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aeSolutions provides low-cost, simple-to-implement, and efficient process safety engineering and automation solutions to the oil & gas, petrochemical, refining, chemical, and specialty chemical markets. Our staff is passionate about process safety and are experts in ISA 84/IEC 61511 compliance and the process safety lifecycle.

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Contact Ged Farnaby, Director of Business Development
ged.farnaby@aesolns.com  281.967.2511
Maurice Wilkins is the vice president of Yokogawa’s Strategic Marketing Center, based in Dallas, Texas. His keynote presentation will examine recent workforce trends, the differences between the Boomer and Millennial generations and their expectations; and how standards and technology can help Millennials gain the experience needed to close the so-called “skills gap.”

Dr. Wilkins possesses more than 37 years of experience in human factors, batch solutions, procedural operations, HMI design, advanced process control and benchmarking analysis in the chemical and refining industries. He is a Chartered Engineer in the UK, a Fellow of the UK IChemE, and represents them in the US as a Senior Ambassador. He is also an ISA Fellow and a Fellow of the Institute of Measurement and Control. Dr. Wilkins was inducted into the Process Automation Hall of Fame in 2011.

Lloyd Colegrove is the director of Data Services and Fundamental Problem Solving at the Analytical Technology Center within The Dow Chemical Company. His keynote presentation will highlight how Dow Chemical is leveraging Big Data to transform chemical manufacturing data to information, then knowledge, then wisdom.

Over the past 15 years, Dr. Colegrove has been driving the implementation of novel applications of multi-variate analysis into real-time batch and continuous process data analysis. His desire for novel approaches to data interpretation and integration in manufacturing assets has coalesced into an effort within Dow manufacturing to re-think how data is viewed and used.

Recently, he has focused his energy and his teams on developing and piloting an enterprise data analysis and collaboration space that would tie multiple plants together with Dow’s Technology Center and R&D resources to troubleshoot in real time and preemptively detect and alert plant trouble well before a crisis emerges.

Dr. Colegrove’s background is in chemical physics. He spent seven years in polymer research at Dow before moving into the company’s manufacturing area. He served in analytical improvement and quality leader roles for five Dow businesses before moving into the then newly formed Analytical Technology Center in 2009.

Paul Gruhn is a Global Process Safety Consultant at Rockwell Automation, a position he has held since June 2005. Gruhn is a highly acclaimed and awarded safety expert in the automation and control field. He is an ISA Fellow, a member of the ISA84 standard committee (on safety instrumented systems), a member of the ISA101 standard committee (on human machine interfaces), and a developer and author of ISA courses on safety systems.

An accomplished author, he has written two ISA textbooks (Safety Instrumented Systems: Design, Analysis & Justification and Sell More through Effective Technical Presentations), other book chapters and more than two dozen published articles.

Gruhn developed the first commercial safety system modeling company. He is a Licensed Professional Engineer (PE) in Texas, a member of Control System Engineer (CSE) exam team and an ISA84 expert. He received a bachelor of science degree in mechanical engineering from Illinois Institute of Technology.

Rick Roop brings a distinguished track record as a financial management executive, an instrument and electrical engineer, and a power plant manager as well as three decades of ISA membership and involvement to his role as Society president.

Roop serves as Vice President, Senior Portfolio Manager and owner of Donaldson Capital Management, an Evansville, Indiana-based investment advisory firm. He has been actively involved in the Society since joining ISA in 1983. In 1984, he established the ISA Evansville Section, serving as its president as well as show chair, and section delegate and secretary. In 1986, he started the ISA Terre Haute (Wabash Valley) Section, serving as its president as well as show chair, and section delegate and secretary. From 2009 to 2013, he served as President and Chief Operating Officer of Donaldson Capital Management, an Evansville, Indiana-based investment advisory firm. He has been actively involved in the Society since joining ISA in 1983. In 1984, he established the ISA Evansville Section, serving as its president as well as show chair, and section delegate and secretary. In 1986, he started the ISA Terre Haute (Wabash Valley) Section, serving as its president as well as show chair, and section delegate and secretary. From 2009 to 2013, he served as President and Chief Operating Officer of Donaldson Capital Management, an Evansville, Indiana-based investment advisory firm.
### Conference Sessions | Schedule-at-a-glance | Tuesday, 10 November

