Safe, secure process control doesn’t just happen. It requires the expertise to make it happen.

Sponsored by the ISA Technical Industry Divisions of:
- Process Measurement and Control
- Safety and Cybersecurity
- Chemical and Petroleum Industries
- Education
- Communications
- Pulp and Paper Industry
- Management

Gold Champions
500+ technologists, strategists & thought leaders at your service.

The complexities of manufacturing require strategic solutions. MAVERICK Technologies can help.

15,000+ man-years of experience

15,000+ successful projects in 46 countries

21 U.S. locations

Visit mavtechglobal.com today to speak with a support specialist about what MAVERICK can do for you.
ISA is extremely excited to once again bring to Houston the Process Control & Safety Symposium and Exhibition, a content-rich, power-packed conference and exhibition designed to help process measurement and control professionals in chemical, petrochemical, energy, and other process industry sectors operate more safely and securely.

This far-reaching event—drawing on the global expertise of seven ISA technical divisions—offers an outstanding combination of world-class training, expert-led presentations, keynote addresses, paper sessions, tutorials, interactive panel discussions, vendor and solution demonstrations, and networking activities.

Expand your knowledge and capabilities in all areas of process automation

- Benefit from informative tutorials and incisive, thought-provoking paper sessions on safety, security, process measurement and control, communications and education
- Attend one of three essential ISA safety and security technical training short courses (and earn valuable CEUs):
  - Introduction to Industrial Automation Security and the ISA/IEC 62443 Standards (IC32C)
  - An Introduction to Safety Instrumented Systems (EC50C)
  - Electrical Controls for the Control System Technician (TI23C)
- Learn about the latest developments and emerging trends in process control and industrial cybersecurity that are determining future operational needs, expectations, and requirements
- Discover the latest technologies and applications across all core solution areas at the event’s vendor exhibition
- Network with the world’s leading experts in critical areas of instrumentation, communications, control systems, and safety and security. Along with other engineers, technicians, and plant managers from oil and gas, refining, chemical, petrochemical, and other process industries
- Receive additional technical perspectives from ISA’s subject-matter experts from its various technical industry divisions and local section members

Take a minute to review the outstanding program we’ve put together, and make your plans early to attend.

We look forward to you being a part of this year’s event!

—The PCS Planning Team
SmartLine® Connection Advantage combines SmartLine’s industry leading performance with the Experion® control system to reduce cost, increase safety and improve efficiency. No other transmitter even comes close.

For more information, please visit www.hwll.co/smarterline
Thank you Champions!
ISA appreciates the generous support of its event Champions and their ongoing commitment to and leadership in process control and safety.

Platinum Keynote
beamex

Platinum Reception
MAVERICK
TECHNOLOGIES
A Rockwell Automation Company

Platinum Registration
aeSolutions

Platinum Luncheon
rkl eSolutions

Platinum Happy Hour
MSI

Gold Champions
EMERSON
Process Management

Silver Champion
Pointfar Automation LLC

Discover an exhibit that features the latest technologies and applications across all core solution areas

2016 Exhibitors
- ABB Inc.
- Advance Technology Valves
- aeSolutions
- Applied Control Engineering, Inc.
- AutoSol
- Autronica Fire and Security AS
- BakerRisk
- Beamex
- Compressor Controls Corporation
- CyberX
- Elma Electronic
- Emerson Process Management
- ENMET
- EPLAN Software & Services
- ESP Safety, Inc.
- Exida
- FireBus Systems
- GDS Corp.
- GHD Services
- Graphic Packaging
- Hellma Analytics
- HIMA
- Honeywell
- Indegy
- Kenexis Consulting Corporation
- KIN-TEK Analytical
- Mangan Software Solutions
- Maverick Technologies
- Metso
- Micropak Detection
- MSI
- Phoenix Contact
- PLCcontrol Solutions LLC
- Pointfar Automation LLC
- Process Solutions Corp.
- Prozess Technologie
- rkl eSolutions
- Rockwell Automation
- RTP Corp.
- Schneider-Electric
- Schweitzer Engineering Labs
- SecureNOK
- Sika USA, Inc.
- SIS – Tech
- tecSUSA
- Test Equipment USA
- Ultra Electronics
- United Electric Controls
- Van London Co.
## Schedule-at-a-Glance | Tuesday, 8 November

**Time**

<table>
<thead>
<tr>
<th>7:30 a.m.</th>
<th>Morning Refreshments and Speakers’ Breakfast</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 a.m.</td>
<td></td>
</tr>
</tbody>
</table>

**Opening/Welcome Remarks** Jim Keaveney, ISA President

**Keynote Presentation:** Process Safety: Are We Getting Any Better? Recollections on Four Decades of Experience and More

