



February 2018 Section Meeting

Welcome Aboard

Say Hello to our New Sponsor



**BECOME A
SPONSOR**

Section Sponsor

\$150 Annually

Benefits:

- Logo, company information, and your company's website link displayed on the ISA New Orleans Section website.
- Logo on signage present at all section meetings and events.
- Priority opportunity to present technical topics at ISA New Orleans Section meetings and events.
- Priority opportunity to sponsor section meetings and events.
- Opportunity to be a Table-Top exhibitor at sponsored section meetings and events.
- Your company listed in our Local Directory of Automation Suppliers.

Thank You to All of Our Sponsors!

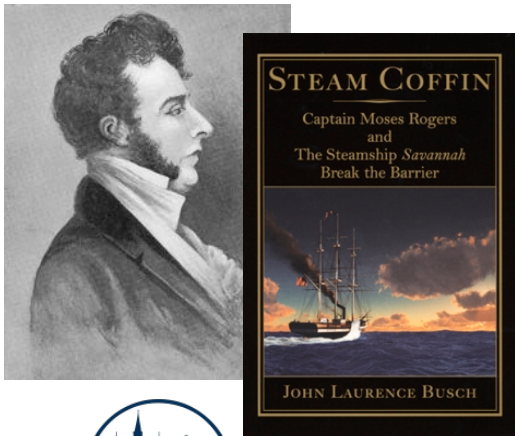


M S Benbow and Associates
A Professional Engineering Corporation
www.msbenbow.com



March 13th

Building the First
"Steamship" in History



THE UNIVERSITY of
NEW ORLEANS

Future Dates:

- April 10th
- May 8th
- June 5th
- July 10th
- August 7th

Topics/Speakers in Development:

- Ethics with LAPELS – *April or May*
- Nick Sands – *June*
- Paul Gruhn – *tbd*
- Champion Technologies – *tbd*
- Petrotech – *tbd*
- Process Solutions - *tbd*

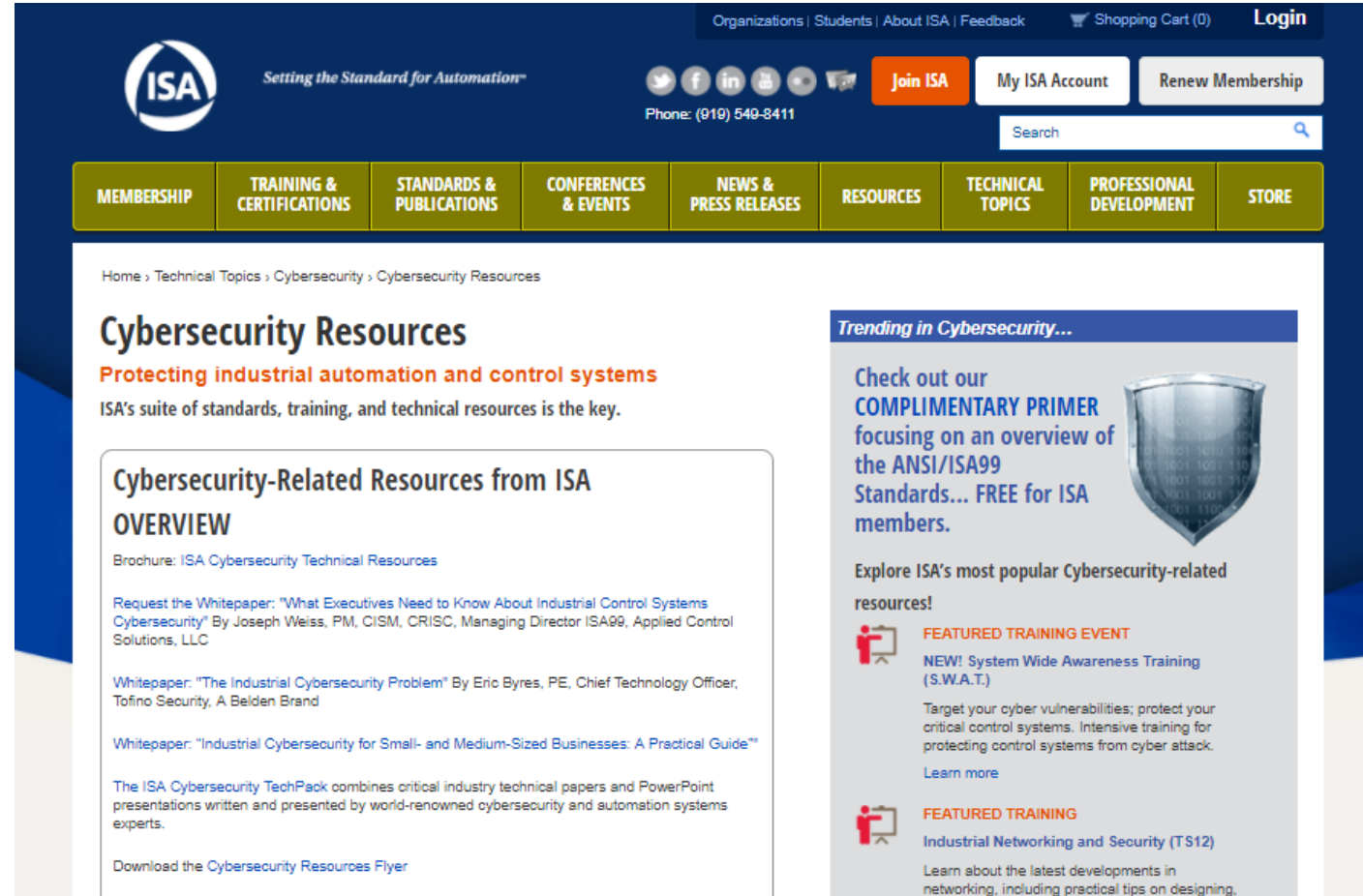
- **District 7 Leadership Meeting**
 - April 20-21
 - Galveston, TX
 - Topics on Agenda
 - How to bring new leadership in the local sections
 - Sponsorship best practices – to be presented by Dean Bickerton
 - Using technology such as web-based meetings