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<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Safety</th>
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<th>MESA: New Developments in Metrics</th>
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<tbody>
<tr>
<td>7:30 a.m.–8:00 a.m.</td>
<td>Speakers Breakfast—Briar Park 3</td>
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<tr>
<td>8:00 a.m.–9:00 a.m.</td>
<td>Keynote Presentation • Maurice Wilkins—Grand Ballroom Salons F-H</td>
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<tr>
<td>9:00 a.m.–9:30 a.m.</td>
<td>ISA 106: What It Is and What It Isn’t—Status Update and Future Activities</td>
<td>Panel Discussion</td>
<td>Testing of Safety Instrumented Systems—The Good, The Bad, and the Ugly</td>
<td>Introduction to the Security Track</td>
<td>Case Study of IoT Part I—IoT Overview in Electrical Utility and Industrial Automation Part II—IoT Case Study in Large Metropolitan Electrical Utility</td>
<td>The Value of Big Data and the Industry 4.0 Revolution</td>
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<tr>
<td>9:30 a.m.–10:00 a.m.</td>
<td>Procedural Automation in Continuous Processes—A Dow Chemical Success Story</td>
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<td>Unconference Session</td>
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<td>10:00 a.m.–10:30 a.m.</td>
<td>Using Procedural Automation to Standardize and Improve Operations in Continuous Processes</td>
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<td>10:30 a.m.</td>
<td>Break • Exhibits—Grand Pavilion</td>
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<tr>
<td>10:45 a.m.–11:30 a.m.</td>
<td>ISA101: What It Is and What It Isn’t—Status Update and Future Activities</td>
<td>Workshop Cost Justification for Safety Instrumented System Compliance</td>
<td>Adapting NIST Cybersecurity Framework for Conformance Assessment</td>
<td>IEEE-P2413 IoT Architecture Framework Standardization</td>
<td>Process Automation and IoT for Connected Industrial Enterprise</td>
<td>What is Smart Manufacturing?</td>
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<td>11:30 a.m.–11:45 a.m.</td>
<td>ISA101: From Philosophy to Operation</td>
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<tr>
<td>11:45 a.m.–12:00 p.m.</td>
<td>Old School to New School: Blending Established Tactics, Modern Technology, and ISA-Compliant HMI Screens at a Major Natural Gas Utility</td>
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<td>12:00 p.m.–12:30 p.m.</td>
<td>Performing an IACS Cyber Risk Assessment per ISA 62443 11:45 p.m.–12:30 p.m.</td>
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<td>12:30 p.m.–1:30 p.m.</td>
<td>Lunch • Exhibits—Grand Pavilion</td>
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<tr>
<td>1:30 p.m.–2:00 p.m.</td>
<td>Panel Discussion</td>
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<td>2:00 p.m.–2:30 p.m.</td>
<td>The Past, Present, and Future of Alarm Management</td>
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<td>2:30 p.m.–3:00 p.m.</td>
<td>Safety Lifecycle Management: Evolution of HIPS at Saudi Aramco</td>
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<td>3:00 p.m.</td>
<td>Break • Exhibits—Grand Pavilion</td>
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Wednesday, 11 November

7:30 a.m.–8:00 a.m.  Speakers Breakfast—Briar Park 3
8:00 a.m.–9:00 a.m.  Keynote Presentation • Lloyd Colegrove—Grand Ballroom Salons F-H

Sessions

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<th>Time</th>
<th>Instrumentation</th>
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<th>ChemPID</th>
<th>MESA: Metrics that Matter</th>
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</thead>
<tbody>
<tr>
<td>9:00 a.m.–9:30 a.m.</td>
<td>Gas Void Fraction Eliminator—How Much Money are You Paying for Air?</td>
<td>Workshop Performance-Based Gas Detection System Design Using Computational Fluid Dynamics (CFD) Modeling of Gas Dispersion</td>
<td>Hardening Industrial Control Systems (ICS) to Avoid a Cyber Attack</td>
<td>Reality Check: Pitfalls in Alarm Management at a Greenfield Site</td>
<td>Metrics that Matter Survey Results</td>
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<tr>
<td>10:00 a.m.–10:30 a.m.</td>
<td>Modifying Protection Method from Non-Incendive to Intrinsically Safe Installation</td>
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<td>Alarm Management with High Performance HMI: The Compounding Benefits of a Unified Solution</td>
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<tr>
<td>10:30 a.m.</td>
<td>Break • Exhibits—Grand Pavilion</td>
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Sessions

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<tbody>
<tr>
<td>11:00 a.m.–11:30 a.m.</td>
<td>New Technology for Toxic and Flammable Gas Detection</td>
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<td>Development of Wireless in Safety</td>
<td>How to Make Money with Your Operator Graphics</td>
<td>The Case for Change: Bridging the Gap from R&amp;D to Manufacturing</td>
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<tr>
<td>11:30 a.m.–12:00 p.m.</td>
<td>Tutorial Safety Instrumented System Nuts and Bolts</td>
<td></td>
<td>Cybersecurity ICS—Monitoring, Policies, and Procedures</td>
<td>Human Machine Interface (HMI) Design—The Good, the Bad, and the Ugly</td>
<td>Automating Recipe Transformation from R&amp;D to the Plant Floor</td>
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<tr>
<td>12:00 p.m.–12:30 p.m.</td>
<td>Toxic gas detectors for Shelter In Place (SIP)</td>
<td>Looking for Trouble on OT Networks: Tools and Techniques to Identify Threats to ICS Communications</td>
<td>Safety and Alarming Applications Based on ISA100 Wireless System</td>
<td>Applying ISA101 HMI Concepts to Existing HMI Applications</td>
<td>Use Case for Enterprise Recipe Management Solutions</td>
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<tr>
<td>12:30 p.m.–1:30 p.m.</td>
<td>Lunch • Exhibits—Grand Pavilion</td>
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<td>Wireless Applications in a Tank Farm</td>
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<tr>
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<td>Safety</td>
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<td>Pulp and Paper</td>
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<td>1:30 p.m.–2:00 p.m.</td>
<td>How to Update Your Plant’s Calibration Program</td>
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<td>Safe Integration: Secure Industrial to Business Network Architectures for the Networked Enterprise</td>
<td>Ethernet Backbone Improves Design, Implementation, and Lifecycle Management of Safety Systems</td>
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<td>Operational Intelligence, Risk Management, and the Data to Decision Gap</td>
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<tr>
<td>2:00 p.m.–2:30 p.m.</td>
<td>Field Calibration and Testing of Industrial Vibration Protection Systems</td>
<td>Tutorial Safety Instrumented Burner Management Systems—Codes and Standards Update</td>
<td>An Owner and Operator’s Journey towards Safety and Performance with All Digital Wireless Control (ADWC)</td>
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<td>A KPI Standard to Improve Process Performance</td>
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<tr>
<td>2:30 p.m.–3:00 p.m.</td>
<td>Reliability in Measurements: Common Misconceptions in Calibration Management</td>
<td>ICS/SCADA Security—Building it IN</td>
<td>Best Practices to Improve the Safety and Productivity of Plant Operations</td>
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<td>KPIML—Defining and Exchanging Key Performance Indicators</td>
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<tr>
<td>3:00 p.m.</td>
<td>Break • Exhibits—Grand Pavilion</td>
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<td>Sessions</td>
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<td>Security</td>
<td>Communication</td>
<td>Pulp and Paper</td>
<td>MESA: Time-in-State Metric</td>
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<tr>
<td>4:00 p.m.–4:30 p.m.</td>
<td>Proof-Testing Level Gauges Remotely from the Operator Room TBD: A Realistic Dream or Not?</td>
<td>Workshop Safety Lifecycle Compliance Journey: If I’d Have Known Then What I Know Now…</td>
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<td>4:30 p.m.–5:00 p.m.</td>
<td>The Importance of and Complexities Associated with Selecting the Right Thermowell Material</td>
<td>Panel Discussion Best Practices in Securing ICS Systems</td>
<td>Effects of Wireless Packet Loss in Industrial Process Control Systems</td>
<td>Addressing Cycling Problems in Pulp and Paper Processes</td>
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<td>Case Study Applying Time-in-State</td>
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<tr>
<td>5:00 p.m.</td>
<td>Maverick Cocktail Reception • Exhibits—Grand Pavilion</td>
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Thursday, 12 November

