; owner/operators, project management contractors as well as EPCs and joint ventures are all looking for options to respond to the associated opportunities and to further increase productivity and profitability.

Using a complex offshore scenario as an example, this session will demonstrate how SmartPlant Enterprise enables the various parties to make quantum-leap business improvements during all phases of the asset lifecycle. You will experience how SmartPlant Enterprise will help you to maximize engineering and design productivity, to streamline technical project management, to minimize claims in multi-party project executions, to accelerate operational readiness and to minimize OPEX during the operational phase of the lifecycle.

If you are representing an owner/operator, a project management contractor, an EPC or a major component/equipment supplier, you must not miss this session. Learn about the future of engineering, today, and see how you will be able to put more distance between you and your competitors.

Conference Abstracts:

E1 Integration of Smart 3D with CAESAR II.

Answering the Challenge of Design and Engineering Collaboration

Speaker: Ken Migas, Regional Manager, Europe, Intergraph

For over 25 years, COADE has been a leader in the design and analyses software solution area. With the acquisition by Intergraph, these products are poised to go even greater heights. This session will offer an overview of the recently acquired Intergraph analysis products, CAESAR II, PV Elite and Tank, offering insights as to how they are used within the engineering and design analyses disciplines.

E2 Isometrics Solutions for the complete Lifecycle

Speaker: Paul Martin, Business Development Manager - Piping Solutions, Intergraph

Many work processes downstream of plant design – such as fabrication, construction, operations and maintenance - require high quality piping isometrics to be available to complete the task at hand. The session will illustrate how Intergraph's SmartPlant® Isometrics and SmartPlant® Spoolgen reuse piping information from the design phase to bring efficiencies throughout the lifecycle providing dramatic productivity gains and cost savings compared to drafting isometrics using conventional CAD.

E3 Integration of Laser Scanning with Smart 3D

Speaker: Robert Christian, Executive Manager, 3D Visualization Product Owner, Intergraph

Laser scanning and dimensional control technology creates challenges and opportunities for design and construction. Intergraph continues to invest and provide leadership with solutions that help make projects successful. SmartPlant 3D, SmartMarine 3D and SmartPlant Review works with laser scanning software from Leica CloudWorx, Z+F LFM Server, Trimble LaserGen, or Quantapoint QuantaCAD. This presentation will show how using laser data for in-context design enables leading EPCs and owners to cut costs and reduce schedules for all types of projects.

E4 High Efficiency and Cost Savings in Instrument & Electrical Engineering with SmartPlant Electrical Detailed Powered by SIGRAPH.CAE

Speakers: Frank Joop, Executive Director Global Business Development & Diego Lopez, Business Development Consultant, Intergraph

In this session, you will learn how SmartPlant Electrical Detailed, powered by SIGRAPH.CAE, the detailed electrical design solution, has extended Intergraph's SmartPlant Electrical scope. On a daily basis, EPCs need integrated and data-consistent support in their I&E departments, from P&IDs to basic and detailed electrical engineering. This process involves updating various engineering iterations and deliverables, including strong revision management on each individual data/attribute, as well as integrating different disciplines and vendor data during the engineering phases. SmartPlant Electrical Detailed is a proven industry-driven solution that can reduce engineering hours by 20 to 30 percent and realize a tremendous quality increase in final engineering data and documentation. Discover how you can gain similar advantages.

Owner operators experience various daily business challenges in operating the plant, as well as executing projects within the plant, while maintaining efficient production. The I&E design basis is a key element in achieving your business objectives in maintenance, revamp, inspection, and other operation projects. All parties require their task-oriented views on the data and documentation, as well as easy data access to facilitate the task at hand. In the last half of this session, you'll discover how Shell Germany used SmartPlant Electrical Detailed to handle mass data, continuous plant changes, and support with limited manpower. See how you can use and adapt this standard solution as your engineering and design basis for I&E.

Conference Abstracts:

E5 Safety in the Engineering Enterprise

Speakers: Frank Joop, Executive Director Global Business Development & Diego Lopez, Business Development Consultant, Intergraph

Building and operating a plant safely is essential for the business, environment, personnel, and business image. SmartPlant can assist in making the right decisions early in the design phase to accomplish corporate safety goals. In this session, you will learn how SmartPlant rules and capabilities can help you make safe design decisions, assessing risks through HAZOP studies and making sure the plant will operate under safe conditions while keeping costs and schedules as planned. The speaker will discuss area classification designs and how to check for under-classified equipment items in those zones. The safety aspects we will cover include process safety, personal safety, facility safety, and environmental safety for your facility. Join this session and learn how to design safety into your plant.

01 Reducing Costs and Risks in CAPEX Projects with Improved Project Execution Processes

Speaker: Adrian Park, Global Executive Director, Owner Operator Solutions, Intergraph

CAPEX projects in the process industry typically overrun project budget by 20-30% and delays to plant start-up are frequent. In this session, you will be shown how project management contractors and owner operator project teams can achieve improvements in managing key work processes including: managing project change, interface management, non-conformity management and technical query management to reduce the risk of escalating costs and delays on projects. Intergraph's template solution for project execution processes enables fast, low-risk implementation of these integrated project execution processes into projects.

