INTERGRAPH 2010 KOREA
13 - 14 July
Seoul, South Korea

EL Tower
24 Yangjae Dong, Seocho Gu
Seoul, South Korea

A WORLD OF OPPORTUNITIES
## 13 JULY, 2010 – DAY ONE KEYNOTES

<table>
<thead>
<tr>
<th>Time</th>
<th>Keynotes</th>
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<tbody>
<tr>
<td>9.30am</td>
<td>Welcome Address</td>
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<tr>
<td></td>
<td>Se Eun Kim, President Intergraph Korea, Intergraph</td>
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<tr>
<td>9.40am</td>
<td>Welcome Address by IUC Chairman</td>
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<tr>
<td>9.45am</td>
<td>Intergraph Corporate Keynote and Process, Power and Marine in Asia Pacific</td>
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<td></td>
<td>Tom Doran, Executive Vice President, Process, Power and Marine, Asia Pacific, Intergraph</td>
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<tr>
<td>10.30am</td>
<td>BREAK</td>
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<tr>
<td>11.00am</td>
<td>Delivering Engineering Enterprise Value</td>
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<td>Patrick Holcomb, Executive Vice President, Process, Power and Marine, Intergraph</td>
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<tr>
<td>11.10am</td>
<td>Innovation 2010: A Commitment to New and Expanded Solutions</td>
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<td>Patrick Holcomb, Executive Vice President, Process, Power and Marine, Intergraph</td>
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<tr>
<td>12.00pm</td>
<td>Industry Keynote</td>
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<tr>
<td>12.30pm</td>
<td>LUNCH</td>
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## 13 JULY, 2010 – DAY ONE SESSIONS

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<tr>
<th>Time</th>
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<th>Enterprise Meeting Room 2</th>
<th>Procurement, Fabrication and Construction Meeting Room 3</th>
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<tbody>
<tr>
<td>1.45pm</td>
<td>SmartPlant 3D, PDS and Visualisation Product Update and Roadmap</td>
<td>SmartPlant Foundation and Enterprise Product Update</td>
<td>SmartPlant Materials Product Update Callum Ford, Intergraph</td>
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<td>Tom Szoka, Intergraph</td>
<td>Ewan Botterill, Intergraph</td>
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<tr>
<td>2.45pm</td>
<td>Intergraph CADWorx and Analysis Solutions – ROI for You</td>
<td>Intergraph Solutions for Reducing Risk and Increasing Plant Safety</td>
<td>Customer Presentation</td>
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<td></td>
<td>Chris Schiller, Intergraph</td>
<td>Douglas Clark, Grant Prince and Bin Lin, Intergraph</td>
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<tr>
<td>3.15pm</td>
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<tr>
<td>3.45pm</td>
<td>Customer Presentation</td>
<td>SmartPlant Enterprise for Owner Operators Improving Plant Efficiency, Reliability and</td>
<td>SmartPlant Materials Subcontract Management Callum</td>
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<td></td>
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<td>Reducing OPEX Costs</td>
<td>Ford, Intergraph</td>
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<td>Daryl Schroeder and Ray Howarth, Intergraph</td>
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<tr>
<td>4.30pm</td>
<td>Engineering and Schematics Solutions Now and Next in Productivity</td>
<td>Integrated Project Execution and Handover with SmartPlant Enterprise</td>
<td>SmartPlant Construction Product Overview and Update</td>
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<td>Grant Prince, Intergraph</td>
<td>Lance Mustard, Intergraph</td>
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<td>5.30pm</td>
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<td>Conference Close</td>
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<tr>
<td>6.30pm</td>
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<td>Intergraph 2010 Korea Dinner</td>
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<td></td>
<td>Patrick Holcomb and the Intergraph Korea Process, Power and Marine Team</td>
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<tr>
<td>10.25am</td>
<td>CAXperts Services and Products Overview</td>
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<td>Anton Schreibmuller, Managing Director, CAXperts</td>
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<tr>
<td>10.30am</td>
<td>Maximising Value from the Structural Supply Chain</td>
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<td>TaiHeon Choi, President, Intratech</td>
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<tr>
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<tr>
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<td>Extended SmartPlant Electrical Solutions</td>
<td>Customer Presentation</td>
<td>Materials Handling Projects in the 3D World</td>
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<td>SmartMarine Offshore</td>
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<td>Why would an EPC need the Offshore Functionality of SmartMarine</td>
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<td>Sang Heon Lee, Intergraph</td>
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<td>- Automating the Loading and Validation Process</td>
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BIOGRAPHIES