7:30 a.m.–8:00 a.m. | Speakers Breakfast—Briar Park 3 |
8:00 a.m.–9:00 a.m. | Keynote Presentation • Paul Gruhn—Grand Ballroom Salons F-H |
<p>| Sessions | Instrumentation and Control | Safety | Security | Educational | ChemPID | MESA |
| 9:00 a.m.–9:30 a.m. | Novel Design of Ubiquitous Data-Centric Automation and Control Architecture | Functional Safety in Integrated Machinery Protection System (IMP) | ICS Cybersecurity Process Lifecycle | How to use ISA—Engineers/Technicians Use of the Resources | Report from the Trenches—Current Alarm Management Practices | |
| 9:30 a.m.–10:00 a.m. | | Independence and Separation of Automated Systems | | Distance Automation Engineering Labs | Alarm Lifecycle Support to Get Alarm Floods Under Control | unConference Session The Future of Manufacturing |
| 10:00 a.m.–10:30 a.m. | Implementation of New “Characterized” I/O Modules for an Operating Facility Upgrade | FMEDA Predictions and OREDA Estimations for Mechanical Failure Rates: Explaining the Differences | Making a Business Case for IACS Cybersecurity 9:45 a.m.–10:30 a.m. | Deterministic Process Analysis | Measuring and Eliminating Stale Alarms | |
| 10:30 a.m. | Break • Exhibits—Grand Pavilion |</p>
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<thead>
<tr>
<th>Time</th>
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<th>Security</th>
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<tr>
<td>11:00 a.m.–11:30 a.m.</td>
<td>DCS Migration: Lessons Learned</td>
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<td>An Exciting Cybersecurity Program Approach</td>
<td>Asset Performance Management 2.0—Revisiting the Mission of APM</td>
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<td>11:30 a.m.–12:00 p.m.</td>
<td>Artificial Intelligence in Process Control</td>
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<td>Session Education Division</td>
<td>Best Practice in SIS HMI</td>
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<td>Case Studies Leveraging Real Time Intelligence &amp; Mobility for Driving Asset Performance</td>
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<td>12:00 p.m.–12:30 p.m.</td>
<td>It Takes a Village: Maintaining APC Effectiveness</td>
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<td>Human Machine Interfaces In Harsh Environments: Why, Where, and How</td>
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<td>1:30 p.m.–2:00 p.m.</td>
<td>Upgrade Considerations for Control System</td>
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<td>Cybersecurity for Manufacturing Systems</td>
<td>How to Beat your Startup Date</td>
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<td>Detection of Gas Leaks in Air—Cooled Heat Exchangers</td>
<td>Manufacturing Enterprise Solutions for Process Industries</td>
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<td>2:00 p.m.–2:30 p.m.</td>
<td>Change your Board Operator to a Process Manager with State-Based Control</td>
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<td>Adoption of Wireless for Safety</td>
<td>Automation Infrastructure Upgrades at an Oil Storage Terminal</td>
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<td>Prevent the Next Catastrophe: How to Develop Prescriptive Action from Big Data for Plant Asset Management</td>
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<td>2:30 p.m.–3:00 p.m.</td>
<td>Do your Progress Meetings Hinder Progress?</td>
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<td>Detection of Natural Gas Leaks by Open Path and Ultrasonic Gas—Leak Detection in Onshore Gas Wells and Unmanned Platforms</td>
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<td>3:00 p.m.</td>
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<td>3:30 p.m.–4:00 p.m.</td>
<td>Fukashima and Three Mile Island—Lessons Learned, A Nuclear Industry Perspective</td>
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<td>Real-time Data and Process Simulator Integration</td>
<td>Building the Automation Professional of Tomorrow</td>
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<td>4:00 p.m.–4:30 p.m.</td>
<td>Panel Asset Management</td>
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<td>Safety Alarm Management Challenges and Best Practices</td>
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<td>4:30 p.m.–5:00 p.m.</td>
<td>Smart Instrumentation Configuration</td>
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<td>5:00 p.m.</td>
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TurboNet is an open platform, custom configurable, integrated, DCS structured Turbine Generator Control System designed with the specialized features required for the complex control of modern steam and gas turbines, and their Generators (TurboNet is NOT PLC Based). Additional details available on our website.