Paul Gruhn

<table>
<thead>
<tr>
<th>Room: Briar Park 3</th>
<th>Room: Briar Park 1 &amp; 2</th>
<th>Room: Richmond 1</th>
<th>Room: Richmond 2</th>
<th>Room: Richmond 3</th>
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<tbody>
<tr>
<td>9:00 a.m.</td>
<td>9:15 a.m.</td>
<td>9:30 a.m.</td>
<td>9:45 a.m.</td>
<td>10:00 a.m.</td>
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<td>10:30 a.m.</td>
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</table>

**Break • Exhibits**

<table>
<thead>
<tr>
<th>11:00 a.m.</th>
<th>11:15 a.m.</th>
<th>11:30 a.m.</th>
<th>11:45 a.m.</th>
<th>12:00 p.m.</th>
<th>12:15 p.m.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Improving Plant Efficiency Using ISA Standards</td>
<td>Safety Session</td>
<td>Security Session</td>
<td>Communication Session</td>
<td>PMCD/ChemPID Session: Operational Excellence with Model Predictive Control</td>
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<tr>
<td>12:30 p.m.</td>
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**Lunch • Exhibits**

<table>
<thead>
<tr>
<th>1:00 p.m.</th>
<th>1:15 p.m.</th>
<th>1:30 p.m.</th>
<th>1:45 p.m.</th>
<th>2:00 p.m.</th>
<th>2:15 p.m.</th>
<th>2:30 p.m.</th>
<th>2:45 p.m.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Improving Plant Performance with Smart Manufacturing: ISA Standards-Based Data Connectivity</td>
<td>Safety Session</td>
<td>Security Session</td>
<td>Communication Session</td>
<td>PMCD/ChemPID Session: DCS Migration</td>
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## Schedule-at-a-glance | Tuesday, 8 November

### Time

<table>
<thead>
<tr>
<th>Time</th>
<th>Educational Session</th>
<th>Safety Session</th>
<th>Security Session</th>
<th>Communication Session</th>
<th>PMCD/ChemPID Session: DCS Migration</th>
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<tr>
<td>9:30 a.m.</td>
<td>No sessions scheduled at this time</td>
<td>Safety Instrumented Systems Open Discussion/ Q&amp;A</td>
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### Break • Exhibits

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<th>Security Session</th>
<th>Communication Session</th>
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### Lunch • Exhibits

## Schedule-at-a-glance | Wednesday, 9 November

### Time

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<tr>
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<tbody>
<tr>
<td>7:30 a.m.</td>
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<td></td>
<td>Operator Performance and Situational Awareness Visibility</td>
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<tr>
<td>8:00 a.m.</td>
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<td>New Approaches to Navigating the Operating Envelope</td>
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<tr>
<td>9:00 a.m.</td>
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<td>Overcoming Objections to High Performance HMI Migration</td>
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<td>9:15 a.m.</td>
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### Break • Exhibits

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<td>High Integrity HMI</td>
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<td>11:15 a.m.</td>
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<td>Alarm Management Meets SIS</td>
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<td>11:30 a.m.</td>
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<td>Alarm Classification—Not All Alarms are Created Equal!</td>
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<td>11:45 a.m.</td>
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### Lunch • Exhibits

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Note: For continued information, refer to the next page.
### Schedule-at-a-glance | Wednesday, 9 November

#### Time

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<th>Time</th>
<th>Room: Briar Park 3</th>
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<th>Room: Richmond 1</th>
<th>Room: Richmond 2</th>
<th>Room: Richmond 3</th>
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</thead>
<tbody>
<tr>
<td>1:30 p.m.</td>
<td>Student Session</td>
<td>Safety Session</td>
<td>Security Session</td>
<td>Communication Session</td>
<td>PMCD/ChemPID Session: Control Primer: Control Strategies</td>
</tr>
<tr>
<td></td>
<td>Sustainable Approach for Energy Analysis (SAFE)</td>
<td>Bringing IT into an OT World: Establishing a Cybersecurity Baseline for Proprietary Control Systems</td>
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<tr>
<td>1:45 p.m.</td>
<td>A Load Balancing Approach Using Hopfield Networks</td>
<td>Workshop: What Does The Future Look Like for Performance-based Fire &amp; Gas Engineering?</td>
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<tr>
<td>2:00 p.m.</td>
<td>Auction-Based Model Design for Mobile Cloud Computing</td>
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<td>控制策略提高过程能力和效率</td>
</tr>
<tr>
<td>2:15 p.m.</td>
<td>Intelligent Server Selection Using Learning Automation</td>
<td>Rocky Relationship Between Safety and Security</td>
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<td>2:30 p.m.</td>
<td>Performance Monitoring of Virtual Machines</td>
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<tr>
<td>2:45 p.m.</td>
<td>Blood Clot Detection System Based on Pulse Transmit Time Analysis</td>
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<tr>
<td>3:00 p.m.</td>
<td>Break • Exhibits</td>
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### Schedule-at-a-glance | Thursday, 10 November