Tom Doran, Executive Vice President, Process, Power and Marine, Asia Pacific, Intergraph
Tom is the Executive Vice President, Asia Pacific for Intergraph’s Process, Power and Marine division. Tom oversees sales distribution and overall business operations for the Asia Pacific Region. He has more than 27 years experience in the technical computing business. This includes over 26 years with Intergraph in marketing, sales and general management roles focused on providing software and engineering services to, Petro-Chemical, Oil and Gas, Marine manufacturers, Power Generation companies, engineering contractors, and construction firms worldwide. Tom holds a Bachelor of Science from Kansas State University. He is currently on the Executive Advisory Committee to the Board of Directors for the Engineering Construction and Consulting Association (ECC) based in the United States.

Patrick Holcomb, Executive Vice President, Process, Power and Marine, Intergraph
Patrick is the Executive Vice President of Business Development for Intergraph’s Process, Power and Marine division, with responsibility for mergers/acquisitions and product strategic planning. Patrick has a background in the process industry engineering, technology startups, IT strategy, and global software marketing. Prior to working at Intergraph, Patrick was founder and VP Business Development for Industria, securing $34M in initial capital for a procurement and materials management software startup in Silicon Valley. Prior to that, his experience at Accenture in San Francisco was in the arena of IT Strategy and corporate development. Patrick’s first job, was with ExxonMobil where he held several roles including maintenance engineer, process engineer, and refinery coordinator. Patrick’s education includes a BS in Mechanical Engineering from Washington University in St. Louis and an MBA from the University of Michigan.

ABSTRACTS

INTERGRAPH 2010 KOREA 13 - 14 JULY

KEYNOTES

Intergraph Corporate Keynote and Process, Power and Marine in Asia Pacific
Tom Doran, Senior Vice President, Asia Pacific, Process, Power and Marine, Intergraph
Innovation and increased productivity are the keys to succeeding during uncertain times. In this keynote address, Tom will discuss how the division is working with customers around the world to increase their productivity, accelerate their projects, and gain a competitive edge. Intergraph’s SmartPlant® and SmartMarine® solutions are part of the broadest product portfolio available in the market, offering the future of engineering today to both engineering companies and owner operators. During the keynote, several Intergraph customers and their success stories will be highlighted as examples. These stories include in-production use of Intergraph’s SmartPlant 3D and SmartMarine 3D, the only new 3D solutions offered to the process, power, and marine industries in 20 years. Customers using these solutions report more than 30 percent productivity gains – extremely important in the challenging business environment facing our industries. Tom will also update you on the division’s performance and priorities for this year and the future. With over 40 years of innovation, stability, and market leadership, he will reiterate why the company is a proven and dedicated partner for its customers.

Delivering Engineering Enterprise Value
Patrick Holcomb and Executive Vice President, Process, Power and Marine, Intergraph
Increasing investments into deepwater drives the need for more complex marine structures like floating LNG 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 maximise engineering and design productivity, to streamline technical project management, to minimise claims in multi-party project execution, 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.

**Innovation 2010: A Commitment to New and Expanded Solutions**

*Patrick Holcomb and Executive Vice President, Process, Power and Marine, Intergraph*

As the world’s leading provider of enterprise engineering software, Intergraph continues its 40-year tradition of technical innovation by consistently developing new productivity-increasing solutions and expanding its solution portfolio through selective acquisitions. In this keynote session, learn more about Intergraph’s relevant technology advances of the past year, including enhancements to our major product offerings such as SmartPlant® 3D and SmartMarine® 3D. The session also will highlight some of Intergraph’s newest solutions developed specifically for the process, power, and marine industries, as well as direction of our recently acquired CADWorx®, CAESAR II®, and SIGRAPH.CAE® solutions.

**PRESENTATIONS**

**ENGINEERING**

**SmartPlant 3D, PDS and Visualisation Product Update and Roadmap**

*Tom Szoka, Intergraph*

Intergraph’s Smart 3D solutions have 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. In this session learn how you can improve your engineering designs and take full advantage of the latest Smart 3D software.

**Intergraph CADWorx and Analysis Solutions – ROI for You**

*Chris Schiller, Intergraph*

For over 25 years, COADE has been a leader in the design and analysis software solutions arena. With the acquisition by Intergraph, these products are poised to go to 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 analysis disciplines. We will show the interoperability between the products and highlight how these products offer users the ability to maximize productivity, increase efficiency, and focusing on safety.