Current Features

- TurboNet HMI/EWS & TDS Historian Linux Based
- TDS Written Software & Algorithms (No 3rd party software)
- Standard and Specialized I/O Modules with signal protection
- Triple Redundant Speed Inputs with Triple Redundant Back-Up Over-Speed Protection Modules that are TESTABLE ON-LINE!
- TSI and Vibration Monitoring Module with Diagnostic Analysis and Plotting
- EHC Servo loop Control Module (includes MPU input for Flow Divider, if applicable)
- Sequence of Events Module @ 1ms Time Stamping
- Flame Scanner Monitoring (for Honeywell Scanners)
- Low Density Termination Boards
- Easily applied to Balance of Plant (BOP) functions
- HMI Trending for Time Based, X-Y, and Polar (vibration & balancing) Plotting with Seamless TurboNet Historian Data Retrieval
- Integrated Excitation Control, Generator Protection, and Auto/Manual Synchronization
- Forty (40) Amp Redundant Power Supply Chassis with Standard Lambda Slide In/Out Power Supplies

COMING SOON

New I/O Module Features
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- Triple Redundant Power Load Unbalance (STG)
- Shift Voltage Monitoring
- True TMR I/O Signal Flow

Control Processor Chassis
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Turbine Diagnostic Services, Inc.
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Odessa, Florida 33556

Phone: (727) 375-8700
Fax: (727) 375-8710
Web: www.turbinedoctor.com
All attendees are welcome to attend the special track, Manufacturing Meets IT, organized by the Manufacturing Enterprise Solutions Association (MESA). MESA, a technical content contributor to ISA, has organized multiple sessions on topics such as:

- Smart Manufacturing
- New Developments in Metrics
- KPIs for Effective Process Control
- Metrics that Matter
- Recipe Transformation
- Operational Intelligence
- Time-in-State Metrics
- Asset Performance Management 2.0
- The Future of Manufacturing

About MESA
Manufacturing Enterprise Solutions Association (MESA) International is a worldwide not-for-profit community of manufacturing companies, information technology hardware and software suppliers, system integrators, consulting service providers, analysts, editors, academics and students. The combined purpose is to improve business results and production operations through optimized application and implementation of information technology and best management practices.

MESA member companies and individuals and our knowledgebase span the full range of manufacturing environments from discrete to batch to mixed model to process. The association’s efforts are focused on helping the manufacturing community to use information technology to provide real-time visibility into the production process. Further, MESA is committed to connecting that visibility to create business results, achieving such real value chain objectives such as lean manufacturing, collaborative supply chain management, quality and regulatory compliance, asset performance management, and product lifecycle management.

MESA provides a variety of programs and events that work together to help manufacturers:

- Better understand what is possible in terms of information technology to improve profitability, business value, agility, and customer satisfaction
- Engage “best practices” to see what other manufacturers have done to achieve measurable success
- Approach investment decisions in technology with more confidence
- Learn to improve the deployment of new technology

MESA’s Global Education Program and events present to manufacturing businesses those best practices used to solve critical problems within their corporation and those that extend to their suppliers, customers, and partners. As members, both manufacturers and information system providers benefit from working together on solving critical business issues and furthering the state of the industry in the use of integrated information systems.
MESA Session: Manufacturing Meets IT —
Room: Westchase Ballroom 2–4

New Developments in Metrics
Chairperson: John Clemson

9:00 a.m.
The Value of Big Data and the Industry 4.0 Revolution
John Jackiw and Dave McKnight

9:30 a.m.
Sustainability—What Does that Mean Looking Forward?
John Jackiw and Dave McKnight

10:00 a.m.
unConference Session: New Developments in Metrics
John Jackiw and Dave McKnight

Morning Session II: 11:00 a.m. – 12:30 p.m.

ISA101 Human Machine Interface Session — Room: Richmond 1
Chairperson: Maurice Wilkins

11:00 a.m.
ISA101: What It is and What It Isn’t—Status Update and Future Activities
Maurice Wilkins (Yokogawa and ISA101 Co-chair)

11:30 a.m.
ISA101: From Philosophy to Operation
Nick Sands (DuPont and ISA S&P Board VP)

12:00 p.m.
Old School to New School: Blending Established Tactics, Modern Technology, and ISA-Compliance HMI Screens at a Major Natural Gas Utility
John Benitz (Gray Matter Systems and ISA101 Clause Leader)

Safety Session — Room: Richmond 2
Chairperson: Mike Scott

11:00 a.m.
Workshop: Cost Justification for Safety Instrumented System Compliance
Mike Scott (aeSolution)

Security Session — Room: Richmond 3
Chairperson: John Cusimano

11:00 a.m.
Adapting NIST Cybersecurity Framework for Conformance Assessment
Kenny Mesker

11:45 a.m. – 12:30 p.m.
Performing an IACS Cyber Risk Assessment per ISA 62443
John Cusimano

Communication Session — Room: Briar Park 1
Chairperson: Penny Chen

11:00 a.m.
IEEE-P2413 IoT Architecture Framework Standardization
Wael Diab IEEE P2413