ISA is the developer and applications-focused thought leader behind the world's only consensus-based industrial cybersecurity standard.

ISA's approach to the cybersecurity challenge is holistic, bridging the gap between operations and information technology; and between process safety and cybersecurity.



- ISA Cybersecurity Resources
 - Standards
 - Training
 - Certification Programs
 - Whitepapers
 - Conformity Assessment



The screenshot shows the ISA Cybersecurity Resources page. The header includes the ISA logo, the tagline "Setting the Standard for Automation", and navigation links for Organizations, Students, About ISA, Feedback, Shopping Cart (0), and Login. A search bar is also present. Below the header is a navigation menu with tabs for MEMBERSHIP, TRAINING & CERTIFICATIONS, STANDARDS & PUBLICATIONS, CONFERENCES & EVENTS, NEWS & PRESS RELEASES, RESOURCES, TECHNICAL TOPICS, PROFESSIONAL DEVELOPMENT, and STORE. The main content area is titled "Cybersecurity Resources" and includes the subtitle "Protecting industrial automation and control systems". It states that ISA's suite of standards, training, and technical resources is the key. A section titled "Cybersecurity-Related Resources from ISA OVERVIEW" lists several resources: a brochure, a whitepaper by Joseph Weiss, a whitepaper by Eric Byres, and a whitepaper for small and medium-sized businesses. There is also a link to download the Cybersecurity Resources Flyer. On the right side, there is a sidebar titled "Trending in Cybersecurity..." featuring a complimentary primer for ISA members and two featured training events: "NEW! System Wide Awareness Training (S.W.A.T.)" and "Industrial Networking and Security (TS12)".

isa.org – Technical Topics – Cybersecurity

Executive Order 13636

Signed February 12, 2013

Executive Order 13636 outlines responsibilities for Federal Departments and Agencies to aid in Improving **Critical Infrastructure** Cybersecurity.

In summary, it assigns these responsibilities and establishes the policy that, "It is the policy of the United States to enhance the security and resilience of the Nation's **critical infrastructure** and to maintain a cyber environment that encourages efficiency, innovation, and economic prosperity while promoting safety, security, business confidentiality, privacy, and civil liberties."