**Engineering and Schematics Solutions - Now and Next in Productivity**

*Zur Bar, Bin Lin and Ronnie Moss, Intergraph*

Smart Engineering. Come and see what’s new and what’s planed for Intergraph Schematic Products. SmartPlant P&ID, SmartPlant Instrumentation, SmartPlant Electrical and Sigraph. In this session see how Intergraph has developed some very efficient and effective new functionality providing incredible new design capabilities. Capabilities that will allow you to enhance your productivity both in design and operations with quality, consistency and expanded scope coverage.

**ENTERPRISE**

**SmartPlant Foundation and Enterprise Product Update**

*Ewan Botterill, Intergraph*

Over 400 customers have acquired SmartPlant Foundation as the information management and integration hub of their integrated engineering and operations activities. As the hub for the SmartPlant Enterprise, SmartPlant Foundation is by far the leading data and document management platform in the market today. In this session, the vision, evolution and latest updates of SmartPlant Foundation and SmartPlant Enterprise will be presented. New capabilities include;- data consolidation and inconsistency reporting, advances in the web portal, new high performance data release mechanisms and extensible payload datasheets (including graphics).
Intergraph Solutions for Reducing Risk and Increasing Plant Safety
Douglas Clark, Grant Prince and Bin Lin, Intergraph
Safety is a key aspect of operating any process or power facility. Most plants prominently display a “days without a safety incident” sign that keeps safety at the forefront of everyone’s mind. Process and power facilities are complex. Many scenarios can result from a safety incident.

In this session, learn how Intergraph’s solutions can help during the design, as well as in the operational phase, to reduce the risk of plant incidents. There is no such thing as a 100 percent safe plant. The key is to make the correct risk assessments and execute the proper mitigation activities to make the plant as safe as possible. Intergraph’s SmartPlant Enterprise solutions can assist in making the right decisions through rules, relationships and data to minimise risks and increase safety for your personnel, process, facility, and environment.

SmartPlant Enterprise for Owner Operators - Improving Plant Efficiency, Reliability and Reducing OPEX Costs
Daryl Schroeder and Ray Howarth, 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. This session will show how SPO manages key processes for the operations phase of the plant life-cycle including: supporting trouble shooting activities; managing plant design changes to provide auditable compliance with authority requirements; preparing and validating data for loading into maintenance systems then ensuing the maintenance system is kept in line with changes to the engineering design basis; and improved planning of the complex, laborious turnaround planning process.

Integrated Project Execution and Handover with SmartPlant Enterprise
Grant Prince, Intergraph
Handover from projects into operations is one of the most active, demanding and potentially costly phases of a plants lifecycle. More recently, the complexities of the traditional handover process has been compounded with multi-contractor project execution and clients demanding integrated data handovers from such projects. This session looks at how Intergraph has been working with customers to achieve multi EPC integrated data handovers. During this session a number of handover scenarios will be explored along with the business process and operational challenges.

PROCUREMENT, FABRICATION AND CONSTRUCTION

SmartPlant Materials Product Update
Callum Ford, Intergraph
Key factors in the growth of SmartPlant Materials’ market share include its flexibility combined with rich and comprehensive functionality, reflecting industry best practices. This session will showcase SmartPlant Materials and its continued market-driving development strategy, focused on major enhancements in the 2011 versions. You will see some of the 2011 version enhancements, such as a new user interface based on .NET technology for SPRD Plus and new functionality for Subcontract Management.

SmartPlant Materials Subcontract Management
Callum Ford, Intergraph
Given subcontracts typically make up 30 to 40% of a project’s cost today, it’s clear that any improvements in the process of defining, developing, monitoring, and managing subcontracts has the potential to bring huge dividends to a project. Intergraph recently developed the ability to manage the formation and administration of Subcontracts as part of the SmartPlant Materials product. This new module will deliver capability to manage the contracts between the Main Contractor (EPC/M) and the Subcontractor. This session will showcase an overview of the benefits of controlled subcontract management and highlight the features of this new module.