11:30 a.m.
Process Automation and IoT for Connected Industrial Enterprise
Kiyomori Tsuruhada (Yokogawa)

12:00 p.m.
Industrial Internet-of-Things
Herman Storey

ChemPID Session — Room: Briar Park 2
Chairperson: Alan Bryant

11:00 a.m.
3-P’s of Reliability
Jim Haw, Ken Long, and Craig Cotter

MESA Session: Manufacturing Meets IT —
Room: Westchase Ballroom 2–4

Smart Manufacturing
Chairperson: John Clemons

11:00 a.m.
What is Smart Manufacturing?
Brad Williams

11:30 a.m.
The Internet of Things (IoT) and Manufacturing
Brad Williams

12:00 p.m.
A Software Platform to Enable Smart Manufacturing
Brad Williams

Afternoon Session 1: 1:30 p.m. – 3:00 p.m.

Alarm Management Session — Room: Richmond 1
Chairperson: TBD

1:30 p.m.
Panel Discussion: The Past, Present, and Future of Alarm Management
Nick Sands

Safety Session — Room: Richmond 2
Chairperson: Mike Scott

1:30 p.m.
Useful Life of Safety Instrumented Systems
Stephen Thomas (Chevron)

2:00 p.m.
Towards Plant Instrumentation Safety Instrumented Function (SIF) Asset Management Excellence
Sharul A-Rashid

2:30 p.m.
Safety Life Cycle Management: Evolution of HIPS at Saudi Aramco
Chan Miller (Saudi Aramco)
Security Session — Room: Richmond 3
Chairperson: John Cusimano
1:30 p.m. – 2:15 p.m.
Applying ISA/IEC 62443-3-2 for Assessing Cybersecurity Risks of Drilling Assets (Including Existing and New Drilling Rigs)
Siv Hilde Houmb

2:15 p.m. – 3:00 p.m.
How Much is Enough?
Mike Firstenberg

Communication Session — Room: Briar Park 1
Chairperson: Penny Chen
1:30 p.m.
Shared Spectrum, NTIA’s Wireless Model City and the Implications to the Process Industries
Jeff Reed

2:00 p.m.
Panel Discussion: IoT—New Technologies, Standardizations, and Applications
Peter Fuhr (Oak Ridge National Laboratory), Sterling Rooke (X8 Systems), Jay Werb (AVNU), and Wael Diab (IEEE)

Pulp and Paper Session —
Room: Briar Park 2
Chairperson: Brad Calberg
1:30 p.m.
Optimizing Your Process Through Lignin Management
Brad Calberg

2:00 p.m.
Big Data Improves Plant Safety
Mark Nixon (Emerson Process Management)

2:30 p.m.
Wireless MPC Application for DWC Control
Willy Wojsznis (Emerson Process Management)

MESA Session: Manufacturing Meets IT —
Room: Westchase Ballroom 2–4
KPI’s for Effective Process Control
Chairperson: John Clemson
1:30 p.m.
KPI Lifecycle for Process Control
John Horst

2:00 p.m.
Methods and Tools for KPI Assessment
John Horst and Barry Ezell

2:30 p.m.
Field Tests of KPI Effectiveness Methods
John Horst and Barry Ezell

Afternoon Session II: 3:30 p.m. – 5:00 p.m.

ChemPID Session — Room: Richmond 1
Chairperson: Rhonda Pelton
3:30 p.m.
Integrating Multigenerational Automation Systems
Chad Harper

4:00 p.m.
High Performance Graphics No Pain No Gain
Robert Brooks

4:30 p.m.
OPEN

Safety Session — Room: Richmond 2
Chairperson: Mike Scott
3:30 p.m.
Safety Application Migration Meeting Current Functional Safety Compliance Best Practices
Dan Mulholland (Trinity)

4:00 p.m.
Incidents that Define Safe Automation
Eloise Roche

4:30 p.m.
Is Your Current Safety System Compliant Today’s Safety Standard?
Luis Duran (ABB)

Security Session — Room: Richmond 3
Chairperson: John Cusimano
3:30 p.m.
Panel Discussion: NIST Framework & ICS Cybersecurity Risk Assessment

Communication Session — Room: Briar Park 1
Chairperson: Penny Chen
Panel Discussion: Wireless Networks for Industrial Automation and Smart Manufacturing
NIST and ISA ComDiv

Pulp and Paper — Room: Briar Park 2
Chairperson: Brad Calberg
3:30 p.m.
Virtualization—A Powerful Tool for Process Control
John McIiwain (Honeywell—Performing Materials & Technologies)

MESA — Room: Westchase Ballroom 2-4
Chairperson: John Clemons
3:30 p.m.
unConference Session
Enterprise Manufacturing Solutions: Finally the Year of MES

Evening Event — Room: Grand Pavilion
2:00 p.m. – 7:00 p.m.
Tech Day
5:00 p.m. – 7:00 p.m.
YAPFEST (Young Automation Professionals)
Wednesday, 11 November

Morning Session I: 8:00 a.m. – 3:0 p.m.

