



2009 IPS NACC Agenda Descriptions

Track	Brand	Time	Description
Plenary	All	Monday, 8:00-10:10	<p><u>2009 IPS NACC Plenary Session</u> The opening session for the North American Client Conference will focus on two keynote speakers that articulate and demonstrate what can be accomplished when training, agility, change management and team work all come together in an effort to achieve sustainable performance. The session will start with a brief welcome by Steve Blair, North America President of Invensys Operations Management.</p> <p>Second, hear Ken Anderson from ExxonMobil talk about the devastation Hurricane Ike caused when it made landfall on the East Texas Coast packing Category II winds and giving rise to what can be classified as a Category IV equivalent storm surge. This presentation provides a photo expose of the damage to the overall manufacturing facility along with a commentary on how ExxonMobil Chemical Company successfully staged what would turn out to be one of the largest plant control system turnarounds in the Company's history and without the time normally afforded to plan, staff, and execute such an activity.</p> <p>Finally listen to Jeff Skiles, the co-pilot of US Airways Flight 1549, who will discuss the spectacular landing in the Hudson. In his humble, Midwestern style, Skiles explains the key lessons of teamwork, adaptability, training, and preparation that he and his crewmates relied on that day, relating these concepts to the daily lives of individuals and organizations.</p>
Brand	Avantis	Monday, 10:30-12:00	<p><u>Avantis Brand Session</u> This opening session for the Avantis Asset Management track will provide an overview of the strategy and roadmap.</p> <p>Kim Custeau & Silvia Cosme (IOM)</p>
Technical	Avantis	Monday, 1:00-1:50	<p><u>Release 5.0 Overview</u> It's here! Release 5.0 is ready! There will be several opportunities for you to see Release 5.0 but this presentation will provide an overview of the contents. A key component of Release 5.0 process was the Customer Involvement Program. You'll hear how the program worked and why it will make a difference to those considering an upgrade to 5.0.</p> <p>Lori Ciafaloni & Silvia Cosme (IOM)</p>
Technical	Avantis	Monday, 2:00-2:50	<p><u>Release 5.0 Readiness – the future is now!</u> Anyone that is considering upgrading to the 5.X series of Avantis.PRO needs to attend this session. Database upgrades, project planning, training etc. will all be discussed in this workshop.</p> <p>Lori Ciafaloni & Lydia Sankey (IOM)</p>



Track	Brand	Time	Description
Technical	Avantis	Monday, 2:00-2:50	<p><u>Leverage Advanced Features in Release 4.2</u> Customers that are thinking about innovative ways to improve with Release 4.2 need to attend this session. If you are considering an upgrade to 4.2 or have been using it for awhile, this session will teach you about the new and advanced features in 4.2 and how these new functions can bring value to your organization.</p> <p>Morag Walsh (IOM)</p>
Technical	Avantis	Monday, 3:10-5:00	<p><u>Show and Tell – Part I</u> These mini-sessions enable clients, partners and InvenSys Consulting to "show and tell" aspects of their creative usage of Avantis and other applications developed to extend standard Avantis functionality. An itemized list of presentations will be distributed onsite.</p> <p>Silvia Cosme (IOM); On-site agenda</p>
Technical	Avantis	Tuesday, 8:00-8:50	<p><u>Approvals for Maintenance</u> This session will focus on innovative ways to use the Approval module to streamline and control your business processes in the area of Maintenance Management.</p> <p>Zoe Richardson (IOM)</p>
Technical	Avantis	Tuesday, 8:00-8:50	<p><u>Case Study - Streamlining the Procurement Process (CF Industries)</u> This presentation will highlight the automated procurement process implemented by CF Industries using Avantis PRO.</p> <p>CF has achieved a significant reduction in the clerical/transactional effort required to manage the purchase catalog, primary vendors and prices, and request/purchase/pay process using Avantis Pro, InvenSys provided programming API's, InvenSys partner product: B2B Connex Supply Chain Collaboration and the services of InvenSys partner IMA Ltd. for professional catalog management.</p> <p>The functional process flow, system configuration considerations, and API components used will be discussed.</p> <p>Dave Wiedenfel (CF Industries)</p>
Technical	Avantis	Tuesday, 9:00-9:50	<p><u>Rotating Equipment Health Opportunities</u> This session will explore the critical success factors that drive to reduce costs & improve the availability and overall reliability of critical assets. The presentation will deliver a balanced and integrated view applicable to a wide variety of critical assets.</p> <p>The focus of the IOM Rotating Equipment Health solution, which utilizes stress wave analysis in addition to voltage and current analysis to monitor the real-time health of your assets in operation and condition management processes and to integrate this directly to your enterprise systems.</p> <p>Juan Collados & Mike Scholman (IOM)</p>



Track	Brand	Time	Description
Technical	Avantis	Tuesday, 9:00-9:50	<p><u>Leveraging the Approval Module for Materials Management</u> This session will focus on innovated ways to use the Approval module to streamline and control your business processes in the area of Materials Management.</p> <p>Zoe Richardson (IOM)</p>
Technical	Avantis	Tuesday, 9:00-9:50	<p><u>The New Integration Toolkit Release 5.0</u> With Release 5.0 comes an upgraded Integration Toolkit. This presentation will provide an overview of the new ITK, contrasting its capabilities and advantages vs. API and direct database I/O. The presentation will include an example of typical integration point, demonstrating information loading into & extracting from Avantis.</p> <p>John Dillon (IOM)</p>
Technical	Avantis	Tuesday, 10:10-11:00	<p><u>Asset Health Indicators – New Asset Intelligence</u> This session will focus on the issues faced with dealing with numerous, specialized solutions for monitoring asset health; the applicability of management hierarchical views consolidating the health of hundreds or thousands of assets in real time providing actionable information leveraging data from plant floor and enterprise systems.</p> <p>Isauro Martinez-Cairo & Juan Collados (IOM)</p>
Technical	Avantis	Tuesday, 10:10-11:00	<p><u>Implementing DSS to Visualize Your Key Performance Indicators.</u> This presentation will provide you with an overview of the Avantis Decision Support tool and an understanding of how Avantis Consulting can help tailor the tool specifically for you. Learn how DSS can provide your organization with real-time Key Performance Indicator information to aid in decision making.</p> <p>Mike Scholman & Lydia Sankey (IOM)</p>
Technical	Avantis	Tuesday, 11:10-12:00	<p><u>Ask a Buddy Panel – Maintenance</u> One of the great benefits of our Client Conference is the customer interaction and networking. This session is intended to take advantage of the Maintenance knowledge within the customer base and convey it to others in an open Q&A environment.</p> <p>Maggie Mesonero (IOM)</p>
Technical	Avantis	Tuesday, 11:10-12:00	<p><u>Case Study: Storeroom Crib Project (Harley-Davidson)</u> This presentation will focus on improvements made in the Maintenance and Repair Organization (MRO) crib at Harley-Davidson's Pilgrim Road plant in Menomonee Falls, WI. Included are the "before" and "after" conditions and the steps taken to realize the improvements. Net impact on Operations will be covered.</p> <p>Eileen Whisler (Harley-Davidson)</p>



Track	Brand	Time	Description
Technical	Avantis	Tuesday, 11:10-12:00	<p><u>Microsoft Tips! Windows Shortcuts & Utilizing Office 2007 features with Avantis.</u> Take away from the conference several MS Windows shortcuts you can take advantage of right away! Plus, one of the great features of Avantis is the tie or integration to the Microsoft applications. This session will show you some time saving features that will take advantage of Office, Mail, Project etc. with Avantis functional scenarios.</p> <p>Peter Barbier & Dan Marsillo (IOM)</p>
Technical	Avantis	Tuesday, 1:00-1:50	<p><u>Ask a Buddy Panel – Materials Management</u> One of the great benefits of our Client Conference is the customer interaction and networking. This session is intended to take advantage of the Materials Management knowledge within the customer base and convey it to others in a open Q&A environment.</p> <p>Maggie Mesonero (IOM)</p>
Technical	Avantis	Tuesday, 1:00-1:50	<p><u>Managing Shutdowns (Preparation, Execution and Data Management) Part I</u> Follow a shutdown/turn-around with CF Industries, Donaldsonville, LA with this double session lead by the maintenance planning, engineering and operations team! Attend this session to learn how CF Industries utilizes Avantis and other tools in preparing, executing and analyzing data related to facilitating a major turnaround. This session will be accomplished in two parts.</p> <p>Steve Acosta, David Fauchaux, Mark Dubreuil, & Troy Sholmire. (CF Industries, Donaldsonville)</p>
Technical	Avantis	Tuesday, 2:00-2:50	<p><u>Managing Shutdowns (Preparation, Execution and Data Management) Part II</u> The continuation of ... Follow a shutdown/turn-around with CF Industries, Donaldsonville, LA with this double session lead by the maintenance planning, engineering and operations team! Attend this session to learn how CF Industries utilizes Avantis and other tools in preparing, executing and analyzing data related to facilitating a major turnaround.</p> <p>Steve Acosta, David Fauchaux, Mark Dubreuil, & Troy Sholmire. (CF Industries, Donaldsonville)</p>
Technical	Avantis	Tuesday, 2:00 – 2:50	<p><u>Mobile Workforce</u> Mobile solutions will enable manufacturers to manage the processes and procedures used to ensure consistent execution of all field tasks required to achieve reliable operations. Increasing 'wrench time', more effective use of resources (people, materials and equipment etc.) and more accurate data are just a few of the benefits organizations have seen once they have implemented mobile solutions. This interactive session is intended for those that would like to learn more about the technology, explore field applications and discuss the synergies between mobile solutions and Avantis from a functional business flow perspective.</p> <p>David Dollar & Jim Frider (Invensys Mobility)</p>