<https://www.whitehouse.gov/the-press-office/2013/02/12/presidential-policy-directive-critical-infrastructure-security-and-resil>



16 Critical Infrastructure Sectors



Chemical



Commercial
Facilities



Communication



Critical
Manufacturing



Dams



Defense
Industrial Base



Emergency
Services



Energy



Financial
Services



Food and
Agriculture



Government
Facilities



Healthcare and
Public Health



Information
Technology



Nuclear Reactors,
Materials and Waste



Transportation



Water and
Wastewater

National Institute for Standards and Technology

Founded in 1901, NIST is a non-regulatory federal agency within the **U.S. Department of Commerce**.

NIST's mission is to promote U.S. innovation and industrial competitiveness by advancing measurement science, standards, and technology in ways that enhance economic security and improve our quality of life.

NIST Cybersecurity Mission:

To implement practical cybersecurity and privacy through outreach and effective application of standards and best practices necessary for the U.S. to adopt cybersecurity capabilities.



<https://www.nist.gov/>

What is the NIST Framework?

- **NIST Framework**

- Enables organizations to apply the principles and best practices of **risk management** to improving the security and resilience of critical infrastructure.
- Provides **organization, structure and consistency** to cybersecurity by assembling standards, guidelines, and practices that are working effectively in industry today.
- Consists of three parts
 - Framework Core
 - Framework Implementation Tiers
 - Framework Profile

Functions	Categories	Subcategories	Informative References
IDENTIFY			
PROTECT			
DETECT			
RESPOND			
RECOVER			

Figure 1: Framework Core Structure

Framework

Framework Core

Framework
Implementation Tiers

Framework Profile

Identify

Understanding to manage cybersecurity risk to systems, assets, data, and capabilities

Protect

Safeguards to ensure delivery of critical infrastructure services

Detect

Identify the occurrence of a cybersecurity event

Respond

Action regarding a detected cybersecurity event

Recover

- Maintain plans for resilience
- Restore any capabilities or services

Framework

Framework Core

Framework
Implementation Tiers

Framework Profile

Functions	Categories	Subcategories	Informative Reference
IDENTIFY ID			
PROTECT PR			
DETECT DE			
RESPOND RS			
RECOVER RC			

Framework

IDENTIFY

PROTECT

DETECT

RESPOND

RECOVER

Function	Category Identifier	Category
IDENTIFY (ID)	ID.AM	Asset Management
	ID.BE	Business Environment
	ID.GV	Governance
	ID.RA	Risk Assessment
	ID.RM	Risk Management Strategy

Function	Category	Subcategory	Informative References
IDENTIFY (ID)	Asset Management (ID.AM): The data, personnel, devices, systems, and facilities that enable the organization to achieve business purposes are identified and managed consistent with their relative importance to business objectives and the organization's risk strategy.	ID.AM-1: Physical devices and systems within the organization are inventoried	<ul style="list-style-type: none"> CCS CSC 1 COBIT 5 BAI09.01, BAI09.02 ISA 62443-2-1:2009 4.2.3.4 ISA 62443-3-3:2013 SR 7.8 ISO/IEC 27001:2013 A.8.1.1, A.8.1.2 NIST SP 800-53 Rev. 4 CM-8
		ID.AM-2: Software platforms and applications within the organization are inventoried	<ul style="list-style-type: none"> CCS CSC 2 COBIT 5 BAI09.01, BAI09.02, BAI09.05 ISA 62443-2-1:2009 4.2.3.4 ISA 62443-3-3:2013 SR 7.8 ISO/IEC 27001:2013 A.8.1.1, A.8.1.2 NIST SP 800-53 Rev. 4 CM-8
		ID.AM-3: Organizational communication and data flows are mapped	<ul style="list-style-type: none"> CCS CSC 1 COBIT 5 DSS05.02 ISA 62443-2-1:2009 4.2.3.4 ISO/IEC 27001:2013 A.13.2.1 NIST SP 800-53 Rev. 4 AC-4, CA-3, CA-9, PL-8
			<ul style="list-style-type: none"> COBIT 5 APO02.02