Keynote Presentation — Room: Grand Ballroom Salons F–H
8:00 a.m.
Tomorrow’s Analytics Today—Enterprise Manufacturing Intelligence in Dow M&E
Lloyd Colegrove

Instrumentation Session — Room: Richmond 1
Chairperson: Murtaza Gandhi
9:00 a.m.
Gas Void Fraction Eliminator How Much Money are You Paying for Air?
Lonnie Barker
10:00 a.m.
Modifying Protection Method from Non-Incendive to Intrinsically Safe Installation
Hamad Balhareth

Safety Session — Room: Richmond 2
Chairperson: Mike Scott
9:00 a.m.
Workshop: Performance-Based Gas Detection System Design using Computational Fluid Dynamics (CFD) modeling of Gas Dispersion
Kevin Mitchell (Kenexis)

Security Session — Room: Richmond 3
Chairperson: John Cusimano
9:00 a.m.
Hardening Industrial Control Systems (ICS) to Avoid a Cyber Attack
Hector Perez
9:30 a.m.
Demystifying Government-Validated Solutions: Navy Case Study Shows How Critical Infrastructure and Facilities Can Benefit
Frank Ignazzitto

Communication Session — Room: Briar Park 1
Chairperson: Penny Chen
9:00 a.m.
Adoption of Wireless for Safety
Jay Werb (WCI Technical Director)

ChemPID Session — Room: Briar Park 2
Chairperson: Nick Sands
9:00 a.m.
Reality Check: Pitfalls in Alarm Management at a Greenfield Site
David Stobhar
9:30 a.m.
Alarm Management—We Rationalized Our Alarms, Now What? 5 Tips for Better Success
Michael Lyssy

10:00 a.m.
Alarm Management with High Performance HMI: The Compounding Benefits of a Unified Solution
Hector Perez

MESA Session: Manufacturing Meets IT — Room: Westchase
Ballroom 2–4
Metrics that Matter
Chairperson: John Clemens
9:00 a.m.
Metrics that Matter Survey Results
John Jackiw and Dave McKnight
9:30 a.m.
Are You Honest with Yourself? Introducing the MESA Metrics Maturity Model
John Jackiw and Dave McKnight
10:00 a.m.
Metrics that Matter unConference Session
John Jackiw and Dave McKnight

Morning Session II: 11:00 a.m. – 12:30 p.m.

Instrumentation Session — Room: Richmond 1
Chairperson: Murtaza Gandhi
11:00 a.m.
New Technology for Toxic and Flammable Gas Detection
Jason Schexnayder
11:30 a.m.
Toxic Gas Detectors for Shelter in Place (SIP)
Murtaza Gandhi

Safety Session — Room: Richmond 2
Chairperson: Mike Scott
11:00 a.m.
Tutorial: Safety Instrumented Systems Nuts and Bolts
Joe Veasey (aeSolutions)

Security Session — Room: Richmond 3
Chairperson: John Cusimano
11:00 a.m.
Cybersecurity ICS—Monitoring, Policies, and Procedures
Daniel Crandell
12:00 p.m.
Looking for Trouble on OT Networks: Tools and Techniques to Identify Threats to ICS Communications
Bryan Singer

Communication Session — Room: Briar Park 1
Chairperson: Penny Chen
11:00 a.m.
Development of Wireless in Safety
Murtaza Gandhi and Ted Schnaare (Emerson)
11:30 a.m.
Safety and Alarming Applications Based on ISA100 Wireless System
Toshi Hasegawa (Yokogawa)

Download the “ISA PCS 2015” mobile app from iTunes or Google Play
Wireless Applications in a Tank Farm
William Ayers (Honeywell)

ChemPID Session — Room: Briar Park 2
Chairperson: Nick Sands

11:00 a.m.
How to Make Money with Your Operator Graphics
Steve Ferrer

11:30 a.m.
Human Machine Interface (HMI) Design: The Good, the Bad, and the Ugly
Paul Gruhn

12:00 p.m.
Applying ISA101 HMI Concepts to Existing HMI Applications
Mike Lennon

MESA Session: Manufacturing Meets IT —
Room: Westchase Ballroom 2–4
Digitizing the Supply Chain: From Concept to Physical Product
Chairperson: John Clemons

11:00 a.m.
The Case of Change: Bridge the Gap from R&D to Manufacturing
Mike Williams and Steve Murray

11:30 a.m.
Automating Recipe Transformation from R&D to the Plant Floor
Mike Williams and Steve Murray

12:00 p.m.
Use Case for Enterprise Recipe Management Solutions
Mike Williams and Steve Murray

Afternoon Session I: 1:30 p.m. – 3:00 p.m.

Advanced Control and Simulation Session — Room: Richmond 1
Chairperson: Kash Behdinan

1:30 p.m.
How to Update Your Plant’s Calibration Program
Roy Tomalino

2:00 p.m.
Field Calibration & Testing of Industrial Vibration Protection Systems
Michael Scott

2:30 p.m.
Reliability in Measurements: Common Misconceptions in Calibration Management
Henry Johnston

Safety Session — Room: Richmond 2
Chairperson: Mike Scott

1:30 p.m.
Workshop: Safety Instrumented Burner Management Systems—Codes and Standards Update
Charlie Fialkowski (Siemens)

1:30 p.m.
Safe Integration: Secure Industrial to Business Network Architectures for the Networked Enterprise
Jeff Melrose

2:30 p.m.
ICS/SCADA Security—Building it IN
Marco Ayala

Communication Session — Room: Briar Park 1
Chairperson: Penny Chen

1:30 p.m.
Ethernet Backbone Improves Design, Implementation, and Lifecycle Management of Safety Systems
Max Erwin (GE)

2:00 p.m.
An Owner and Operator’s Journey Toward Safety and Performance with All Digital Wireless Control (ADWC)
Shahid Bashir (ControlNex)

2:30 p.m.
Best Practices to Improve the Safety and Productivity of Plant Operations
Mike Neill (Petrotechnics)

Pulp and Paper Session — Room: Briar Park 2
Chairperson: Brad Carlberg

1:30 p.m.
Industrial Advances in Wireless Control
Terry Blevins (Emerson Process Management)

MESA Session: Manufacturing Meets IT —
Room: Westchase Ballroom 2–4
KPIML
Chairperson: John Clemons

1:30 p.m.
Operational Intelligence, Risk Management, and the Data to Decision Gap
Bruce Taylor

2:00 p.m.
A KPI Standard to Improve Process Performance
John Horst

2:30 p.m.
KPIML—Defining and Exchanging Key Performance Indicators
Dave Emerson

Afternoon Session II: 3:30 p.m. – 5:00 p.m.