Track	Brand	Time	Description
Technical	Avantis	Tuesday, 3:10-4:00	<p><u>Case Study – Leveraging MS Project with Avantis</u> CF Industries implemented the Microsoft Enterprise Project Management System in an effort to better manage and report on Capital Projects and Turnaround activities. This project required integration considerations with our Avantis Asset Management System. This session will explain how we configure Project Assets and track Project Expenditures in Avantis while providing Project Progress and Financial reporting via the Microsoft Project Management System workspace.</p> <p>Larry Rasmussen (CF Industries Inc.)</p>
Technical	Avantis	Tuesday, 4:10-5:00	<p><u>Show & Tells – Part II</u> These mini-sessions enable clients, partners and InvenSys Consulting to "show and tell" aspects of their creative usage of Avantis & other applications developed to extend standard Avantis functionality. An itemized list of presentations will be distributed onsite.</p> <p>Silvia Cosme (IOM); On-site agenda</p>
Brand	Foxboro	Monday, 10:30-12:00	<p><u>Foxboro Brand Session</u> Following introductions and opening remarks presentations will be made on the new products releases and product roadmap.</p> <p>Betty Naylor-McDevitt (IOM)</p>
Technical	Foxboro	Monday, 1:00-1:50	<p><u>Infusion For The Installed Base – What’s Right For You</u> Mr. Johnson will review with the audience the most commonly asked questions about InFusion ECS and its relationship to the I/A Series system. Topics will include comparisons among configuration tools (ICC, ICC Driver Task, FoxCAE, IACC, and IEE), between HMIs (FoxView and InFusion View), historians (AIM*Historian and InSQL Historian) and an overview of the functionality of the InFusion Application Environment as a platform for the development of User created applications.</p> <p>Alex Johnson (IOM)</p>
Technical	Foxboro	Monday, 1:00-1:50	<p><u>Upgrading From Unix to Windows – Infineum Case Study</u> Terry Deo of Infineum and Foxboro Steering Committee Chairman will share his experience of upgrading from UNIX to Windows XP. Once noted to have vowed 'Out of my cold dead hands', Terry has now been heard to say - 'this Windows stuff is not as bad as I thought'. During this session Terry will provide lessons learned and helpful tips for others planning a similar upgrade.</p> <p>Terry Deo (Infineum) & Bob Palmerini (IOM)</p>



Track	Brand	Time	Description
Technical	Foxboro	Monday, 2:00-2:50	<p><u>IEE Improved Engineering Productivity</u> Clients are continuously challenged to improve productivity, do more with less and improve quality. In this session, Jim Rathbun, a Principal Technical Specialist with Invensys will demonstrate new built-in engineering capability designed to address these needs.</p> <p>Jim Rathbun (IOM)</p>
Technical	Foxboro	Monday, 2:00-2:50 Tuesday, 8:00-8:50	<p><u>100 Series I/O Migration – Easy Upgrade Without Rewiring</u> I/A Series System clients have a large number of 100 Series FBMs installed. IOM will continue to support these installed FBMs for many years to come. However, with the maturity of 100 Series FBMs, many clients want to know what IOM is doing to migrate their installed FBMs. This session will offer insights into the current development progress for migrating the Foxboro I/A 100 Series to 200 Series, and provide details of the proposed offering.</p> <p>Matt DeAthos (IOM)</p>
Technical	Foxboro	Monday, 3:10-4:00	<p><u>Cyber Security Compliance – Protect Your Plant</u> All industries are increasingly concerned with making their facilities secure and compliant with the emerging security standards. Our workstations are enhanced to provide password authentication and platform hardening. Compliance however goes well beyond the system hardware. Our security experts will share with you, improvements required to your processes and procedures.</p> <p>Matt DeAthos (IOM) & Doug Clifton (IOM)</p>
Technical	Foxboro	Monday, 3:10-4:00	<p><u>Expert Loop Tuning – Optimize Your Process</u> The application of a PlantTriage system at the SABIC plant in Selkirk NY has yielded significant performance and economic benefits. This session will review these benefits and how they were achieved by addressing issues identified by PlantTriage.</p> <p>Lew Gordon (IOM)</p>
Technical	Foxboro	Monday, 4:10-5:00	<p><u>FDT & Fieldbus – Any Bus, Anywhere</u> Sensors and actuators communicating digitally to automation systems have become the norm, not the exception. These technologies are major enablers of more advanced asset management approaches. With conventional instrumentation maintenance approaches were limited to either reactive repair or scheduled inspection. Now the new technologies enable a full array of maintenance practices such as predictive, reliability centered, and proactive maintenance. The built-in condition monitoring and analysis functions internal to the instruments are becoming ever more sophisticated and device vendor specific. Improving industry standards for asset management will enable instrument asset management systems to better deal with the specialization within each device. This session will discuss trends in asset management systems and the role that industry standards such as device descriptions and FDT Device Type Managers play in enabling improved asset management in a multi-vendor environment.</p> <p>Charlie Piper (IOM)</p>



Track	Brand	Time	Description
Technical	Foxboro	Monday, 4:10-5:00	<p><u>RemoteWatch: Connectivity Lifeline</u> Manufacturing facilities are located in all parts of the world, from dense industrial areas to locations that are isolated and often difficult to physically reach quickly. In addition, operations management is growing more sophisticated and requires a broad depth of talent and experience in order to sustain highly productive and safe operations over the lifecycle of the production asset. Furthermore, experienced workers in key and unique disciplines are often scarce and globally distributed, and frequently working far away from where their skills are needed when a problem arises in another location. This session focuses on how IOM RemoteWatch can help address and overcome these issues, in addition to delivering our clients sustainable system performance by pro-actively identifying trends and errors at an early stage in their development, and averting potentially serious problems.</p> <p>Matt DeAthos (IOM)</p>
Technical	Foxoboro	Tuesday, 8:00-8:50	<p><u>Back-Documentation Software – Plant Information at Your Fingertips</u> Continuous Documentation of all plant systems including the DCS, PLC and information systems is an issue at many plant sites. IOM Delivery has begun using the PAS Integrity software to facilitate global project delivery processes and provide improved documentation methods for many different plant systems in a single location and viewing window.</p> <p>Mike Flint (IOM) & John Bergen (Chevron)</p>
Technical	Foxoboro	Tuesday, 9:00-9:50	<p><u>Transition Tips, Unix to Windows Made Easy</u> This session will demonstrate some of the often overlooked utilities provided on the P90/P91 platforms and ways to configure these to make the transition from Unix to Windows easier. There will also be some practical tips on automating common tasks for control engineers.</p> <p>Dave Johnson (Premier Systems)</p>
Technical	Foxoboro	Tuesday, 9:00-9:50	<p><u>CP Based Batch Processing</u> This presentation presents a suggested methodology for using the features of the MON, EXC, DEP and IND sequence blocks for batch processing. This methodology provides for the S88 processing states (Hold, Abort, Restart, etc.), providing consistent and safe operation of the process. This gives a good example for deploying the designed in features of the I/A block set.</p> <p>Rick Mol (Coyote Technologies) & Daren Moffatt (IOM)</p>