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<tr>
<td>7:30 a.m.</td>
<td>Student Session</td>
<td>Safety Session</td>
<td>Security Session</td>
<td>Communication Session</td>
<td>PMCD/ChemPID Session: Operational Excellence with Simulation</td>
</tr>
<tr>
<td>8:00 a.m.</td>
<td>Morning Refreshments and Speakers’ Breakfast</td>
<td>Keynote Presentation: Safe and Secure? The State of Industrial Cybersecurity</td>
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<td></td>
<td>Steve Mustard</td>
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<tr>
<td>9:00 a.m.</td>
<td>SIS Identification and Design Guideline Development at Williams</td>
<td>Practical Approaches to Securely Integrating Business and Production</td>
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<tr>
<td>9:15 a.m.</td>
<td>No sessions scheduled at this time</td>
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<tr>
<td>9:30 a.m.</td>
<td>Automated SIS Validation—Benefits and a Practical Approach to Implementation</td>
<td>Looking Beyond Traditional Defenses Against Cyber Physical Threats</td>
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<td>9:45 a.m.</td>
<td>No sessions scheduled at this time</td>
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<td>10:00 a.m.</td>
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<th>Room: Richmond 3</th>
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</thead>
<tbody>
<tr>
<td>5:00 p.m.</td>
<td>Process Rocks! Evening Reception, Sponsored by MAVERICK Technologies—A Rockwell Automation Company</td>
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<tr>
<td>10:15 a.m.</td>
<td>No sessions scheduled at this time</td>
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<td>10:30 a.m.</td>
<td>Break • Exhibits</td>
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## Schedule-at-a-glance | Thursday, 10 November  Cont’d

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<th>Room: Richmond 3</th>
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<tr>
<td>11:00 a.m.</td>
<td>Student Session</td>
<td>Safety Session</td>
<td>Security Session</td>
<td>Communication Session</td>
<td>PMCD/ChemPID Session: Analyzers</td>
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<td></td>
<td>Testing In-Situ Meter Verification Technology—Detecting Corrosion and Erosion</td>
</tr>
<tr>
<td>11:15 a.m.</td>
<td></td>
<td>Workshop: Taking Ownership Of The Fire and Gas System (FGS) While Reducing Cost And Increasing Safety—A Practical Approach To F&amp;G Design</td>
<td>Preliminary Results from the NIST Cybersecurity for Smart Manufacturing Systems Testbed Discrete Manufacturing Robotic Enclave</td>
<td>No sessions scheduled at this time</td>
<td>Rule-Based Fallback Control System Via Kalman Decomposition</td>
</tr>
<tr>
<td>11:30 a.m.</td>
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<td>No sessions scheduled this time</td>
<td>No sessions scheduled at this time</td>
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<td>Testing In-Situ Meter Verification Technology—Detecting Corrosion and Erosion</td>
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<tr>
<td>12:00 p.m.</td>
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<td>Rule-Based Fallback Control System Via Kalman Decomposition</td>
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<td>12:15 p.m.</td>
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<td>Rule-Based Fallback Control System Via Kalman Decomposition</td>
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<tr>
<td>12:30 p.m.</td>
<td>Lunch</td>
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<td>Rule-Based Fallback Control System Via Kalman Decomposition</td>
</tr>
<tr>
<td>1:30 p.m.</td>
<td>No sessions scheduled at this time</td>
<td>How Important is Realistic Failure Rates for Safety Instrumented Functions?</td>
<td>Military Strategic Targets And How To Avoid Creating One</td>
<td>Top Trends in Modern ERP</td>
<td>Rule-Based Fallback Control System Via Kalman Decomposition</td>
</tr>
<tr>
<td>1:45 p.m.</td>
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<td></td>
<td>Rule-Based Fallback Control System Via Kalman Decomposition</td>
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<tr>
<td>2:00 p.m.</td>
<td></td>
<td>Advanced Diagnostic Coverage to Extend Proof Test Intervals</td>
<td>No session scheduled at this time</td>
<td>Faster Time to Value with Cloud ERP</td>
<td>Rule-Based Fallback Control System Via Kalman Decomposition</td>
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<tr>
<td>2:15 p.m.</td>
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<td>No sessions scheduled at this time</td>
<td>No session scheduled at this time</td>
<td>Faster Time to Value with Cloud ERP</td>
<td>Rule-Based Fallback Control System Via Kalman Decomposition</td>
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<tr>
<td>2:30 p.m.</td>
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<td>Rule-Based Fallback Control System Via Kalman Decomposition</td>
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<tr>
<td>2:45 p.m.</td>
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<td></td>
<td>Rule-Based Fallback Control System Via Kalman Decomposition</td>
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<tr>
<td>3:00 p.m.</td>
<td>Break • Exhibits</td>
<td></td>
<td></td>
<td></td>
<td>Rule-Based Fallback Control System Via Kalman Decomposition</td>
</tr>
<tr>
<td>3:30 p.m.</td>
<td>No sessions scheduled at this time</td>
<td>Panel Session: Implementation of the Safety Lifecycle in the Real World—What’s Working and What’s Not</td>
<td>No sessions scheduled at this time</td>
<td>No session scheduled at this time</td>
<td>Calibration Management in Tough Economic Times</td>
</tr>
<tr>
<td>3:45 p.m.</td>
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<td>Calibration Management in Tough Economic Times</td>
</tr>
<tr>
<td>4:00 p.m.</td>
<td></td>
<td>Panel Session: Implementation of the Safety Lifecycle in the Real World—What’s Working and What’s Not</td>
<td>No sessions scheduled at this time</td>
<td>No session scheduled at this time</td>
<td>Understanding Variability for Instrument Calibration</td>
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### ISA PCS 2016 Mobile App