Advanced Control and Simulation Session — Room: Richmond 1
Chairperson: Kash Behdinan

3:30 p.m.
A Holistic View on Preventing One of the Largest Process Industry Risks: Tank Overfills
Carl-Johan Roos
Proof-Testing Level Gauges remotely from the Operator Room: A Realistic Dream or Not?
Carl-Johan Roos

The Importance of & Complexities Associated with Selecting the Right Thermowell Material
Avverosuoghene Omughelli

Safety Session — Room: Richmond 2
Chairperson: Mike Scott
3:30 p.m.
Workshop: Safety Lifecycle Compliance Journey: If I’d Have Known Then What I Know Now…
Dave Rieder (Chevron) and Stephen Thomas (Chevron)

Security Session — Room: Richmond 3
Chairperson: John Cusimano
3:30 p.m.
Panel Discussion: Best Practices in Securing ICS Systems

Communication Session — Room: Briar Park 1
Chairperson: Penny Chen
3:30 p.m.
Effects of Wireless Sensor Network Communications on Simulated Industrial Processes Topics
Rick Candell (NIST)
4:00 p.m.
Effects of Wireless Packet Loss in Industrial Process Control Systems
Yongkang Liu (NIST)
4:30 p.m.
Technology Migration Unifies Plant Communication Infrastructure
David Burrell (Phoenix Contact)

Pulp and Paper Session — Room: Briar Park 2
Chairperson: Brad Carlberg
3:30 p.m.
Is Process Control Training REALLY No Longer Necessary?
Harold Wade
4:00 p.m.
Addressing Cycling Problems in Pulp & Paper Processes
Steve Obermann (Metso)
4:30 p.m.
Tutorial: Diagnosing the Root Cause of Oscillations
Steve Obermann (Metso)

MESA Session: Manufacturing Meets IT —
Room: Westchase Ballroom 2–4

Time-in-State Metric
Chairperson: John Clemons
3:30 p.m.
Introduction to Time-in-State
Gerhard Greef
4:00 p.m.
Case Study: Applying Time-in-State
Gerhard Greef and Kobus van der Merwe

Panel Discussion: Time-in-State
Gerhard Greef, Kobus van der Merwe, and Jaco van der Merwe

Evening Event — Room: Grand Pavilion
5:00 p.m. – 7:00 p.m.
Maverick Cocktail Reception (registered attendees only)

Thursday, 12 November

Morning Session I: 8:00 a.m. – 10:30 a.m.

Keynote Presentation — Room: Grand Ballroom, Salons F–H
8:00 a.m.
Process Industry Accidents—Lessons Learned the Hard Way and How to Avoid Them
Paul Gruhn

Instrumentation and Control Session — Room: Richmond 1
Chairperson: Murtaza Gandhi
9:00 a.m.
Novel Design of Ubiquitous Data—Centric Automation and Control Architecture
Ghalib Alhashim (Saudi Aramco)
10:00 a.m.
Implementation of New “Characterized” I/O Modules for an Operating Facility Upgrade
Manuel Hernandez

Safety Session — Room: Richmond 2
Chairperson: Mike Scott
9:00 a.m.
Functional Safety in Integrated Machinery Protection System (IMPS)
S. Roy (Schneider Electric)
9:30 a.m.
Independence and Separation of Automated Systems
Angela Summers (SIS-Tech)
10:00 a.m.
FMEDA Predictions and OREDA Estimations for Mechanical Failure Rates: Explaining the Differences
Loren Stewart (exida)

Security Session — Room: Richmond 3
Chairperson: John Cusimano
9:00 a.m.
ICS Cybersecurity Process Lifecycle
James (Jim) McGlone
9:45 a.m.
Making a Business Case for IACS Cybersecurity
Don Dickenson
Educational Session — Room: Briar Park 1
Chairperson: Kelvin Ericson

9:00 a.m.
   How to use ISA—Engineers/Technicians Use of the Resources
   Gerald Cockrell

9:30 a.m.
   Distance Automation Engineering Labs
   Kelvin Erickson

10:00 a.m.
   Deterministic Process Analysis
   Randy Buchanan and J. Burt

ChemPID Session —
Chairperson: Nick Sands
Room: Briar Park 2

9:00 a.m.
   Report from the Trenches—Current Alarm Management Practices
   John Bogdan

9:30 a.m.
   Alarm Lifecycle Support to Get Alarm Floods Under Control
   Martin Hollender

10:00 a.m.
   Measuring and Eliminating Stale Alarms
   Kim Van Camp

MESA Session: Manufacturing Meets IT —
Room: Westchase Ballroom 2–4
unConference Session—The Future of Manufacturing
Chairperson: John Clemons

9:00 a.m.
   unConference Session—The Future of Manufacturing
   Mike Yorst, John Jackiw, and John Clemons

Morning Session II: 11:00 a.m. – 12:30 p.m.