Track	Brand	Time	Description
Technical	Foxboro	Tuesday, 10:10-11:00	<p><u>Backup & Restore – Streamline Your Maintenance Procedures</u> Maintaining system availability can be a full time job. Using the I/A Series Backup & Restore solutions for Windows and Solaris will improve plant productivity by minimizing workstation downtime, thus saving you time and money. Feel confident that if you have a workstation hard drive failure, you can recover within minutes, not hours, and thus minimizing server downtime with fast and reliable restores capability.</p> <p>How much will one hour of downtime cost your business? Hear how one IOM customer has implemented the B&R solution at their site. Learn about their first hand experiences and the benefits gained. The I/A Series disk-to-disk Backup & Restore solutions for Windows and Solaris offer plant wide workstation reliability while gaining the peace of mind that your most critical Process Control data is protected.</p> <p>Bill Juhr (IOM) & Tim Lowell (Tesoro)</p>
Technical	Foxboro	Tuesday, 10:10-11:00	<p><u>Mesh Upgrades – Increased Performance, Capacity & System Reliability</u> Guidelines on the differences between the various installation options available including, and guidelines for proper installation and functioning of the Mesh network. In this session our experts will share with you lessons learned, do's and don'ts on the proper installation of a Mesh network.</p> <p>Matt DeAthos (IOM)</p>
Technical	Foxboro	Tuesday, 11:10-12:00	<p><u>Excellence in Project Execution</u> All industries are seeking ways to reduce project lifecycle costs and project durations, while reducing associated risks and maintaining or improving the quality of the delivered systems. Our experts will take you through the new package of internal tools and processes that the Invensys global delivery team has developed that can meet these expectations. You will see demos and real examples of how this approach can:</p> <ul style="list-style-type: none"> • Give you more time to firm up requirements and define project data • Automatically validate your design before configuration • Test your system throughout the lifecycle • Use medium fidelity simulation for earlier operator training <p>These tools and techniques are available today and they can work on your next project.</p> <p>Irvine Wilson (IOM)</p>
Technical	Foxboro	Tuesday, 11:10-12:00	<p><u>Competitive Migration – Avoid Unnecessary Outages</u> Analysts estimate \$65 Billion in automation systems are approaching an end of life situation. When faced with a system migration or plant modernization, achieving sustainability and cost savings are a major end-user objective – especially in today's economy. This presentation shares best practices in attaining a cost-effective and smart system upgrade by preserving existing investments, and minimizing process impact and risk while leveraging the latest technology. Ryne Okimura of Tesoro Kapolei Refinery will share his legacy Bailey controls to I/A Series system migration story with the group, highlighting project details & results, and lesson learned. Graham Bennett, Sr Migration TSC at IOM will also be on hand to share his field expertise, tips and tricks and give a demo of IOM' unique plug-in migration solution.</p> <p>Ryne Okimura (Tesoro) & Amanda Smith (IOM)</p>



Track	Brand	Time	Description
Technical	Foxboro	Tuesday, 1:00-1:50	<p><u>Intrinsically Safe I/O</u> Invensys has teamed up with Pepperl+Fuchs, a leading supplier of intrinsically Safe solutions to introduce a highly integrated line of Intrinsically Safe I/O for the I/A Series system. The Intrinsically Safe I/O modules are directly mounted in hazardous locations and designed to ensure the electrical or thermal energy generated, is well below the threshold to cause ignition in the presence of flammable gases or vapors, combustible dusts, or ignitable fibers. In this session Karsten Fischer of P+F will discuss the value of this solution over traditional methods such as explosion proof cabinets.</p> <p>Karsten Fischer (Pepperl+Fuchs)</p>
Technical	Foxboro	Tuesday, 1:00-1:50	<p><u>Lifecycle Mgmt & Performance Advantage</u> In these changing economic times, the pressure of increased prices and decreased demand for products and services is causing everyone to seek better ways to keep automation systems running at peak performance. IOM Performance Advantage combines Lifetime Service Agreements with the Advantage Upgrade program to help you sustain your investment and intellectual property, while adopting and embedding new technologies as they emerge throughout the lifecycle of your production assets. Essentially, we can provide assistance in planning, documenting and executing an evergreen approach for your IOM systems for the life of your plant. This session will discuss IOM Protect – Renew – Sustain offerings, with a focus on planning for future upgrades.</p> <p>Gayle Hicks (IOM)</p>
Technical	Foxboro	Tuesday, 2:00-2:50	<p><u>FCP vs. ZCP - Making the Right Choice</u> Mr. Johnson will compare and contrast the two available MESH based controllers. The presentation should prepare users to make informed decisions when they are faced with controller upgrades. The presentation will cover hardware differences, software differences, and I/O attachment differences.</p> <p>Alex Johnson (IOM)</p>
Technical	Foxboro	Tuesday, 2:00-2:50	<p><u>Expert Alarm Management – Improved Operator Efficiency</u> This presentation will introduce the participants to advanced alarming (also known as intelligent or smart alarming) concepts and methods of application. This will include the identification of advanced alarming opportunities, using actual customer data, and defining appropriate methods to apply given different alarm scenarios. The application of Advanced Alarming allows customers who have undergone an alarm rationalization effort to work towards ensuring that only valid alarms are annunciated to the operator under all conditions and states. It is recommended that participants be familiar with basic alarm management concepts.</p> <p>Danny Allen (IOM) & Neil Martin (Huntsman)</p>



Track	Brand	Time	Description
Technical	Foxboro	Tuesday, 3:10-4:00	<p><u>Using Wireless Technology To Improve Plant Performance</u> Things are moving very quickly in the industrial wireless world today. Where only two years ago industrial process enterprises were strictly forbidding any wireless technologies, today most enterprises are either experimenting with or implementing wireless solutions. Small-scale implementations offer easy entrance into these new technologies and still have a compelling ROI. This presentation will describe what is driving the market, helping to understand the technology and exploring the constraints and enablers of industrial wireless solutions. We will then discuss utilizing wireless technology at all levels of the enterprise via a range of highly valuable solutions. After that, we will discuss why operator mobility solutions are today's most sought-after applications. We will conclude by providing a brief update on the developing standards in wireless sensors and reviewing a number of real-world implementations, taking a look at their success as well as some common bumps in the road.</p> <p>Hesh Kagan (IOM)</p>
Technical	Foxboro	Tuesday, 3:10-4:00	<p><u>Operator Training Simulators</u> Dynamic Simulation can be used for the entire plant life cycle. SimSci-Esscor's Dynamic Simulation Suite (DSS) consists of Dynsim, FSIM Plus for Foxboro I/A, and TRISIM Plus for Triconex control system modeling. This session reviews the use of dynamic simulation to perform process engineering studies, to checkout DCS, TMC, and Safety controls, and to develop operator training simulators (OTS).</p> <p>Cal Depew (IOM)</p>
Technical	Foxboro	Tuesday, 4:10-5:00	<p><u>Future Needs Roundtable</u> Feedback session designed to hear from our users current and future challenges and needs for their operations people.</p> <p>Betty Naylor-McDevitt (IOM)</p>
Technical	Foxboro	Tuesday, 5:00-6:00	<p><u>Cassandra Users Meeting</u> Opportunity for users to meet to discuss common issues and future needs.</p> <p>Dave Johnson (Premier Systems)</p>
Brand	SimSci-Esscor	Monday, 10:30-12:00	<p><u>SimSci-Esscor Brand Session</u> This is a welcome session to outline the agenda, topics, and an overview of the meeting logistics.</p> <ol style="list-style-type: none"> Welcome & Agenda Overview by Dr. Tobias Scheele (IOM) The Roles Of Software Tools In Accelerating Competency Development: Dr. Saidas M. "Sai" Ranade, RWD Technologies, LLC, Houston, Texas Green Engineereing Overview by Joseph McMullen (IOM)



Track	Brand	Time	Description
Technical	SimSci-Esscor	Monday, 1:00-2:50	<p><u>Green Engineering</u> This session will contain information and presentations not only on the application of SimSci-Esscor software in the new and emerging "green" markets, but also more traditional uses of our software to make processes more environmentally friendly.</p> <ol style="list-style-type: none"> Simulation of Solid Fuel Gasification in PRO/II by Peter Rozelle (D.O.E) Progress Toward Establishing Netl's IGCC Dynamic Simulator Research And Training Center by Richard Turton (West Virginia University)
Technical	SimSci-Esscor	Monday, 3:10-5:00	<p><u>Green Engineering (Continued)</u> This session will contain information and presentations not only on the application of SimSci-Esscor software in the new and emerging "green" markets, but also more traditional uses of our software to make processes more environmentally friendly.</p> <ol style="list-style-type: none"> Energy Management by Dr. Peter Martin (IOM) Economics Of Manufacturing Biodiesel From Soy Oil In Eastern Canada by James Grey (Queens University) Manufacturing Biodiesel From Soya Oil In Eastern Canada by Paul Lem (Queens University) Roadmap Overview by Dr. Harpreet Gulati (IOM) SimSci-Esscor Closing & Overview of Tuesday's Agenda by Joseph McMullen (IOM)
Technical	SimSci-Esscor	Tuesday, 8:00-9:50	<p><u>HPI & CPI Technical Track 1</u> This session will focus on presenting information, application examples, and success stories from the Hydrocarbon Processing & Chemical Processing Industries.</p> <ol style="list-style-type: none"> Welcome & Agenda Overview by Dr. Harpreet Gulati (IOM) Deer Park DU2: The First ROMEo Application --10+ Years Later by Rick Linn & Michael Chisholm (Shell Global Solutions) HPI & CPI Development Roadmap by Hapreet Gulati (IOM)
Technical	SimSci-Esscor	Tuesday, 8:00-9:50	<p><u>Upstream Technical Track 1</u> This session will focus on presenting information, application examples, and success stories from the Upstream Industry.</p> <ol style="list-style-type: none"> Welcome & Agenda Overview by Joseph McMullen (IOM) Accuracy Of The Prediction Of PRO/II Thermodynamic Models For HC/Polar Mixtures by Pierre Duchet-Suchaux (Total) Upstream Development Roadmap by Joseph McMullen (IOM)
Technical	SimSci-Esscor	Tuesday, 8:00-9:50	<p><u>Power Technical Track 1</u> This session will focus on presenting information, application examples, and success stories from the Power Industry.</p> <ol style="list-style-type: none"> Welcome & Agenda Overview by Lori-Ann Gazzola (IOM) FGD Simulator Training A Path To Operational Readiness by Herman Stone (Fossil Consulting Services) Power Development Roadmap by Cal Depew (IOM)



