



Intergraph® Process, Power & Marine Training Classes

Monday, June 2, 2014

Paid training sessions have limited seats and are available only on a first-come, first-served basis. Classes must be purchased for an additional fee of US\$300 each.

To sign up for one or more of these sessions, simply register for HxGN LIVE at hxgnlive.com. As part of the online registration process, you can also purchase these training sessions.

8:00 a.m. – 12:00 p.m.

1500 | Work Process Guides for SmartPlant® P&ID Design Collaboration

Around the globe, design collaboration has become inevitable in projects of all sizes. In this session, attendees will learn how SmartPlant® P&ID can help them to achieve P&ID modeling collaboration and, more importantly, seamless data migration at low cost. The selected work processes, demonstrated via hands-on activities, will cover a variety of scenarios, including: data split and merge between multiple EPCs and handover to owner; technology OEM delivering design data following the EPC design basis; and managing revamp projects on an as-built plant.

1501 | Using SmartPlant Fusion

SmartPlant Fusion enables the rapid capture and indexing of unstructured, legacy data sources such as documents, drawings, and the tag data contained within them. SmartPlant Fusion builds on SmartPlant Foundation's well-known, structured information-handling capabilities to capture and present the valuable information contained in your existing documentation (scanned images, PDF files, vendor documents, and CAD files) via an intuitive portal environment.

To cope with the many formats of information sources, systems must be able to handle both structured and unstructured information – but in a managed way. SmartPlant Fusion makes use of various technologies for extracting intelligence from a myriad of document types using technologies such as OCR and intelligent format recognition. New aliasing capabilities enable searching and graphical navigation across the entire set of information, even if the tag/asset name is slightly different on various documents.

This session will give attendees a chance to use SmartPlant Fusion to search for and display a captured set of documents, drawings, and tags. Next, students will be shown how to configure and capture an additional set of unstructured engineering data.

1502 | Intergraph Smart™ 3D Drawing Enhancements

Intergraph Smart™ 3D 2014 R1 has added significant new enhancements to the orthographic drawings workflow. The label rule manager gives users the ability to edit label rules within Smart 3D. Users can move drawings and components and copy composed drawings. Any CAD drawing can now be managed in the Smart 3D drawing console. A new type of snapshot view of only visible objects leads to significant performance gains in update time. Better support for conditional labeling results in cleaner drawings. This session will focus on new enhancements through hands-on exercises and demonstrations.

1503 | Intergraph Smart 3D Performance Best Practices

Optimal operating conditions for a Smart 3D environment are achieved by proper configuration of database servers, workstations, and network topology, routine maintenance activities, and proactive client/server performance monitoring. This session will focus on the analysis of performance metrics, available tools for performance monitoring, and best practices for optimizing performance through hands-on exercises and demonstrations.

1504 | Intergraph Smart 3D Integration Enhancements

Smart 3D 2014 has added a common design basis viewer, which is a single location to review all information that has been retrieved into the 3D model from SmartPlant Foundation. Smart 3D offers significant enhancements to the auto-correlation functionality, such as the ability to use tagged and pre-correlated items and correlation of pump nozzles that are not named. The ability to easily uncorrelate objects has been added. Plus, the workflow to manage cable integration between SmartPlant Electrical and Smart 3D has been enhanced. This session will focus on common workflows through hands-on exercises and demonstrations.

1505 | Introduction to SmartPlant Interop Publisher 2015

This class will provide an overview of the underlying technology, basic workflows, and powerful features included in the 2015 release of SmartPlant Interop Publisher. It is built on the proven technology of Intergraph Smart 3D, SmartPlant Review, and SmartPlant Foundation. SmartPlant Interop Publisher offers a new set of tools for executing capital projects with the technical sophistication and logistical agility that large projects require. SmartPlant Interop Publisher simplifies project configuration by offering an effective and innovative integration of multiple 3D model formats, including PDS®, PDMS, PlantSpace, MicroStation, AutoCAD®, CADWorx®, CAESAR II®, or from multiple Smart 3D sources.

1:00 – 5:00 p.m.**1506 | SmartPlant Electrical 2014 Cable Management and Integration with Intergraph Smart 3D**

SmartPlant Electrical 2014 offers new improvements in the cable and drum management system. Data exchange with Smart 3D saves engineering time and cuts project costs through the design, procurement, and construction phases of the life cycle.

During the workshop, attendees will perform a real electrical project design workflow, starting with a review of estimated cables on drums in the basic engineering phase, continuing with detail engineering, and creating an electrical system. The session will focus on cable routing and drum capabilities such as the advance routing user interface for parallel and single-core cable assembly, dealing with project changes, designing simple raceway systems, and defining a “drop of” segment. The workshop will also

feature optimizing cable on drum and more, simplifying design, and shortening routing time when dealing with a complex cable network. Attendees will learn how to manage electrical building cables that are going to be routed in SmartPlant Electrical and also field cables that will be published to Smart 3D for routing.

This is an excellent complementary workshop to session 1504: Intergraph Smart 3D Integration Enhancements.

1507 | SmartPlant Reference Data Plus Enhancements for Intergraph Smart 3D

SmartPlant Reference Data (SPRD) Plus offers many new features, such as Smart 3D integration and enhanced geometric rule management. The Component Management System in SPRD Plus enables easy management of non-piping content with attribute-based commodity codes. This application helps users to easily define data by copying and pasting records and values. Data can also be copied and pasted from Microsoft Excel spreadsheets, lowering data entry costs. In addition, the Standard Database for SPRD has been enhanced with non-piping content and provides a consolidated hierarchy to serve all content needs. In this session, students will be introduced to the new features offered by SPRD Plus and Standard Database for SPRD. They will also be led through typical workflows to create new classes and idents and transfer them to Smart 3D.

1508 | SmartPlant Instrumentation 2015: Engineering Data Access and Editing

A step change has been made in accessing, editing, and modifying the engineering data in SmartPlant Instrumentation. In the upcoming version of SmartPlant Instrumentation, the new query builder and Engineering Data Editor (EDE) will significantly enhance user experience by enabling engineering data access using engineering language and terminology. No knowledge of the data model is required and users can focus on the task at hand.

EDE offers a familiar method, like a Microsoft® Excel® spreadsheet, to generate an editable browser from the query builder. The EDE is equipped with enhanced view and compare capabilities, such as an advanced search mechanism; the ability to sort, filter, and group the data; as well as cross-EDE comparison. In combination with the query builder, a data view can be created that is tailored for the task.

1509 | Intergraph Smart 3D Assembly Hierarchy for Construction Modules

The planning task in Smart 3D enables users to manage the assembly hierarchy. Parts and spools can be organized into blocks, assemblies, and sub-assemblies representing construction areas and modules. Several kinds of drawings and reports needed for modular construction, including piping isometric drawings based on assembly hierarchy, assembly method, and sequence drawings, and weight and center-of-gravity reports, can be created using Smart 3D. This session will focus on common workflows through hands-on exercises and demonstrations.

1510 | 4D Animation of the Path of Construction

In this session, students will use SmartPlant Construction to build construction work packages, determine a construction schedule, and animate the planned path of construction within the 3D model view.