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Contact Ged Farnaby, Director of Business Development
ged.farnaby@aesolns.com  281.967.2511  aesolns.com
**Keynote Addresses**

**Tuesday, 8 November**

**Paul Gruhn**
Global Functional Safety Consultant at aeSolutions, is a highly acclaimed and awarded safety expert in the automation and control field, with more than four decades of experience. He is an ISA Fellow, the co-chair of the ISA 84 standard committee (on safety instrumented systems), an industry leader. aeSolutions is proud to be a long-time supporter of ISA. Please contact Ged Farnaby, Director of Business Development at ged.farnaby@aesolns.com or call 281.967.2511.

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

**Steve Mustard**
Steve Mustard works with companies to improve their performance through the identification of process bottlenecks and the intelligent introduction of technology to remove them. A UK registered Chartered Engineer and European registered Eur Ing with development and management experience in business process automation across multiple sectors. A Fellow of Institution of Engineering and Technology (IET) and an ISA Certified Automation Professional (CAP). Former Chairman of the IET’s Americas Regional Board. Steve Mustard has been in the software development business for over 20 years. Steve's career has included development of embedded software and hardware for military applications as well as the development of products for the remote control and monitoring of utility assets. During his career, Steve has gained extensive experience of the benefits of integrating Enterprise Resource Planning (ERP), real time processing, decision support and other disparate systems to improve business processes and now couples this with knowledge of the Six Sigma methodology to allow him to analyze existing processes and identify bottlenecks and other issues.

Steve’s previous and current client list includes the UK Ministry of Defence, NATO; major utilities such as Anglian Water Services and Sydney Water Corporation; Oil and gas majors such as BG Group and Aera Energy; and leading commercial organizations such as Quintiles Laboratories.

**Wednesday, 9 November**

**Dr. Bonnie J. Dunbar**
Retired NASA astronaut, engineer and educator, has joined Texas A&M Engineering as a Texas A&M Engineering Experiment Station (TEES) Distinguished Research Professor in the Department of Aerospace Engineering. She also has a joint appointment as the director of the TEES Institute for Engineering Education and Innovation (IEEI).

Dunbar, who is a member of the prestigious National Academy of Engineering, comes to Texas A&M from the University of Houston where she provided leadership in the development of a new integrated university science, technology, engineering and mathematics (STEM) center. She was an M.D. Anderson Professor of Mechanical Engineering and she developed a new innovative course for the introduction of engineering to freshmen students. She also directed the SICSA Space Architecture graduate program. She has devoted her life to furthering engineering, engineering education, and the pursuit of human space exploration.

Dunbar worked for The Rockwell International Space Division Company building Space Shuttle Columbia and worked for 27 years at NASA, first as a flight controller; then as a mission specialist astronaut, where she flew five space shuttle flights, logging more than 50 days in space; and then as member of the Senior Executive Service (SES). Her executive service included assistant NASA JSC director for university research; deputy director for Flight Crew Operations; and as NASA headquarters deputy associate administrator for the Office of Life and Microgravity Sciences and Applications (OLMSA).

After retiring from NASA, Dunbar became president and CEO of The Museum of Flight in Seattle, where she established a new Space Gallery and expanded its K12 STEM educational offerings. She has also consulted in aerospace and STEM education as the president of Dunbar International LLC, and is an internationally known public speaker.