Track	Brand	Time	Description
Technical	SimSci-Esscor	Tuesday, 10:10-12:00	<p><u>HPI & CPI Technical Track 2</u> This session will focus on presenting information, application examples, and success stories from the Hydrocarbon Processing & Chemical Processing Industries.</p> <ol style="list-style-type: none"> Dynamic Simulation of a Centrifugal Compressor and Controls by Blaine Ahrens (Technip USA) Novel Teaching Strategies And Methods To Remove Barriers To Software Use by Dr. Saldas M. "Sai" Ranade, RWD Technologies, LLC, Houston, Texas Simulating The World's Biggest Crude Unit - 1983 & 2008 by Peter Nick (WorleyParsons)
Technical	SimSci-Esscor	Tuesday, 10:10-12:00	<p><u>Upstream Technical Track 2</u> This session will focus on presenting information, application examples, and success stories from the Upstream Industry.</p> <ol style="list-style-type: none"> TLNG Operator Training Simulator Success Story by Casey Abate (Trunkline LNG) Making the Digital Oilfield Trustworthy by Stan Devries (IOM) Upstream Solutions for On-Line Monitoring and OTS by Cal Depew (IOM) Practical Experience From Online Flow Assurance Simulators For Operational Support Of Oil & Gas Production Facilities by Onno van Wolfswinkel (SPT Group)
Technical	SimSci-Esscor	Tuesday, 10:10-12:00	<p><u>Power Technical Track 2</u> This session will focus on presenting information, application examples, and success stories from the Power Industry.</p> <ol style="list-style-type: none"> Modeling The Oil To Solid Fuel Transition In A CFB Furnace - Experiences With The RRI Energy Seward Simulator by Robert Mchugh (IOM) Progress Toward Establishing Netl's IGCC Dynamic Simulator Research And Training Center by Richard Turton (WVU) Collaborative Modeling Website For IGCC Simulation by Larry Balcom (IOM) CO2 Mitigation of Blended Coals through Optimization by : Don Labbe (IOM)
Technical	SimSci-Esscor	Tuesday, 1:00-2:50	<p><u>HPI & CPI Technical Track 3</u> This session will focus on presenting information, application examples, and success stories from the Hydrocarbon Processing & Chemical Processing Industries.</p> <ol style="list-style-type: none"> Improving Steam System Design, Operation And Efficiency Using Dynamic Simulation by Abhilash Nair (IOM) Improved Prediction Of Liquid Viscosity and Thermal Conductivity Of Heavy Oils by Dave Bluck (IOM) Session Closing by Dr. Harpreet Gulati (IOM)



Track	Brand	Time	Description
Technical	SimSci-Esscor	Tuesday, 1:00-2:50	<p><u>Upstream Technical Track 3</u> This session will focus on presenting information, application examples, and success stories from the Upstream Industry.</p> <ol style="list-style-type: none"> 1. CMG's STARS Reservoirs Simulation for the SAGD by James Erdle (CMG) 2. Interface between PIPEPHASE and CMG's STARS demonstration by Larry Balcom (IOM) 3. ESP (Electrical Submersible Pumps) Production Optimization Using PIPEPHASE And NETOPT by Alexander Chamorro (IOM) 4. Oilsands - How To Optimize Your Process Using SIMSCI Tools (From Design Through To Operations) by Brad Sobey (IOM) 5. Session Closing by Joseph McMullen (IOM)
Technical	SimSci-Esscor	Tuesday, 1:00-2:50	<p><u>Power Technical Track 3</u> This session will focus on presenting information, application examples, and success stories from the Power Industry.</p> <ol style="list-style-type: none"> 1. Automatic Generation Of Dynism Models From Piping And Instrumentation Diagrams by Greg McKim (IOM) 2. Guidelines & Standards : How They Will Effect Control System Software Configuration by Peter Guhl (IOM) 3. Operations Improvements for Hydroelectric Plants by William Poe (IOM) 4. Elecsolve: Dynamic Modeling of Power Plant Electrical Systems by Johan Prinsloo (IOM) 5. Session Closing by Cal Depew (IOM)
Technical	SimSci-Esscor	Tuesday, 3:10-5:00	<p><u>Process Engineering Session</u> This session will explore successful application within process engineering design that can be applied across many industries.</p> <ol style="list-style-type: none"> 1. Manufacturing Science Models That Address Quality By Design And Risk Assessments by Dennis Brandl (BR&L Consulting, Inc) 2. Use Of PHASTFX With VISUAL FLOW by Mike Johnson (DNV Software) 3. Heat Integration Affects - A Common Mistake When Evaluating A Flare Header by Jason White (Smith & Burgess Llc) 4. Pinch & Synthesis Using HEXTRAN by Ted McKeenan (IOM)
Brand	Triconex	Monday, 10:30-12:00	<p><u>Triconex Brand Session</u> Following introductions and opening remarks by Scott Mourier, Chairman of the Triconex Users Group, Joe Scalia of InvenSys Operations Management will present product updates, discuss releases, and share the product roadmap.</p> <ol style="list-style-type: none"> 1. Opening Remarks by Scott Mourier (Dow) 2. Welcome and Product Updates by Joe Scalia (IOM)



Track	Brand	Time	Description
Technical	Triconex	Monday, 1:00-2:50	<p><u>TMC / SIS Break Out Part 1</u> This session is the first of a two-part presentation and interactive discussion series on Turbo Machinery Control (TMC) and Safety Instrumented Systems (SIS). Part 1 papers include:</p> <ol style="list-style-type: none"> 1. Dow Texas City Steam Turbine Conversion (TMC) by Ulric Roy (IOM) 2. Safety Requirement Specification - A Qualitative Approach (SIS) by Sam Roy (IOM) 3. Turbo Machinery Safety Considerations Tool (TMC) by Jim Jacoby (IOM)
Technical	Triconex	Monday, 1:00-2:50	<p><u>Nuclear Break Out – Part 1</u> This session is the first of a two-part interactive discussion series on Triconex within the nuclear industry. The sessions will be facilitated by Scott Patterson of PG&E and Mike Phillips of IOM and will focus on Triconex products and project updates. Part 1 will include the following presentations:</p> <ol style="list-style-type: none"> 1. Nuclear Safety Visual Display Unit - Overview & Availability by Mike Phillips (IOM) 2. Priority Logic Module (PLM) And 48 VDC ETP by Ajay Mishra (IOM) 3. Miscellaneous Projects Update by Steve Sykes (IOM)
Technical	Triconex	Monday, 3:10-4:00	<p><u>Panel 1 – Standards Update for Safety and Turbo Machinery Control</u> This panel session of industry experts will provide an update of the Process Safety Standards, including an opportunity for questions and discussions. Topics will include FF-SIS, Fire & Gas mitigation, burner management as an SIF, API 612 speed control/turbine shutdown, SP-99 (Cyber Security), and SIF Testing.</p> <p>Robin McCrea-Steele (IOM)</p>
Technical	Triconex	Monday, 4:10-5:00	<p><u>User Paper 1 – Refinery Delayed Coker Safety System Application</u> Kent Obre (Valero) Phil Blanchard (IOM)</p>



Track	Brand	Time	Description
Technical	Triconex	Tuesday, 8:00-8:50	<p><u>User Paper 2 - OSHA PSM Management of Change Compliance</u></p> <p>This paper will answer a number of questions and cover a number of topics about OSHA PSM Management of Change compliance including:</p> <ul style="list-style-type: none"> What is in OSHA PSM? Who has Responsibilities? What is a Change? What is Management of Change? Compliance with OSHA Process Safety Management (PSM) Compliance with EPA Risk Management Plan (RMP) Rules Requirement Specifications Process Hazard Analysis (PHA) Re-evaluation Documentation Controls and Audits Timeline Realization OSHA PSM - The 3 Years Audit <p>Presented by Ulric Roy (IOM)</p>
Technical	Triconex	Tuesday, 9:00-9:50	<p><u>Maintenance & Troubleshooting Tools and Tips</u></p> <p>This interactive session will focus on maintenance and troubleshooting tools and tips in relation to the Triconex products. The session will be facilitated by Laith Hourani of IOM and will include the following topics:</p> <ul style="list-style-type: none"> Module Fault Lights System Diagnostics Enhanced Diagnostic Monitor Routine System Maintenance OVD usage Pertinent TAB / PAN / PRN / failures review Power Supply issues Top Ten problems/issues encountered <p>Laith Hourani (IOM)</p>
Technical	Triconex	Tuesday, 10:10-11:00	<p><u>System Upgrade Considerations</u></p> <p>This session will review Triconex lifecycle support and provide a tutorial about determining when to upgrade and ensuring success.</p> <p>Alejandro Fung (IOM) & Bret Moore (IOM)</p>