Framework

IDENTIFY

PROTECT

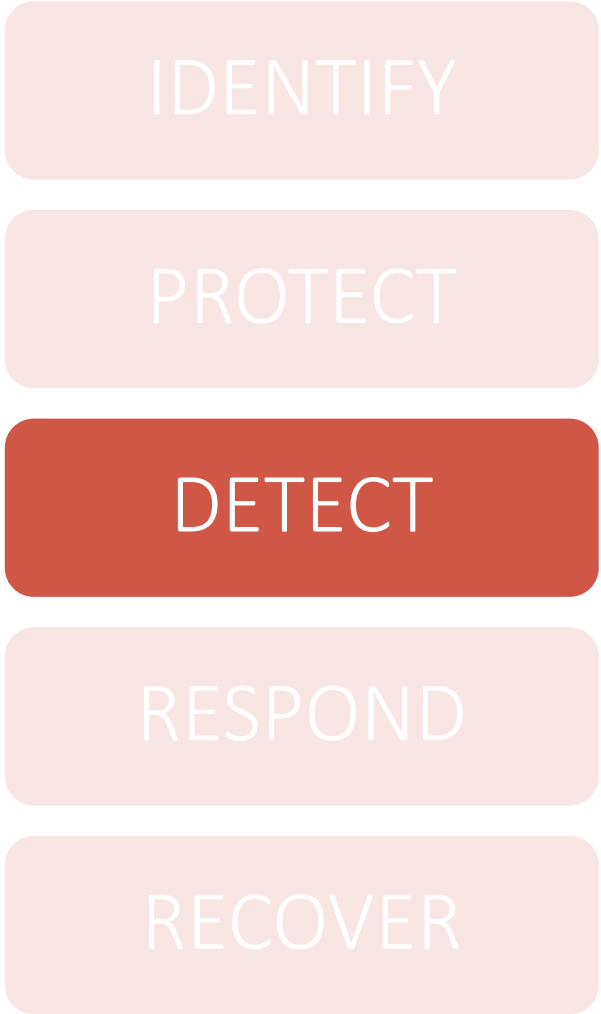
DETECT

RESPOND

RECOVER

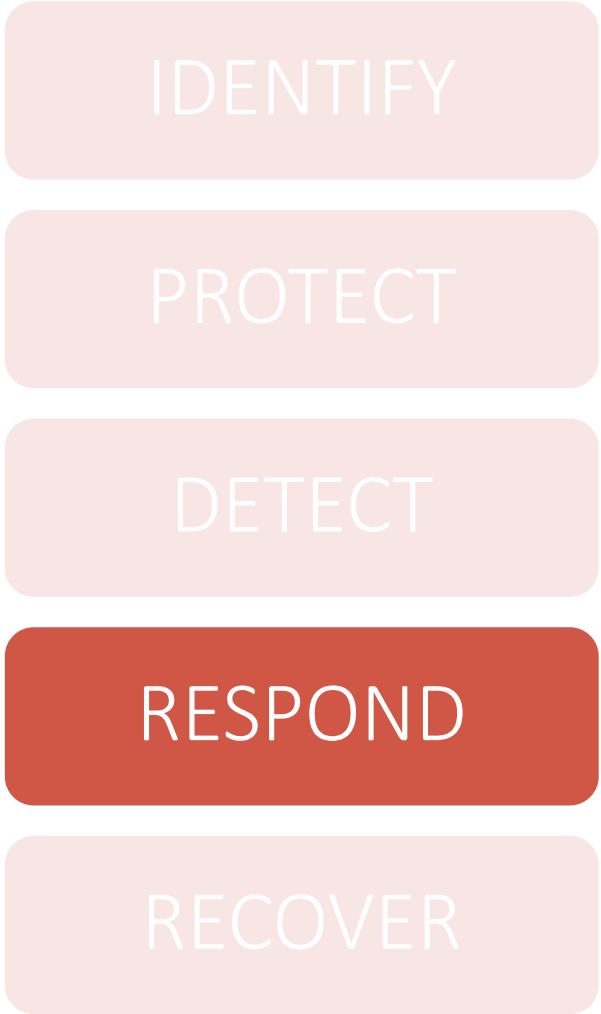
Function	Category Identifier	Category
PROTECT (PR)	PR.AC	Access Control
	PR.AT	Awareness and Training
	PR.DS	Data Security
	PR.IP	Information Protection Processes and Procedures
	PR.MA	Maintenance
	PR.PT	Protective Technology