Dunbar holds bachelor’s and master’s degrees in ceramic engineering from the University of Washington and a Ph.D. in mechanical/ biomedical engineering from the University of Houston. She is a Fellow of the American Ceramic Society, the American Institute of Aeronautics and Astronautics, and the Royal Aeronautical Society. She has been awarded the NASA Space Flight Medal five times, the NASA Exceptional Leadership Medal and the NASA Distinguished Service Medal. Dunbar was inducted into the Royal Society of Edinburgh, and in 2002 was elected to the US National Academy of Engineering. In 2013, she was selected into the Astronaut Hall of Fame.

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Electrical Controls for the Control System Technician (TI23C)

This course will focus on electrical control devices that are frequently overlooked in a formal training programs. It will speed up the learning process involving electrical devices and result in a higher level of job performance. It will help improve knowledge-based skills, improve work flow efficiencies and minimize errors that result in unsafe circumstances and possible personal injury and property losses.

Instructor: Thomas Stokes
Thomas L. Stokes has 25 years of industrial control systems experience in production, maintenance and supervision. He also has extensive teaching experience acquired at San Jacinto College, in the Instrumentation Technology Department, where he continues to teach as an adjunct faculty member. He has also taught short courses in various instrumentation subjects for Occidental, Eisai, Valero, Shell Oil, DuPont and the Texas High School Technical Preparation Program. He is a member of the Instrumentation Technology Advisory Committee, an ISA Senior Member, and a member of the Texas Community College Teachers Association.

Introduction to Industrial Automation Security and the ISA/IEC 62443 Standards (IC32C)

Understanding how to secure factory automation, process control, and Supervisory Control and Data Acquisition (SCADA) networks is critical if you want to protect them from viruses, hackers, spies, and saboteurs. This seminar teaches you the basics of the ISA/IEC 62443 standards and how these can be applied in the typical factory or plant. In this seminar, you will be introduced to the terminology, concepts, and models, as well as the element of creating a cybersecurity management system will be explained along with how these should be applied to industrial automation and control systems.

Instructor: John Cusimano
John Cusimano is an industrial control system cybersecurity and functional safety expert with more than 20 years of experience. He has performed or supervised numerous control system cybersecurity vulnerability and cyber risk assessments in the oil & gas, pipeline, chemical, water/wastewater, pharmaceutical and power industries per NIST, ISA/IEC 62443 and NERC CIP standards. He has also overseen and participated in the security testing and certification of several control and safety systems per the ISASecure and Achilles security certification programs. A leader in the development of ICS cybersecurity standards and best practices, John is Chairman of ISA 99 WG4 TG2 Zones & Conduits committee, and co-chair of ISA 99 WG4 TG6 Product Development committee. His is also the lead developer and instructor for the ISA IC32 series of courses. Prior to joining aeSolutions, John was director of cybersecurity services for Exida, and held several process automation and safety related positions with Siemens, Eastman Kodak Company, and Moore Products Co. John has a B.S. degree in Electrical and Computer Engineering from Clarkson University and holds CFSE, CISSP and GICSP certifications.

Introduction to Safety Instrumented Systems (EC50C)

There are many different ways of designing a safety instrumented system (SIS). Questions like these are being asked by users and engineering firms alike:

- Which technology should be used (electric, electronic, or programmable)?
- What level of redundancy is appropriate (single, dual, or triple)?
- How often should systems be tested (monthly, quarterly, yearly, or once per shutdown)?
- What about field devices (technology, level of redundancy, and test intervals)?

Debate continues as to how one even makes these choices (past experience, qualitative judgment, quantitative analysis, etc.). This seminar will cover the basics of what needs to be done in the design and selection of safety systems.

Instructor: Paul Gruhn
Paul Gruhn is currently the Global Functional Safety Consultant at aeSolutions. Gruhn is a member of the ISA 84 committee, co-author of the ISA textbook “Safety Instrumented Systems: Design, Analysis and Justification,” author of many articles, and the developer of the industry's first safety system modeling software package. He is a registered professional engineer in Texas, an ISA 84 Expert, and an ISA Fellow. He has been an ISA training instructor since 1996.
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PCS 2016 Technical Program

Monday, 7 November

8:00 a.m. – 4:00 p.m.