Track	Brand	Time	Description
Technical	Triconex	Tuesday, 11:10-12:00	<p><u>User Paper 3 – Refinery FCCU Three-Air Blower Simulation & Retrofit Project</u> During the Cat Unit (MSCC) upgrade project for their Louisiana Refinery, Valero requested a dynamic simulation study to verify whether the capacity of the four regeneration air blowers would be sufficient for the new regenerator. The operators were not using the automatic controls currently installed on the air blower due to the complex configuration of the system and due to reliability issues, especially related to upsets and load sharing.</p> <p>Valero decided to purchase the study from InvenSYS to develop a better understanding of the options for this project. This paper details the Dynsim study that showed the capacity of the blowers with improved controls would exceed the capacity required by the new regenerator. Also presented will be details on how the model was used for training and to demonstrate to the operators how the system should be operated for optimum performance. As part of this upgrade project, Valero purchased a Triconex integrated compressor and turbine control system and Foxboro DCS. The presentation will explain the benefits gained by using the model developed in the study to validate the design for the new controls.</p> <p>Jim Jacoby (IOM) & Kent Oubre (Valero)</p>
Technical	Triconex	Tuesday, 1:00-2:50	<p><u>TMC / SIS Break Out Part 2</u> This session is the second of a two-part presentation and interactive discussion series on Turbo Machinery Control (TMC) and Safety Instrumented Systems (SIS). Part 2 will start with a TMC presentation by Ed Livingston of ExxonMobil followed by an SIS presentation and roundtable led by Joe Scalia.</p> <ol style="list-style-type: none"> 1. First-out Logic for TMC Troubleshooting (TMC) by Ed Livingston (ExxonMobil) 2. Safety Bus and How to Use the Data (SIS) by Joe Scalia & Ajay Mishra (IOM)
Technical	Triconex	Tuesday, 1:00-2:50	<p><u>Nuclear Breakout – Part 2</u> This session is the second of a two-part interactive discussion series on Triconex within the nuclear industry. The sessions will be facilitated by Scott Patterson of PG&E and Mike Phillips of IOM and will focus on recent Triconex installations. Part 2 will continue with the following presentations:</p> <ol style="list-style-type: none"> 1. Diablo Canyon Process Control Rack Installation by Scott Patterson (PG&E) 2. SONGS Non-Safety Related Chiller Controls by Francis Liu (Southern California Edison Co) 3. Ft. Calhoun’s FW Control Digital Upgrade with Foxboro’s I/A Platform by John Steinke (OPPD) 4. Columbia Nuclear Trident Project
Technical	Triconex	Tuesday, 3:10-5:00	<p><u>SIS / TMC Roundtable Discussion Q & A</u> This roundtable session, led by Scott Mourier from Dow, who is the current chair of the Triconex Steering Team, will openly discuss and moderate Q&A around safety instrumented systems and turbo machinery control. All in attendance are invited to participate in the discussion.</p> <p>Scott Mourier (Dow)</p>



Track	Brand	Time	Description
Industry		Wednesday, 8:00-12:00	<p><u>Upstream Industry</u> The Upstream Oil and Gas Industry break-out session will explore recent developments in the NA region, but focusing particularly on the dynamic on-shore “unconventional” gas sector. It will look at the drivers in this sector and Inven·sys’ solutions to meet client needs.</p> <ol style="list-style-type: none"> 1. State Of The Industry by John Gilmore (IOM) 2. Reducing CAPEX and OPEX with innovative Well Head Measurement Systems by Mike Reese (IOM) 3. Everything You Ever Wanted in a SCADA RTU by Mike Chmilewski (IOM) 4. Experience with Field Management System 5. Upstream Round Table
Industry		Wednesday, 8:00-12:00	<p><u>HPI Industry</u> This first HPI session addresses the intense challenges facing petroleum refiners and petrochemical producers and how IOM solutions /are helping them meet these challenges to remain competitive and profitable. By attending this session you will learn how Inven·sys worked with a refining client in the Middle East to successfully implement an integrated Operations Management System that combines both Inven·sys and third-party applications designed to streamline the execution of key refinery business processes. You will also learn how Inven·sys worked with a domestic U.S. refiner to apply novel on-line process stream measurement technology to improve the safety and performance of an HF alkylation unit. Lastly, you will get a glimpse into Inven·sys' view of the Refinery of the Future.</p> <p>The second session is devoted to an open forum discussion in which topics suggested by the session attendees will be voted on for discussion by all attendees. Approximately 15 minutes will be devoted to each topic.</p> <ol style="list-style-type: none"> 1. State of the HPI by Mark Peters (Penwell) 2. Production Information Management System, Orchestrating Complex Systems to Work as One by Patrick Murray (IOM) 3. Maximizing the Performance of HF Alkylation Units with Novel Applications of Proven Technology by Mark Clark (ConocoPhillips), William Poe (IOM), Marcus Trygstad (IOM) 4. A Brief Look at the Refinery of the Future by Martin A. Turk Ph.D. (IOM) 5. HPI Round Table



Track	Brand	Time	Description
Industry		Wednesday, 8:00-12:00	<p><u>Specialty Chemicals & Pharmaceutical Industry</u> Overview of the Specialty Chemicals, Pharma & Biofuels Industries & Techniques for Achieving Business Sustainability & Profitability in the current economic climate.</p> <p>The Global Financial Crisis has exacerbated an already tough business environment for producers of Specialty Chemicals, Pharmaceuticals & Biofuels - this first session outlines these intense challenges and addresses how IOM solutions are helping them meet these challenges to remain competitive and profitable. By attending this session you will learn how Inven·sys and its partner network can combine both Inven·sys and third-party applications, plus good engineering & solution design principles to streamline the execution of key chemical, pharmaceutical (and Biofuel) production business processes. You will also learn how one Inven·sys client has used sound engineering approaches to economically extend the useful lifespan of their Inven·sys DCS & Batch Management systems using virtualization. You'll also learn how Sarbanes Oxley compliance can help drive better standards & enforce best practices – all of which ultimately are steps along the path to Sustainable Advantage for your business.</p> <p>The second session is devoted to an open forum discussion in which topics suggested by the session attendees will be voted on for discussion by all attendees. Approximately 15 minutes will be devoted to each topic.</p> <ol style="list-style-type: none"> 1. State of the Spec Chem, Pharma & Biofuels Industries by Louis Meyer (IOM) 2. Virtualization to buy time for end-of-life operator interfaces by Dallas West (Genentech) 3. Manufacturing Science Models That Address Product And Process Sustainability by Dennis Brandl (BR&L) 4. Implementing Sarbanes Oxley As Industry Best Practices by Jon Thompson (IOM) 5. Specialty Chemicals & Pharmaceutical Round Table
Industry		Wednesday, 8:00-12:00	<p><u>Fossil Power Industry</u> The First Power session addresses the intense challenges facing power companies and how IOM solutions are helping them meet these challenges to remain competitive and profitable. By attending this session you will learn how Inven·sys worked with client to successfully implement system that combines both Inven·sys and third-party applications designed to improve operation excellence.</p> <p>The second session is devoted to an open forum discussion in which topics suggested by the session attendees will be voted on for discussion by all attendees. Approximately 15 minutes will be devoted to each topic.</p> <ol style="list-style-type: none"> 1. Current Trends in the Power Industry : Directions in North America by Paul DaCruz (IOM) 2. Advanced Alarming Concepts And Methods by Michael Martinez (IOM) 3. Delivering Business Value With Control Loop Monitoring by John Gerry (Expertune) 4. CO2 Mitigation of Blended Coals Through Optimization by Don Labbe (IOM) 5. Fossil Power Round Table (Topics to be solicited from attendees)