SmartPlant Construction Product Overview and Update
Lance Mustard, Intergraph
SmartPlant Construction was released in September 2009 and is a major breakthrough for construction management. SmartPlant Construction will enable you to plan, forecast and status your construction work, with integration of design, equipment, schedule and resources in 4D. This session will outline how SmartPlant Construction can provide significant benefits for the construction management team to get a real time view on progress and status, as well as realising productivity improvements to shorten schedule, decrease lost time and ensure safety considerations are planned for in the construction
activities. Progress can be accurately recorded and visually represented to allow easy identification of critical issues and enable rescheduling and prioritisation to meet required milestones.

ABSTRACTS

KEYNOTE

Delivering Engineering Enterprise Value

Patrick Holcomb and the Intergraph Korea Process, Power and Marine Team

Increasing investments into deepwater drives the need for more complex marine structures like floating liquid natural gas 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.

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PRESENTATIONS

ENGINEERING

Extended SmartPlant Electrical Solutions

Zur Bar and Ronnie Moss, Intergraph

This session we will demonstrate the extended electrical solution that shows the coverage of the complete electrical scope from the basic engineering and design validation with ETAP to the detailed design such as panel layouts, 3-Line diagrams, etc. This not only provides the complete electrical scope offering, but through integration with the SmartPlant Enterprise rules, workflow change management with other disciplines, you’ll see a powerful and unique solution that provides productivity, consistent design and documentation.

SmartPlant 3D Modular Design and Referencing

Douglas Clark, Intergraph

Intergraph’s Smart 3D solution can now bring in data from multiple 3D sources for spatial reference, clash detection, administrative reports, and drawing generation. Combining proven visualisation and data-associative technologies with the latest data-centric and rule-based architecture, this model referencing capability – known as Reference 3D (R3D) – is a highly robust, yet straightforward mechanism for adding externally generated data to your Smart 3D projects.

This session will demonstrate how Reference 3D enables a variety of project workflows, including:

- Parallel Design for Building Multi-Train or Modular Facilities
- Disconnected Workshare for Joint-Venture or Subcontracting Scenarios
- Use of Standard Modules for Centralised Project Control

Because Reference 3D is independent of software version, database platform, or 3D authoring tool, even the most complex project can now be executed with minimal risk to schedule, cost, or intellectual property.
SmartPlant 3D Automated Drawing Composition
Vivek Mokashi, Intergraph
Smart 3D provides powerful functionality to automatically compose and generate drawings. This is enabled by data centric intelligent 3D model combined with query based drawing creation. This session focuses on the process of automating production of several drawing types such as Pipe Support Fabrication Drawings, Equipment Trim Drawings, Module Center of Gravity reports, Duct Spool Drawings etc. Understand the effort and benefits offered to the projects in using this powerful functionality.

Effective Strategies for Moving to SmartPlant 3D
Douglas Clark, Intergraph
With in excess of 200 organisations around the world having already upgraded to Smart 3D technology the methods and approaches for successfully implementing Smart 3D technology are becoming increasing apparent and with ever increasing numbers of owner operators specifying Smart 3D for their projects the need for organisations to effectively and quickly implement Smart 3D is becoming clear. This session covers the lessons learnt by Intergraph regarding effective strategies and management of the transition from existing systems to the Smart 3D environment and the ways in which Intergraph can help.

Using the Power of SmartPlant 3D Administration
Vivek Mokashi, Intergraph
Smart 3D is a data centric application, which means increased focus on data behind 3D graphics. Legacy 3D software’s allowed significant data inconsistencies in the 3D model which need to be managed through work process and manual checking. In this session we will focus on making use of various tools and functions provided by Smart 3D to improve quality of data represented by the 3D model. Understand how the focus on data in addition to graphics provides real savings and benefits to the 3D project execution.

ENTERPRISE

Reducing Costs and Risks in CAPEX Projects with Improved Project Execution Processes
Daryl Schroeder and Ray Howarth, Intergraph
CAPEX projects in the process industry typically overrun project budget by 20-30% and delays to plant start-up are frequent. This session will show 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.

Ensuring Plant Data Quality - Automating the Loading and Validation Process
Daryl Schroeder and Ray Howarth, Intergraph
There is a price to be paid for poor plant asset data quality in operations; the take-over of plant data and documentation can cost in the region of $10-20 million per $1 billion CAPEX value and ongoing plant quality issues can increase the cost of all plant modification activities by 30%. Plant owners are becoming increasingly aware of these costs and scrutinising the quality of the “virtual plant” delivery and EPCs are responding by ensuring their outputs are correct, complete and accurate. This session will show how the new Validation, Transformation and Loading tool from Intergraph can be used to: automate the loading of information deliveries from multiple contractors/sub-contractors or legacy systems; verify the quality of information against tailored rule-sets; and export and load data into target plant operations systems.