Instrumentation and Control Session — Room: Richmond 1
Chairperson: Murtaza Gandhi

11:00 a.m.
   DCS Migration: Lessons Learned
   Randy Conley

11:30 a.m.
   Artificial Intelligence in Process Control
   Kash Behdinan

12:00 p.m.
   It Takes a Village: Maintaining APC Effectiveness
   Randy Conley

Safety Session — Room: Richmond 2
Chairperson: Mike Scott

11:00 a.m.
   Workshop: Fire and Gas Detection for the Process Industry: Are there Real Dangers behind the Smoke and Mirrors of F&G Detection Mapping?
   James McNay (MicroPack)

Security Session — Room: Richmond 3
Chairperson: John Cusimano

11:00 a.m.
   An Exciting Cybersecurity Program Approach
   Meredith Allen

12:00 p.m.
   OPEN

Educational Session — Room: Briar Park 1
Chairperson: Kelvin Ericson

11:00 a.m.
   Education Division Session
   Kelvin Ericson

ChemPID — Room: Briar Park 2
Chairperson: Nick Sands

11:00 a.m.
   Intelligent Visual Information Systems—Crucial for Safety, Security and Efficiency
   Paul Shkedy

11:30 a.m.
   Best Practices in SIS HM
   Bridget Fitzpatrick

12:00 p.m.
   Human Machine Interfaces In Harsh Environments: Why, Where and How
   Jeff Hayes

MESA Session: Manufacturing Meets IT —
Room: Westchase Ballroom 2–4
APM 2.0—The New Incarnation of Asset Performance Management
Chairperson: John Clemons

11:00 a.m.
   Asset Performance Management 2.0—Revisiting the Mission of APM
   Mike Williams and Andrew Soigner

11:30 a.m.
   Case Studies: Leveraging Real Time Intelligence and Mobility for Driving Asset Performance
   Ananth Seshan

12:00 p.m.
   OPEN

Afternoon Session I: 1:30 p.m. – 3:00 p.m.

Data Analysis and Historization Session — Room: Richmond 1
Chairperson: Murtaza Gandhi

1:30 p.m.
   Upgrade Considerations for Control System
   Cheri Haarmeyer

2:00 p.m.
   Change Your Board Operator to a Process Manager with State-Based Control
   Tom Nolan
2:30 p.m.
Do Your Progress Meetings Hinder Progress?
Scott Hayes

Safety Session — Room: Richmond 2
Chairperson: Mike Scott

1:30 p.m.
Workshop: Advanced Topics in Safety Instrumented Systems
Paul Gruhn (Rockwell)

Security Session — Room: Richmond 3
Chairperson: John Cusimano

1:30 p.m.
Cybersecurity for Manufacturing Systems
Keith Stouffer

2:00 p.m.
Adoption of Wireless for Safety
Jay Werb

2:30 p.m.
OPEN

Fire and Gas Detection Session — Room: Briar Park 1
Session Chair: Edward Naranjo

1:30 p.m.
Detection of Gas Leaks in Air—Cooled Heat Exchangers
Megan McCoy

2:00 p.m.
Alarm Setting for Combustible and Toxic Gas Detectors
Geoff Wilson

2:30 p.m.
Detection of Natural Gas Leaks by Open Path and Ultrasonic Gas—Leak Detection in Onshore Gas Wells and Unmanned Platforms
Geoff Wilson

ChemPID Session — Room: Briar Park 2
Chairperson: Rhonda Pelton

1:30 p.m.
How to Beat your Startup Date
Tim Green

2:00 p.m.
Automation Infrastructure Upgrades at an Oil Storage Terminal
Richard Caouette

2:30 p.m.
OPEN

MESA Session: Manufacturing Meets IT —
Room: Westchase Ballroom 2–4
Manufacturing Enterprise Solutions for the Process Industries
Chairperson: John Clemons

1:30 p.m.
Manufacturing Enterprise Solutions for Process Industries
Aasim Waheed

2:00 p.m.
Prevent the Next Catastrophe: How to Develop Prescriptive Action from Big Data for Plant Asset Management
Mike Brooks

2:30 p.m.
Protecting the Data Chain for More Accurate MES Applications
Mark Carrigan

Afternoon Session II: 3:30 p.m. – 5:00 p.m.

Data Analysis and Historization Session — Room: Richmond 1
Chairperson: Murtaza Gandhi

3:30 p.m.
Fukashima and Three Mile Island—Lessons learned, A Nuclear Industry Perspective
Raghu Avali

4:00 p.m.
Panel Asset Management
Kash Behdinan

4:30 p.m.
Smart Instrumentation Configuration
Kash Behdinan

Safety Session — Room: Richmond 2
Chairperson: Mike Scott

3:30 p.m.
Panel Discussion: IEC61511 Updates: What’s New in the Next Release and What Does it Mean to You?
Kevin Klein (Chevron), Angela Summers (SIS-Tech), R. Bhojani (BP), and P. Skipp (Rockwell)

4:00 p.m.
Safety Alarm Management Challenges and Best Practices
Mike Carter

4:30 p.m.
OPEN

ChemPID Session — Room: Briar Park 2
Chairperson: Chad Harper

3:30 p.m.
Building the Automation Professional of Tomorrow
Nick Sands

Evening Event
5:00 p.m. – 9:00 p.m.
ISA Houston Section Chili Cookoff
Location: Houston Farm & Ranch Club
1 Abercrombie St., Houston, Texas 77084
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