Track	Brand	Time	Description
Industry		Wednesday, 8:00-12:00	<p><u>Nuclear Industry</u> The Nuclear Power Industry Session will start with interactive presentations on a number of topics including the current state of the industry, project updates, and automation strategies followed by a round table discussion on topics selected by the audience. Presentations include:</p> <ol style="list-style-type: none"> 1. An Overview Of Invensys Focus On Nuclear Power Industry by John Polcyn (IOM) 2. Update: Diablo Canyon Safety Related Projects by Scott Patterson (PG&E) 3. Tennessee Valley Authority: Fleet Automation Strategies by Ron Jarrett (TVA) 4. Update: Invensys' China Nuclear Projects by Clayton Scott (IOM) 5. Cyber Security And Its Effect On Nuclear Plant Operation by Gaylon Hicks (TVA) 6. Round Table Discussion
Industry		Wednesday, 8:00-12:00	<p><u>Mining & Metals Industry</u> Operation Excellence is generally known as a management system integrated across critical operational functions geared towards continually improving operational performance. Functional areas such as Health, Environment, and Safety, Quality, and Human Resources are the focus of corporate-wide Operational Excellence Programs. Operational Excellence focuses on improving operational areas such as customer and vendor orientation, employee empowerment, and process and systems optimization and is widely viewed as critical to sustaining business performance improvement.</p> <p><i>Operational Excellence</i> involves the effective management of asset availability and asset utilization in the context of total resource productivity. Using real-time business performance measures to calculate the impact on overall resource productivity, manufacturers can balance and optimize across both availability and utilization, instead of limiting optimization to a single objective function. This track will focus on how to partner with a vendor, deal with obsolescence, implement an APC project and deal with making sure that Plant Metrics are strategically aligned with Corporate Strategies. In this session we will discuss managing vendor relationships, managing IT projects, improving utilization through the use of Advanced Process Control applications and dealing with equipment obsolescence.</p> <ol style="list-style-type: none"> 1. Control of Copper Teniente Smelting Units Using Integrated Advanced Control Technologies by Alan Morrow (IOM) & Mallén Gajardo (Codelco) 2. Managing Control system Obsolescence by Steve Murray (Asarco) 3. Managing an IT project in the mining Industry by Larry Rasmussen (CF Industries) 4. Managing a Vendor Partnership by Mallén Gajardo (Codelco) and Ramon Hernandez (IOM) 5. Operational Excellence in the Mining Industry by Russ Barr (IOM) 6. Maintaining system level upgrades to provide a competitive edge by Al Splettstosser (FMI)



Track	Brand	Time	Description
Industry		Wednesday, 8:00-12:00	<p><u>Pulp & Paper Industry</u> The Pulp & Paper Industry break-out session will address the unprecedented convergence of market and technological forces fundamentally reshaping the industry world-wide. It will also show how a broad range of IOM solutions are helping it to remain competitive and profitable whether facing declining or rapidly expanding markets.</p> <p>The second session is devoted to an open forum discussion in which topics suggested by the session attendees will be voted on for discussion by all attendees. Approximately 15 minutes will be devoted to each topic.</p> <ol style="list-style-type: none"> 1. State of the Industry by Roger Evans (IOM) 2. Planning and Execution of complex and time-critical upgrades by Jean Rivard (IOM) 3. Applications MPC in Pulp & Paper by William Poe (IOM) 4. Round Table Discussion
Technical	Avantis	Wednesday, 8:00-8:50	<p><u>Enhancing your PM Program</u> This session will assist you in understanding the main obstacles to achieving a sustainable, reliable proactive maintenance program.</p> <p>Stan Shantz (Mier Consulting)</p>
Technical	Avantis	Wednesday, 9:00-11:00	<p><u>Optimizing Crystal Reports</u> Crystal Reports is a powerful extension to Avantis. This session presents a creative technique of implementing object hyper-linking with custom reports. This allows users to produce reports that emulate cabinet like functionality in that Avantis.PRO objects can be accessed directly from the report. This provides powerful navigation capability that can increase user productivity. The session will also demonstrate accessing attachment documents directly from a custom report. In addition, learn about implementing report auditing in custom reports.</p> <p>Brian Cabaday (Crystal Methods, Inc.)</p>
Technical	Avantis	Wednesday, 9:00-9:50	<p><u>Case Study & Product Demonstration - Condition Based Maintenance at Vectren Corporation LLC</u> Case Study and Product Demonstration: Invenys Condition Manager - An intelligent real-time condition management solution that collects and analyzes real-time diagnostics from all plant production assets and drives the appropriate actions to help improve overall asset performance management.</p> <p>Bret Gold (Vectren Corp, LLC) Mike Scholman (IOM)</p>
Technical	Avantis	Wednesday, 10:10-11:00	<p><u>Integrating Maintenance Best Practices for Work Management, Planning and Scheduling in Avantis.PRO</u></p> <p>Jim H. Davis, CMRP (PCA)</p>



Track	Brand	Time	Description
Technical	Avantis	Wednesday, 11:10-12:00	<p><u>Case Study: Managing Fleet and Facilities with Avantis (University of Western Ontario)</u> Learn how this 420 acre university founded in 1878 manages facilities and fleets to support 33,000 students using Avantis.</p> <p>Michelle Knox (University of Western Ontario)</p>
Special Interest		Wednesday, 1:00-1:50 3:10-4:00	<p><u>Using Wireless Technology to Improve Plant Performance</u> Things are moving very quickly in the industrial wireless world today. Where only two years ago industrial process enterprises were strictly forbidding any wireless technologies, today most enterprises are either experimenting with or implementing wireless solutions. Small-scale implementations offer easy entrance into these new technologies and still have a compelling ROI.</p> <p>This presentation will describe what is driving the market, helping to understand the technology and exploring the constraints and enablers of industrial wireless solutions. We will discuss utilizing wireless technology at all levels of the enterprise via a range of highly valuable solutions. After that, we will discuss why operator mobility solutions are today's most sought-after applications. We will conclude by providing a brief update on the developing standards in wireless sensors and reviewing a number of real-world implementations, taking a look at their success as well as some common bumps in the road.</p> <p>Hesh Kagan (IOM) Motorola Representative</p>
Special Interest		Wednesday, 1:00-2:50 3:10-5:00	<p><u>Cyber Security</u> The traditional view of Cyber Security involves firewalls, routers, intrusion detection and antivirus. While many plants have reduced some of their risks by implementing these technologies, other challenges remain. The continuing trend of devices and systems in the control world becoming more inter-connected requires us to consider the use of platforms to manage, monitor, maintain and provide visibility to these systems. Whether done internally or outsourced to a managed security services vendor, knowing what is on your network, its current state of risk and periodically re-assessing its contents is a crucial part of a security lifecycle.</p> <p>In this presentation, we will discuss the challenges of monitoring and managing individual control stations, switches, firewalls, and other devices that comprise a typical control system. We will examine the various levels within a system and how each can be monitored for availability, vulnerability, patch status, and other security and health factors. Attendees will walk away with an understanding of how they can get a better grasp of their system's current security and operational health levels.</p> <p>Doug Clifton (IOM)</p>



Track	Brand	Time	Description
Special Interest		Wednesday, 1:00-1:50 3:10-4:00	<p><u>Enterprise Connectivity</u> Industrial manufacturing requires systems and technology that must support plant automation, operations, maintenance, engineering and accounting. These systems come from many different vendors and yet must work together as one system in order to support the business of successfully manufacturing products. This session will discuss manufacturing integration through systems interoperability and industry standards, and Wonderware's Enterprise Integrator as a key enabler of plant to enterprise connectivity.</p> <p>Maryanne Steidinger (Wonderware)</p>
Special Interest	All	Wednesday, 2:00-2:50	<p><u>Excellence in Project Execution</u> All industries are seeking ways to reduce project lifecycle costs and project durations, while reducing associated risks and maintaining or improving the quality of the delivered systems. Our experts will take you through the new package of internal tools and processes that the InvenSys global delivery team has developed that can meet these expectations. You will see demos and real examples of how this approach can:</p> <ul style="list-style-type: none"> • Give you more time to firm up requirements and define project data • Automatically validate your design before configuration • Test your system throughout the lifecycle • Use medium fidelity simulation for earlier operator training <p>These tools and techniques are available today and they can work on your next project.</p> <p>Irvine Wilson (IOM)</p>
Technical	Avantis	Wednesday, 1:00-1:50	<p><u>Avantis.PRO Functional User Group Meeting:</u> PIC (Materials User Group) & SIGMA (Maintenance User Group) will meet "Live from Houston". Both user groups will conduct their September monthly meeting jointly from Houston. Group members not attending the conference will be invited to participate via Live Meeting and teleconference. Agenda to be published one week prior.</p> <p>Maggie Mesonero (IOM)</p>
Technical	Avantis	Wednesday, 1:00-1:50	<p><u>Avantis.PRO Technical User Group Meeting:</u> STEAM will meet "Live from Houston" Group members not attending the conference will be invited to participate via Live Meeting and teleconference. Agenda to be published one week prior.</p> <p>Dave Wiedenfeld (STEAM Chair)</p>
	Avantis	Wednesday, 2:00-2:50	<p><u>Leveraging Asset Information</u> Utilizing historical information to drive reliability and profit ability.</p> <p>Stan Shantz (Meir Consulting)</p>
Training	Avantis	Wednesday, 3:10-5:00	<p><u>Avantis Release 4.2 Training</u> Morag Walsh & Maggie Mesonero (IOM)</p>