Engineering and Schematics in Operation
Ronnie Moss and Bin Lin, Intergraph
The operation of a plant involves making the right decision fast. To do this you need to be informed with the right engineering data on demand. SmartPlant Engineering and Schematics solutions support the life cycle of the plant from the creation of a consistent set of high quality safe engineering designs to accessing and presenting that information to help you make the right decisions in operation and maintenance activities. This session will present examples of Intergraph solutions in design through to operations and maintenance.

Evolution of the SmartPlant Foundation Web Portal and the Vision for the Enterprise Portal
Ewan Botterill and Grant Prince, Intergraph
The SmartPlant Foundation Web Portal was introduced with the SPF2008 release - since then its vision, scope and capabilities have continually advanced. This session will explore the latest capabilities delivered with the SPF Web Portal and will articulate the vision and strategy of these important technologies going forward.
Data Authoring in SmartPlant Foundation
Ewan Botterill and Grant Prince, Intergraph
The management and editing of Master Lists and Datasheets in many organisations is often performed by isolated tools like Excel and Access. Controlling these sources of information and their consolidation from many disciplines is time consuming and erroneous. This session demonstrates how a number of SmartPlant Foundation features can be brought together to provide a customer with an integrated Master List and/or Datasheet environment. It will demonstrate the new extensible payload datasheet capability that provides significant time/cost benefits when sharing data with suppliers and partners.

INDUSTRY

Materials Handling Projects in the 3D World
Douglas Clark, Intergraph
SmartPlant3D Materials Handling Edition is a new product being launched focusing on the materials handling industry segment. The product introduces a step change in methods and work processes used in the design of bulk materials handling systems, facilitated by Intergraph’s Smart intelligent 3D environment. Including the ability to produce fabrication level details for complex transfer chutes and hoppers. In this session learn how early adopters are reporting substantial time savings over their existing conveyor layout processes. Pre-configured wizards specifically developed for the Materials Handling industry enable the user to fast track to deliver modeled designed assemblies by creating re-usable parametric content.

SmartMarine Offshore - Why would an EPC need the Offshore Functionality of SmartMarine
Sang Heon Lee, Intergraph
I already have SmartPlant 3D so why would I need another product called SmartMarine 3D and start again? How can I more effectively design top-side structure all the way to manufacturing and handover? How can I integrate topside and hull design to ensure design consistency? How about the correct weight and center of gravity? Do I need two solutions, one for onshore and one for offshore?

Are these kinds of questions familiar? During this session you will see how Intergraph’s latest version of SmartMarine 3D can achieve proven business value.

Power Industry Overview
Dave Canady, Intergraph
Power industry customers’ portfolios and services span primary energy to power distribution. EPCs and vendors are realising their vision of an integrated engineering platform which yields higher productivity and facilitates an integrated workflow and effective data management. In this session, learn how customers have used successful strategies, phased implementation, realised benefits and savings, and quality improvements from implementing an integral software environment.

Life Sciences Industry Overview
Dave Canady, Intergraph
Intergraph will introduce how SmartPlant for Life Sciences will add automated test generation, execution, and record-keeping to your facilities’ quality assurance and quality control procedures and work practices. In this session, see how its general-purpose, test-tracking functionality applies not only to life science applications, but also to any operating facility requiring continuous design compliance validation, including those falling under Nuclear Regulatory Commission, Environmental Protection Administration, and Occupational Safety and Health Administration regulations.
SPONSORS

AceCad
AceCad Software will be featuring its StruPlant solutions for the Structural Supply Chain. AceCad is a leading supplier of software solutions to the international structural steel industry since 1986. With core business areas in the Building and Construction, and Plant industries, AceCad products have consistently transformed its customers’ business in the steelwork fabrication supply chain. AceCad has over 2000 customers in 80 countries, with international operations in over 20 offices, supporting a global network of sales, support and services.

CAXperts develops standardised and customised utilities and is well-known for professional IT services that span from business analysis and process and system architecture to system hosting, implementations, integrations, and customisations to content management and project support services. All the activities are built on Intergraph's PDS® and SmartPlant products. The specialty of CAXperts is the development of useable, workflow-oriented, and efficient IT solutions. The expertise of CAXperts has been proven in innumerable projects around the world, and the company has offices in Germany, Singapore, Australia, and India.