ISA Training Offerings | Richmond 1, 2 & 3

<table>
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<td>Electrical Controls for the Control System Technician (TI23C)</td>
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<td>Instructor: Thomas Stokes</td>
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<tr>
<td>Introduction to Industrial Automation Security and the ISA/IEC 62443 Standards (IC32C)</td>
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<tr>
<td>Instructor: John Cusimano</td>
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<tr>
<td>An Introduction to Safety Instrumented Systems (EC50C)</td>
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<td>Instructor: Paul Gruhn</td>
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Exhibitor Setup/Move In | Grand Pavilion

Tuesday, 8 November

7:30 a.m. – 8:00 a.m.

Morning Refreshments | Grand Pavilion

Speakers’ Breakfast | Westchase

8:00 a.m. – 9:00 a.m.

Opening/Welcoming Remarks | Grand Pavilion Foyer
Jim Keaveney, ISA President

Keynote Presentation | Grand Pavilion Foyer
Paul Gruhn, aeSolutions

Morning Session I: 9:00 a.m. – 10:30 a.m.

Changing the World: ISA Standards | Briar Park 3
Chairperson: Nicholas Sands

The Amazing Secret World of ISA Standards
Nicholas Sands, Dupont

Securing the Industrial World: ISA99 Highlights
Johan Nye, Exxon Mobil

Keeping the Industrial World Safe: ISA84 Highlights
Paul Gruhn, aeSolutions

Safety Session | Briar Park 1 & 2
Chairperson: Mike Scott

Panel Session: Safety Lifecycle Implementation Within a Large Capital Project
E. Linter, Invista, Lee Swindler, Maverick; M. Frazier, Jacobs Engineering; N. Prieto-Linam, BP

Security Session | Richmond 1
Chairperson: John Cusimano

10 Step Methodology for Addressing Standards Compliance for ICS
Gary Williams, Schneider Electric

Communication Session | Richmond 2
Chairperson: Penny Chen

Industrial Wireless Sensor Network Security
Jay Werb, ISA100 Wireless Compliance Institute

Advanced Wireless Gas Detection Improves Safety and Gas Emissions Monitoring Through Asset Integrity Assessment
Greg LaFramboise, Chevron

PMCD/ChemPID Session: Upstream | Richmond 3
Chairperson: Joe Joachim

Rejuvenation of Oil Movement Automation System (OAS): PETRONAS Experience
Sharul A-Rashid, PETRONAS

Modernization of Turbo Machinery Control System of Plan-site FFC-MM
Assadullah Qureshi, Fauji Fertilizer

10:30 a.m. – 11:00 a.m.

Coffee Break and Exhibits | Grand Pavilion

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

Improving Plant Efficiency Using ISA Standards | Briar Park 3
Chairperson: Nicholas Sands

Operational Excellence and Alarm Management: ISA18 Highlights
Donald Dunn

Operator Performance and HMI Design: ISA101 Highlights
Maurice Wilkins, Yokogawa Electrical Corporation

Operation Excellence and Procedural Automation: ISA106 Highlights
Yaya Nazer

Safety Session | Briar Park 1 & 2
Chairperson: Mike Scott

Workshop: Burner Management Systems—How Invoking the Safety Lifecycle Could Save $$ on Your Project
Mike Scott, aeSolutions

Security Session | Richmond 1
Chairperson: John Cusimano

Securing the Industrial World: ISA99 Highlights
Johan Nye, Exxon Mobil

Ensuring Appropriate Cybersecurity During ICS Upgrades and Refreshes
Graham Speake, Berkana Resources Corp.

Communication Session | Richmond 2
Chairperson: Penny Chen

Wireless Gas Detection in Monitoring and Safety Applications—Design and Performance Criteria for Devices & Networks
Florian Dahm, Drager
3:00 p.m. – 3:30 p.m.

Coffee Break and Exhibits | Grand Pavilion

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

Productivity Results: Application of ISA Standards | Briar Park 3
Chairperson: Maurice Wilkins
- Combining Standards for Operator Effectiveness
  Bridget Fitzpatrick, Wood Group/Mustang
- Application of Advanced Decision Support
  Maurice Wilkins, Yokogawa Electrical Corporation
- Putting the Pieces Together—How ISA95 Has Been Used to Integrate Standards
  Dave Emerson, Yokogawa Electrical Corporation

Safety Session | Briar Park 1 & 2
Chairperson: Mike Scott
- Specifying the Instrumented Safeguard Response Time: How Fast is Fast Enough?
  Eloise Roche, SIS-Tech
- Contributions to Risk and Cost Reduction Through External In Situ Testing of Tuning Fork Technology
  Ryan Holmelin, T. Ruta, C. McIntyre, Endress + Hauser; C. Garcia, Dow Chemical

Security Session | Richmond 1
Chairperson: John Cusimano
- Eliminating Security Blind Spots in ICS Networks
  Barak Perelman, Indegy
- LOGIIC—Linking Oil and Gas in Improving Cybersecurity
  Dennis Parker, Chevron