Track	Brand	Time	Description
Training	Avantis	Wednesday, 2:00-5:00	<p><u>Technical Track</u> This session will include numerous mini training, technical tips and techniques topics. If your responsibilities include providing system administration for Avantis and its infrastructure – t his is the place to be!</p> <p>Topics include: Avantis system administration, error handling, the middle tier, MTP, database, cabinets, upgrading and more. This session will flow into the technical training track on Thursday.</p> <p>STEAM Members with Avantis IOM Technical Support, Development & Consulting</p>
Special Interest		Wednesday, 1:00-2:50 3:10-5:00	<p><u>Energy Management</u> Energy costs are predicted to increase, likely dramatically, while pressure to minimize environmental impacts is also growing. There are many strategies and approaches you can use to understand where your operation is exposed, learn what you can do to control rising energy costs, and be more environmentally conscious. This session will provide client stories of tangible steps and areas of improvement that you should consider to make a positive impact in the short term – and in the future.</p> <p>Bran Courchesne (IOM)</p>
Special Interest		Wednesday, 1:00-2:50 Wednesday,3:10-5:00	<p><u>Improving Equipment Reliability and Operational Consistency through a Mobile Approach</u> See how the application of mobile technology can help mobile workers detect the precursors to equipment failure - preventing lost production. Learn how to codify best operating practices and then use mobile technology to ensure consistent application of these field procedures. See how mobile platforms can improve connectivity affording field workers with greater visibility into real-time plant operations.</p> <p>Presenter: Jim Frider, Marketing Manager, Wonderware</p>
Special Interest		Tuesday & Wednesday Hourly (10 pers. max)	<p><u>Operator Immersion</u> This presentation discusses the range and associated value of multimedia aids that are economically and technically accessible today to support process design, training, and maintenance and safety management in the process industries by linking the power of dynamic simulation to VR applications and tools.</p> <p>Dr. Tobias Scheele (IOM)</p>



Track	Brand	Time	Description
Special Interest		Wednesday, 9:00-9:50 10:10 – 11:00 1:00-2:50 3:10-5:00	<p><u>Invensys Operations Management Strategic Roadmap for Mutual Success</u> Invensys has started the integration of its industrial automation & information businesses - IOM, Wonderware and Eurotherm – and has created a new business division called Invensys Operations Management. The creation of this division has been driven by the convergence in technologies and work processes that enable our customers to optimize their operations – thereby creating the opportunity for Invensys to create a continuum of solutions and services that covers the entire real-time industrial market space.</p> <p>We know our customer are at the heart of our future success and must have the confidence in our skills, our abilities and our technology. This session will help our customers understand what Invensys Operations Management means to them, where we are investing in technology, solutions and resources that will be enabling our mutual success. This session will provide an excellent opportunity for you to ask live questions about our strategies – from investment priorities through our organizational structure. The session will be conducted in a panel format starting with a strategic roadmap presentation and ending with a panel Q&A.</p> <p>Rashesh Mody & Mark Davidson (IOM)</p>
Special Interest		Wednesday, 1:00-2:50	<p><u>Preparing For A Hurricane, Lessons Learned</u> Hear more about how ExxonMobil successfully recovered from the devastation of Hurricane Ike through preparations, teamwork, and agility. Out of this event several key lessons were learned that every plant along the coastline can benefit.</p>



2009 IOM NACC Training Descriptions

Track	Time	Description
Training	Thursday, 9:00-12:00	<p><u>Avantis.PRO Materials Training</u> Materials topics for this full day session will include:</p> <ul style="list-style-type: none"> • Storeroom transfers • Item usage analyzer • Evaluated Receipts Settlement (ERS) • Repairable spares, Serialized inventory • Requests for quotation (with focus on updates to vendor resources, • Contracts and requisitions and to create POs) • Performance report cards • Vendor resource mass update • Consignment and an Open Forum – general discussion on any material management functions <p>Maggie Mesonero (IOM)</p>
Training	Thursday, 9:00-12:00	<p><u>Avantis.PRO Maintenance Training</u> Review the features offered to set up equipment information, track maintenance history to improve information available when work is required, streamline the work cycle, & facilitate performance analysis. Topics include:</p> <ul style="list-style-type: none"> • Set up of entities, • Component replacement/swapping, • Setup to facilitate reliability information, • Collecting reliability information, Using warranties • Tracking serialized parts used on equipment • Automating the fulfillment of parts requirements <p>Morag Walsh (IOM)</p>
Training	Thursday, 9:00-12:00	<p><u>Avantis.PRO Technical Training</u> This "technical session" is geared towards the IT professional responsible for the various aspects of maintaining, upgrading and enhancing the performance of Avantis.PRO installation. This session will include presenters from Avantis Client Support and Development, and STEAM Members (technical client user group).</p> <p>STEAM Members with Avantis IOM Technical Support, Development & Consulting</p>



Track	Time	Description
Training	Thursday, 1:00-3:00	<p><u>Avantis.PRO Materials (Continued) Training</u> Materials topics for this full day session will include:</p> <ul style="list-style-type: none"> • Storeroom transfers • Item usage analyzer • Evaluated Receipts Settlement (ERS) • Repairable spares, Serialized inventory • Requests for quotation (with focus on updates to vendor resources, • Contracts and requisitions and to create POs) • Performance report cards • Vendor resource mass update • Consignment and an Open Forum – general discussion on any material management functions <p>Maggie Mesonero (IOM)</p>
Training	Thursday, 1:00-3:00	<p><u>Avantis.PRO Maintenance (Continued) Training</u> Review the features offered to set up equipment information, track maintenance history to improve information available when work is required, streamline the work cycle, & facilitate performance analysis. Topics include:</p> <ul style="list-style-type: none"> • Set up of entities, • Component replacement/swapping, • Setup to facilitate reliability information, • Collecting reliability information, Using warranties • Tracking serialized parts used on equipment • Automating the fulfillment of parts requirements <p>Morag Walsh (IOM)</p>
Training	Thursday, 1:00-3:00	<p><u>Avantis.PRO Technical (Continued) Training</u> This "technical session" is geared towards the IT professional responsible for the various aspects of maintaining, upgrading and enhancing the performance of Avantis.PRO installation. This session will include presenters from Avantis Client Support and Development, and STEAM Members (technical client user group).</p> <p>STEAM Members with Avantis IOM Technical Support, Development & Consulting</p>



Track	Time	Description
Training	Thursday, 8:00-12:00	<p><u>FSIM Plus and the InFusion Configurator</u> FSIM Plus is a simulated I/A Series Control Processor combined with the Dynsim process modeling utilities. All operational and engineering applications, processes, and equipment that run with I/A Series control systems can be run in exactly the same way with FSIM Plus. FSIM Plus supports I/A Series block algorithms, including those that execute in I/A Series CPs, Device Integrators, and PLC Integrators. For this session, we will provide an overview of the FSIM Plus architecture, load controls using the ICC and create a simple tieback simulation. The workshop will wrap up with an InFusion™ Sim demonstration.</p> <p>The ½ day workshop will cover:</p> <ul style="list-style-type: none"> • An overview of FSIM Plus architecture • Installation Requirements • Graphical User Interface Overview • Building a Simple Flowsheet • Communication Between the Process Model and the DCS • InFusionSim Demonstration <p>Pre-Requisites: Should have a good degree of familiarity with the Foxboro I/A series system</p> <p>Janet Parker</p>
Training	Thursday, 8:00-10:00	<p><u>Mesh switch configuration and Set-up</u> This 2 hour workshop will describe best practices and security when installing and using and maintaining the Foxboro I/A Series MESH network. Topics to be covered during this workshop include:</p> <ul style="list-style-type: none"> • Best practices for deployment of the MESH Network, utilizing the Switch Configurator Software Application (SCAS) 3.0.1. • MESH Network switch security deployable with (SCAS) 3.0.1. • NetSight Console and its use with the MESH Network. • Performance Monitoring and Measurement. • Network Alarm monitoring via Syslog servers. • NetSight Policy and its use with the Security Enhanced MESH Network <p>Bob Schwarz</p>



Track	Time	Description
Training	Thursday, 10:00-12:00	<p><u>Advanced Alarming Concepts And Methods</u> This presentation will introduce the participants to advanced alarming (also known as intelligent or smart alarming) concepts and methods of application. This will include the identification of advanced alarming opportunities, using actual customer data, and defining appropriate methods to apply given different alarm scenarios.</p> <p>The application of Advanced Alarming allows customers who have undergone an alarm rationalization effort to work towards ensuring that only valid alarms are annunciated to the operator under all conditions and states.</p> <p>It is recommended that participants be familiar with basic alarm management concepts</p> <p>Michael J. Martinez</p>
Training	Thursday, 1:00-3:00	<p><u>Network Security enhancements in a version 8.5 system</u> I/A Series system version 8.5 introduces some new control and system assessment tools including a new I/A System Assessment Tool that can be used to track changes in the I/A series system.</p> <p>I/A 8.5 series system software brings new security enhancements and an unprecedented level of security. These security enhancements will be discussed in this 2 hour workshop. Topics include. How to use a Domain Administration in I/A. Active Directory and the use of profiles. How to assign I/A users to profiles. The default profiles available to each users, and how to modify individual profiles.</p> <p>Bob Schwarz</p>
Training	Thursday, 10:00-12:00; 1:00-3:00	<p><u>Understand your amine process with Pro/II & AMSIM</u> This four hour hands-on session covers Schlumberger's AMSIM which is fully integrated into PRO/II allowing accurate simulation for the removal of H₂S, CO₂ and mercaptans from refinery gas and liquefied petroleum gas (LPG) streams using single or blended amines and physical solvents. You will learn how to use the rigorous non-equilibrium stage model to treat refinery gas stream to meet required specifications. You will learn how to analyze the sensitivity of key operating parameters in amine sweetening units.</p> <p>Abhay Sawant (IOM)</p>
Training	Thursday, 8:00-10:00	<p><u>Getting the Most from Your PRO/II Simulations</u> This two hour seminar will cover some of Pro/II's most useful techniques to simplify and organize your process simulation results. The topics include output formatting, on-screen customization, report customization, and how to setup and run your simulation from Excel.</p> <p>Mike Donahue (IOM)</p>