02 Mastering Interface Management on Complex Mega Projects

Speaker: Phil Wright, Project Engineering Services Manager, WorleyParsons Europe Ltd.

WorleyParsons Europe Ltd., is currently executing contracts on some of the largest hydrocarbon development projects in the world today. Managing project interfaces is highly complex, particularly in the execution phase with multiple EPC contractors, package equipment suppliers, design institutes, and owner organizations interfacing on a daily basis. For example, on a mega project, the total number of interface points may exceed 100,000. If these are not managed correctly, they have the potential to significantly impact a project's overall cost.

In this presentation, the speaker will explain the nature of the challenge, requirements for a solution, and the business benefits expected from the implementation of the SPO Interface Management business package to provide an overall interface management solution throughout the life of a project.

03 SmartPlant Enterprise for Owner Operators: Improving Plant Efficiency, Reliability and Reducing OPEX Costs

Speaker: Adrian Park, Global Executive Director, Owner Operator Solutions, Intergraph

Seconds count when responding to plant incidents. Providing plant floor workers and engineers with quick and easy access to essential plant engineering information together with data from other operations systems such as DCS and maintenance systems can make a major difference in supporting the critical decision-making processes. SmartPlant Enterprise for Owner Operators (SPO) provides a ready-made solution for rapid implementation to support operations and maintenance activities for Greenfield and Brownfield plants. In this session, you will be shown how SPO manages key processes for the operations phase of the plant lifecycle, including: supporting troubleshooting activities; managing plant design changes to provide auditable compliance with authority requirements; preparing and validating data for loading into maintenance systems then ensuring the maintenance system is kept in line with changes to the engineering design basis; and improved planning of the complex, laborious turnaround planning process.

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04 Join Gassco's journey into the Smart Plant World

Speaker: Aase Soland Bjelland, Principal engineer -Technical Information and LCI in Gassco.

Gassco is the operator of the integrated systems for transporting gas from the Norwegian continental shelf to other European countries. During the last 1,5 years Gassco has started using the SmartPlant products. The process of establishing the technical information systems in Gassco is still ongoing. There are plans for further expansion to use more products and integration between engineering tools and SmartPlant Foundation. The presentation will cover Gassco's experience from starting use of the systems and the plans ahead, as well as how Gassco approaches LCI in projects/modifications and in operation of the gas terminals.

05 High-quality Plant Asset Data Handover – Validation, Transformation & Loading Solution/Exploiting an Integrated SmartPlant Environment in CAPEX & OPEX Plan Life-cycle Phases

Speakers: Tom Arsenovic, VP EMIA Services Coordination & Business Development, Intergraph and Adrian Park, Global Executive Director, Owner Operator Solutions, Intergraph

The quality of the information delivered by a project is critical to ensuring safe and effective operations. The high complexity and enormous volume of data, together with scarcity of qualified resources, makes data validation a high priority for many owner operators, but also poses enormous challenges. In this presentation, the speaker will discuss Intergraph's Validation, Transformation, and Loading solution, which can verify data from multiple contractors or legacy systems and load it into target operations systems. You will hear recommendations and strategies for ensuring timely handover, reduced costs, and improved data quality.

P1 SmartPlant Reference Data and SmartPlant Materials

Speaker: Chris Why, Business Development Director, Intergraph EMIA

Key factors in the growth of the SmartPlant Reference Data and SmartPlant Materials marketshare are flexibility combined with rich and comprehensive functionality, all reflecting best industry practices. The speaker of this session will discuss SmartPlant Reference Data and SmartPlant Materials' continuing market-driving development strategy, which focuses on major enhancements in version 2011. Some of the 2011 enhancements include a new user interface based on the latest technology, new functionality for subcontract management, and more content available for SmartPlant Reference Data.

P2 Engineering and Schematics product update

Speakers: Frank Joop, Executive Director Global Business Development & Diego Lopez, Business Development Consultant, Intergraph

In this session, the speaker will highlight the latest updates on Intergraph engineering and schematics products. Discover the new functionality and improvements to existing capabilities of SmartPlant P&ID, SmartPlant Instrumentation, SmartPlant Electrical, SmartPlant Electrical Detailed powered by SIGGRAPH.CAE (our new addition to our schematic solution), SmartPlant Process Safety, and SmartPlant Explorer. In addition, hear about Intergraph's interface to our partners such as ETAP and Emerson to support workflows and enhance the value of the solution offering. You'll also learn more about the comparison between the P&ID and isometric and the PDMS 3D model, and the enhancements to the SmartPlant Isometric suite. Also covered in this session are new SmartSketch enhancements to better support the engineering work process, making it the drawing tool for SmartPlant 3D. Lastly, the speaker will provide an update on Intergraph's overall engineering and schematics solution suite and our future plans.

P3 Smart 3D, product update

Speaker: Robert Christian, Executive Manager, 3D Visualization Product Owner, Intergraph

Intergraph Smart 3D solutions have added significant new features designed specifically to increase productivity and enhance performance. Intergraph experts will discuss the business and technical benefits of the new features released this year. Learn how you can improve your engineering designs and take full advantage of the latest Smart 3D software.