Communication Session | Richmond 2
Chairperson: Penny Chen
- The Future of Steam Trap Monitoring
  Christian Mallison, SpiraxSarco

PMCD/ChemPID Session: DCS Migration | Richmond 3
Chairperson: Joe Joachim
- Large Project Execution—A Better Way
  Lee Swindler, MAVERICK Technologies
- Modernize and Future-Ready Systems With Standard-Based Design
  Rick Slaugenhaupt, MAVERICK Technologies
- A Look at Early Planning Process Best Practices for Plant Automation Modernization Projects
  Munchong Chow, Emerson Process Management

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**Wednesday, 9 November**

**Morning Refreshments | Grand Pavilion**

**Speakers’ Breakfast | Westchase**

**8:00 a.m. – 9:00 a.m.**

**Keynote Presentation | Grand Pavilion Foyer**

- Inspiring and Recruiting Engineers Into the 21st Century
  - Bonnie J. Dunbar

**Morning Session I: 9:00 a.m. – 10:30 a.m.**

**Safety Session | Briar Park 1 & 2**

- Chairperson: Mike Scott
- Safety Instrumented Systems Open Discussion/Q&A
- Moderator: Paul Gruhn, aeSolutions

**Security Session | Richmond 1**

- Chairperson: John Cusimano
- Achieving a Cybersecurity Architecture for the Operational Technology Systems of Oil & Gas, Power, Chemicals, and Other Industrial Environments
  - Carlos Solari, MSi
- A Cybersecurity Testbed for Continuous Process Manufacturing
  - CheeYang Tang, NIST

**Communication Session | Richmond 2**

- Chairperson: Penny Chen
- Cyber-Physical attacks against Industrial Wireless
  - Jeff Melrose, Yokogawa Corporation of Americas
- Cybersecure, Affordable Microgrid Communications Infrastructure
  - Bob Wood, IPERC

**PMCD/ChemPID Session: Operational Excellence with Human Machine Interface | Richmond 3**

- Chairperson: Nicholas Sands
- Operator Performance and Situational Awareness Visibility
  - Stephen Apple, Schneider Electric
- New Approaches to Navigating the Operating Envelope
  - Bridget Fitzpatrick, Wood Group/Mustang
- Overcoming Objections to High Performance HMI Migration
  - Bill Hollifield, PAS

**10:30 a.m. – 11:00 a.m.**

**Coffee Break and Exhibits | Grand Pavilion**

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

**Educational Session | Briar Park 3**

- Chairperson: Kelvin Erickson
- Safety Instrumented Systems for Newbies
  - Paul Gruhn, aeSolutions

**Safety Session | Briar Park 1 & 2**

- Chairperson: Mike Scott
- How Faith in a SIS Led to a $3 Billion Incident
  - Angela Summers, SIS-Tech
- Hollow Ball Valves in Process Service Revealed in Accident Investigation
  - Quentin Baker, BakerRisk

**Security Session | Richmond 1**

- Chairperson: John Cusimano
- Non-intrusive and ICS Tailored Virus and Malware Protection
  - Siv Hilde Houmb, Secure–NOK
- How to Apply ISA/IEC 62443 Standards to Protect Virtual Architectures
  - Kenneth Frische, aeSolutions

**Communication Session | Richmond 2**

- Chairperson: Penny Chen
- Radio Frequency Propagation and Impacts on ISA 100.11a Operations
  - Rick Candell, NIST
- Analysis of Industrial Spectrum Monitoring System
  - Murat Aksu, NIST

**PMCD/ChemPID Session: Operational Excellence with Alarm Management | Richmond 3**

- Chairperson: Nicholas Sands
- High Integrity HMI
  - Michael Sheidaei, Cameran, LNG
- Alarm Management Meets SIS
  - Darwin Logerot, ProSys
- Alarm Classification—Not All Alarms Are Created Equal!
  - Todd Stauffer, Exida

**12:30 p.m. – 1:30 p.m.**

**Lunch and Exhibits | Grand Pavilion**

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

**Student Session | Briar Park 3**

- Chairperson: Kevin Erickson
- Sustainable Approach for Energy Analysis (SAFE)
  - Mohan and Yuan
- A Load-Balancing Approach Using Hopfield Networks
  - Harsh and Lent

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Auction-Based Model Design for Mobile Cloud Computing
Shah and Lent

Intelligent Server Selection Using Learning Automation
Velusamy and Lent

Performance Monitoring of Virtual Machines
Mohammed and Yuan

Blood Clot Detection System Based on Pulse Transmit Time Analysis
Flores, Li, Palomo, Perez, Reves, Rasas