Track	Time	Description
Training	Thursday, 1:00 – 3:00	<p><u>Why you need to investigate dynamic simulation</u> This two hour seminar will provide an overview of the benefits that can be gained from using dynamic simulation for the Refining, Upstream, Chemical and Power industries. The uses discussed range from control configuration optimization to plant material selection to flare load analysis. The session will also include a brief look of how a Dynsim simulation is configured and executed.</p> <p>Bryan McAlister (IOM)</p>
Training	Thursday, 10:00 –12:00	<p><u>Avoiding the 10 most common pitfalls in process simulation</u> This two hour seminar presents the ten most encountered errors in process simulation design. Topics include thermodynamics, flow sheet tolerance; recycle setup, flow sheet control, petroleum assay development and convergence. Several examples will be presented.</p> <p>Mike Donahue (IOM)</p>
Training	Thursday, 3:00 – 5:00	<p><u>Dynamic Evaluation of Flare Systems</u> This two hour seminar will provide on overview of the benefits that can be gained from modeling flare systems dynamically and the reduction of column relief loads that can be realized. Dynamic simulation of flare loads is an approved API 521 method and can be accurately simulated by Dynsim. The reduction in flare loads stem from data that can not be captured through the conservative methods of steady state simulation.</p> <p>Bryan McAlister (IOM)</p>
Training	Thursday, 10:00 – 12:00	<p><u>Converge Toughest Models using Pipe phase</u> This two hour seminar contains an overview of the convergence techniques employed by PIPEPHASE to converge the most complex networks. Several examples will be given along with an overview to avoid common hydraulic simulation pitfalls. Topics covered include the calculation segment, solution algorithms, damping and initial estimate generation methods.</p> <p>Greg Katnich (IOM)</p>
Training	Thursday, 3:00 – 5:00	<p><u>Rate based distillation using RATEFRAC in Pro/II</u> This two hour hands-on session contains an overview of the principles, advantages, and techniques used in RATEFRAC to simulate equilibrium limited multistage vapor-liquid columns. Examples on absorption, stripping, and conventional azeotropic and extractive distillation will be developed. The RATEFRAC software module is a product of Koch-Glitsch and licensed exclusively within PRO/II. It's a rigorous rate-based distillation model for applications where equilibrium initiatives are limited by heat and mass transfer rates.</p> <p>Mike Donahue (IOM)</p>



Track	Time	Description
Training	Thursday, 1:00-5:00	<p><u>Material Balance Module in ROMEO/ARPM</u> The Material Balance Module (MBM) is specifically designed for bulk material balance, so it does not require compositions or thermodynamics as in ROMEO/ARPM. This four hour seminar will concentrate on the main differences between the MBM and ROMEO/ARPM, showing how an entire refinery can be modeled with the MBM. Also covered will be the benefits of MBM to process engineers, yield accountants and management. Two simulations will be created and solved to demonstrate the ease of building & solving MBM models.</p> <p>Ted McKeegan (IOM)</p>
Training	Thursday, 8:00-10:00	<p><u>PRO/II Built-In Third Party Interfaces – HTRI/AMSIM/OLI</u> This two hour seminar covers several third-party programs integrated into PRO/II. These third-parties are recognized leaders in their field, so integrating them simultaneously extends the power of our process simulator and the third party's software. The Heat Transfer Research Institute (HTRI) is dedicated to modeling heat exchangers, and their shell-and-tube algorithm is integrated into PRO/II by the click of a mouse. Amsim is the product of Schlumberger's D. B. Robinson (DBR) Product Center, and models amine systems, including blends, using a rigorous thermodynamic approach rather than an empirical approach. The Amsim GUI is launched from within PRO/II, and streams may be connected to PRO/II unit operations. OLI is the leader in electrolyte thermodynamics. Selecting default OLI thermodynamics is as easy as a mouse click. Creating a custom component set will also be demonstrated.</p> <p>Ted McKeegan (IOM)</p>
Training	Thursday, 8:00-10:00	<p><u>Corrosion monitoring in column overheads using PRO/II Electrolytes/MSE</u> This two hour hands-on session covers the Electrolyte-MSE Module which extends the rigorous, steady-state design and operational analysis capabilities of PRO/II to electrolyte modeling. This module forms a seamless integration of PRO/II with rigorous electrolyte thermodynamic algorithms developed by <u>OLI Systems, Inc (OLI)</u>. Corrosion is one of the main concerns in distillation column overhead system in a refinery. You will learn how to use PRO/II's Aqueous Electrolytes – MSE ionic modeling capabilities for predicting dew point temperature and pH of first drop of liquid and the bulk water phase in the condenser. You will learn how to create custom electrolyte models using the OLI's Chemistry Wizard.</p> <p>Abhay Sawant (IOM)</p>



Track	Time	Description
Training	Thursday, 10:00 -12:00	<p><u>TriStation 1131 Programming with Wonderware</u> This two hour workshop will demonstrate the capabilities of the TriStation 1131 Developer's Workbench and Wonderware. Using a new training simulator, which includes Tricon, Wonderware, networking capabilities, and a PC to demonstrate live data, the workshop will cover the following topics:</p> <ul style="list-style-type: none"> • Tristation 1131 programmable languages referenced IEC1131 • Tristation 1131 design • Hardware Allocation • Configure Variables (Tagnames, Local variables, Constants, Aliased tags) • Description of the differences between Download All and Download Change features while communicating with live hardware • Overview of Security • Wonderware Intouch HMI interface <p>Jim Simmons</p>
Training	Thursday, 1:00 – 3:00	<p><u>Troubleshooting Using the Triconex Enhanced Diagnostic Monitor</u> This two hour workshop will demonstrate the latest version of the of the TriStation 1131 Enhanced Diagnostic Monitor. The workshop will cover the following topics:</p> <ul style="list-style-type: none"> • Overview of Tricon Hardware • Description LED indications on each hardware module • Diagnostic Monitor Application • Display Enhanced Diagnostics Monitor 2.0 • Identifying a hardware fault or field fault • Repair problem without effecting processes <p>Jim Simmons</p>
Training	Thursday, 1:00 -3:00	<p><u>Integrated Turbine & Compressor Control Workshop</u> Integrated Turbine and Compressor Controls Workshop This 2 hour workshop covers the key aspects of turbine and compressor controls. Among the topics presented are Surge Control, System Design, Process Control. There will be a demonstration of a turbo-machinery process simulation with an integrated Triconex software solution and HMI using Dynsim dynamic simulation software. IOM strongly believes in the integrated turbomachinery controls approach, and was one of the first companies to offer integrated turbine-compressor controls and turbine-generator controls. With the integrated approach, we combine the functions of machinery protection, turbine start up sequencing, turbine load/speed control, driven load control (compressor surge control or generator excitation control), auxiliary control (lube oil pumps), steam system management, and electrical system management into a single integrated control system.</p> <p>Jim Jacoby</p>



Track	Time	Description
Training	Thursday, 1:00 – 5:00	<p><u>TRSIM Plus and InTouch HMI</u></p> <p>TRSIM Plus fully integrates with Triconex's TriStation 1131 Developer's Workbench Version 4 to provide the ideal simulation platform meaning that all operational and engineering applications, processes, and equipment that run with Triconex control systems can be run in exactly the same way with TRSIM Plus. TRSIM Plus supports Triconex Tricon or Trident block algorithms built within Tristations. For this session, we will provide an overview of the TRSIM Plus architecture, download PT2 files and create a simple tieback simulation. The workshop will wrap up with a demonstration of a simulation version of a Wonderware HMI controlled through a TRICON emulation.</p> <p>This ½ day workshop will cover:</p> <ul style="list-style-type: none"> • An overview of TRSIM Plus architecture • Installation Requirements • Graphical User Interface Overview • Building a Simple Flowsheet • Communication Between the Process Model and the TRICON/TRIDENT emulator • Simulation version of Wonderware HMI with a TRICON Emulation Demonstration <p>Prerequisites: Should have a good degree of familiarity with Triconex control and safety systems</p> <p>The course will be hands-on; computers and course materials will be provided.</p> <p>Janet Parker</p>