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C4 SmartPlant Enterprise in Grenland Group - The New Vision with SmartPlant Enterprise Core

Speaker: Tonia L. Pedersen and Terje Ørbeck, Grenland Group

Grenland Group is a leading supplier of engineering, construction and modification services to the global oil and gas industry. Within the last 5 years Grenland Group has consolidated its engineering tools with the use of Intergraph SmartPlant Enterprise; SmartPlant Foundation, 3D Marine, Instrumentation, Electrical and P&ID. Building on this base, Grenland Group has recently brought in SPE Core as a solution to provide central tag registry functionality for current and future engineering projects. This presentation will cover why Grenland Group has selected SPE Core and how SPE Core is being used in two ongoing projects.

C5 Vår Skapende Hjerne

Speaker: Atle Gundersen

Atle Gundersen har utdanning fra Befalskolen for Hæren, 3-årig studie i Grafisk Design ved Rogaland Formgiverskole, og 3-årig Markedshøyskole ved RMH i Stavanger. Av erfaring kan nevnes: Desktop Publisher hos Idea&Art reklamebyrå, Instruktor for Markeds og Mediatilstand, Konsulent for Initial prosjekt AS i Stavanger, Markedskoordinator for Otteren Trading i Sandnes. Han jobbet i 5 år som instruktør ved Merkantil Institutt i Stavanger, Drammen og Tønsberg. Fra 2003-2006 jobbet han som teamutvikler og lærer ved Kreagentskolen i Tønsberg. For tiden er han ansatt som lærer i faget mediekommunikasjon ved Holmestrand videregående skole. I tillegg holder han kurs og foredrag for organisasjoner og næringsliv..

E7 Smart3D Automation – 3D data browsing

Speaker: Darren Litherland, CAD Administrator, Grenland Group

Through the implementation of simple Smart 3D automation to extract data from the 3D model you can use the acquired information to solve common problems.

For example, in drawings, an issue many users will have experienced is not having the ability to differentiate between objects of the same type (highlighting). Using the data browser to locate the objects you wish to highlight, you can automatically create the necessary filters and viewstyles to be applied to drawing views.

A 3D data browser can also be adapted to organize and present model data graphically. An example of this is measuring progress in piping modelling where existing data is used to estimate the completion date.

Important parts of the code used will be explained.

E8 Site-based Isometric Workflows for Design, Operation & Maintenance

Speaker: Paul Martin, Business Development Manager - Piping Solutions, Intergraph UK

Learn how HERTEL ENNING deployed Intergraph SmartPlant tools to generate detailed and accurate piping documentation, including testing requirements during the detailed engineering phase. This documentation can form part of the handover of engineering data and documentation to the plant repository and/or be used to maintain the documentation during the plant lifetime for various purposes, including minor site-based projects, maintenance planning, and inspection recording.

07 Effective collaboration & workshare in 3D design - benefits and case studies

Speaker: Robert Christian, Executive Manager, 3D Visualization Product Owner, Intergraph

More and more of today's projects are executed in the joint ventures to overcome the large scale or short time frame of the projects. In many cases the project partners are spread geographically, working in different languages, locations and time zones. The session will provide the overview of effective project collaboration using various workshare options built into SmartPlant 3D. Client examples will be shown to illustrate the experiences and benefits gained from using the worksharing capabilities.

Conference Abstracts:

P6 SmartPlant Construction Product Update

Speaker: Chris Why, Business Development Director, Intergraph EMIA

Construction projects in today's market have become more complex. Information from multiple systems and departments or contractors needs to be effectively coordinated and managed to execute construction projects in the most efficient manner. In this session, an expert on workface planning will explain a new approach to planning large construction projects. The speaker will illustrate the key elements of this new approach by addressing the benefits of workface planning, including the potential to reduce total installed costs by up to 10 percent. Areas to be addressed will include path of construction, work packaging (construction work packages (CWP), engineering work packages (EWP), field installation work packages (FIWP), constraint checking, project controls (rules of credit, project progressing, schedule updates), and document controls.

In addition to the above overview session, the speaker will also cover SmartPlant Construction's short-term, mid-term, long-term development strategy/roadmap.

P7 Build on your Intergraph investment to power process safety, John de Brugha, Hazid

Speaker: John de Brugha, Hazid

Leveraging your Intergraph investment to help keep the plant safe

We all have a duty to keep our plants and offshore assets safe, protecting the lives of our colleagues and communities. This presentation outlines where and why the process safety value chain is weak, and how your organisation can build on your Intergraph investment to complete the value chain and improve process safety.

C6 Summing up the conference tracks

Speaker: Kevin Holmes, Vice President North Western Europe, Intergraph

Summing up the conference tracks including step-change in capabilities that the SPE enables, improved safety – by building operational and design rules, behavior and validation into the engineering tools, SPE enables safety measures/improvements/assurance to be tightly integrated with day-to-day work offering safer and lower cost plant.