Safety Session | Briar Park 1 & 2
Chairperson: Mike Scott
Workshop: What Does the Future Look Like for Performance-based Fire & Gas Engineering?
Kevin Mitchell, Kenexis

Security Session | Richmond 1
Chairperson: John Cusimano
Whitelisting Intrusion Detection Systems for System-level Cyber-attacks in Industrial Control Systems
Tsunato Nakai, Mitsubishi Electric Corporation

Communication Session | Richmond 2
Chairperson: Penny Chen
Panel Discussion: What Are the Tangible Benefits of IIoT? What Related Communication Needs to Be Done in Order to Realize Those Benefits? What New Sensing Technologies is IIoT Going to Enable?
Herman Storey, Shell; Sterling Rooke, XB; Dave Lafferty, BP; George Studor, NASA

PMCD/ChemPID Session: Control Strategy Application | Richmond 3
Chairperson: Nicholas Sands
Innovations in Process Modeling Facilitate Improved Control and Plant-wide Optimization
Brett Beauregard, Control Station Inc.

Rocky Relationship Between Safety and Security
Luis Duran, ABB

Communication Session | Richmond 2
Chairperson: Penny Chen
George Stutor, NASA

Wide Bandgap Wireless Telemetry for High Temperature Safety Applications
John Fraley, WolFSpeed

PMCD/ChemPID Session: Control Primer: Control Strategies | Richmond 3
Chairperson: Nicholas Sands
Control Strategies to Improve Process Capacity and Efficiency
Greg McMillan, MYNAH Technologies

5:00 p.m.

YAPFest—A Networking Opportunity for Students and Young Automation Professionals | Grand Pavilion Foyer

Thursday, 10 November
7:30 a.m. – 8:00 a.m.
Morning Refreshments | Grand Pavilion Foyer
Speakers’ Breakfast | Westchase

8:00 a.m. – 9:00 a.m.
Keynote Presentation | Grand Pavilion Foyer
Safe and Secure? The State of Industrial Cybersecurity
Steve Mustard

Morning Session I: 9:00 a.m. – 10:30 a.m.

Safety Session | Briar Park 1 & 2
Chairperson: Mike Scott
SIS Identification and Design Guideline Development at Williams
John Mark Kennedy, Williams

3:00 p.m. – 3:30 p.m.

Coffee Break and Exhibits | Grand Pavilion

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

Safety Session | Briar Park 1 & 2
Chairperson: Mike Scott
Workshop: Practical Confidence Methods for Safety Instrumented System Performance Assessment
Stephen Thomas, Chevron

Sponsored by

Maverick Technologies
A Rockwell Automation Company
12:30 p.m. – 1:30 p.m.

Lunch and Exhibits | Grand Pavilion

1:30 p.m. – 2:00 p.m.

Safety Session | Briar Park 1 & 2
Chairperson: Mike Scott

- How Important is Realistic Failure Rates for Safety Instrumented Functions?
  - L. Steward, Exida
- Advanced Diagnostic Coverage to Extend Proof Test Intervals
  - T. Wyatt, E. Mathiason, Afton Coleman, Emerson Process Management

2:00 p.m. – 3:00 p.m.

ERP Session | Richmond 2
Chairperson: Joe Joachim

- Top Trends in Modern ERP
  - Walter Goodfield, rkl eSolutions
- Faster Time to Value with Cloud ERP
  - Walter Goodfield, rkl eSolutions

3:00 p.m. – 5:00 p.m.

PMCD/ChemPID Session: Control Performance | Richmond 3
Chairperson: Brad Carlberg

- Finding and Evaluating Valve Condition: A Part of Any Safe and Efficient Operation
  - Steven T. Obermann, Metso
- Enhanced Cascade Level-Flow Control
  - Luis Chacon

Closing Remarks | Conference Ends
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6–9 November 2017
Houston Marriott Westchase
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62nd Analysis Division Symposium (AD)
23–27 April 2017
Pasadena, CA

2017 Food and Pharmaceutical Industries Symposium (FPID)
23–24 May 2017
Boston, MA

17th Leak Detection and Repair-Fugitive Emissions Symposium (LDAR)
20–22 June 2017 (Tentative)
Galveston, TX

60th Power Industry Division Symposium (POWID)
26–29 June 2017 (Tentative)
Cleveland, OH

2017 Water/Wastewater and Automatic Controls Symposium (WWAC)
8–10 August 2017
Orlando, FL

2017 Process Control and Safety Symposium (PCS)
6–9 November 2017
Houston, TX

63rd International Instrumentation Symposium (IIS)
Co-located with the 2017 PCS Symposium
6–9 November 2017
Houston, TX

Find developing program details at: www.isa.org/events
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