Framework



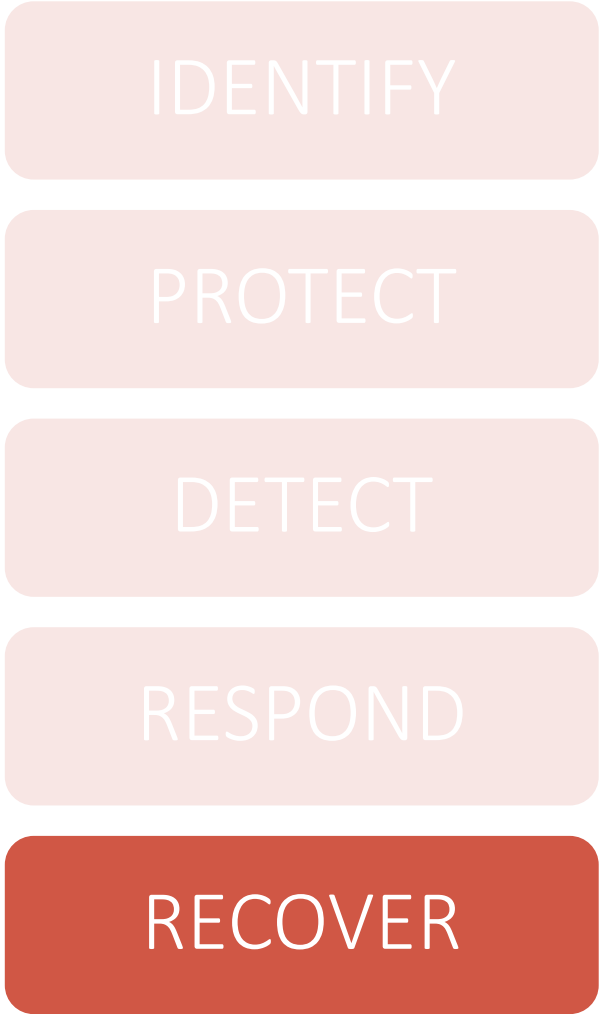
Function	Category Identifier	Category
DETECT (DE)	DE.AE	Anomalies and Events
	DE.CM	Security Continuous Monitoring
	DE.DP	Detection Processes

Framework



Function	Category Identifier	Category
RESPOND (RS)	RS.RP	Response Planning
	RS.CO	Communications
	RS.AN	Analysis
	RS.MI	Mitigation
	RS.IM	Improvements

Framework



Function	Category Identifier	Category
RECOVER (RC)	RC.RP	Recovery Planning
	RC.IM	Improvements
	RC.CO	Communications

Framework

Framework Core

Framework
Implementation Tiers

Framework Profile

Cybersecurity Risks

Manage Risks

Partial

Risk
Informed

Repeatable

Adaptive

Consideration

- Risk management practices, threat environment, legal & regulatory req., objectives & constraints

	Risk Management Process	Integrated Risk Management Program	External Participation
Tier 1 Partial	<ul style="list-style-type: none"> Not formalized Reactive 	<ul style="list-style-type: none"> Limited awareness Irregular risk management Private information 	No external collaboration
Tier 2 Risk Informed	<ul style="list-style-type: none"> Approved practices Not widely use as policy 	<ul style="list-style-type: none"> More awareness Risk-informed, processes & procedures <ul style="list-style-type: none"> Adequate resources Internal sharing 	Not formalized to interact & share information
Tier 3 Repeatable	<ul style="list-style-type: none"> Approved as Policy Update regularly 	<ul style="list-style-type: none"> Organization approach Risk-informed, processes & procedures defined & implemented as intended, and reviewed <ul style="list-style-type: none"> Knowledge & skills 	<ul style="list-style-type: none"> Collaborate Receive information
Tier 4 Adaptive	Continuous improvement	<ul style="list-style-type: none"> Risk-informed, processes & procedures for potential events <ul style="list-style-type: none"> Continuous awareness <ul style="list-style-type: none"> Actively 	Actively shares information

Framework

Framework Core

Framework
Implementation Tiers

Framework Profile

Alignment of Framework Core and business requirements, risk tolerance & resources

Establish roadmap to reduce risk aligned with organizational and sector goals

Describe current and desired state of specific events

Action plan to address gaps

Create or improve a program



Our Guest Speakers



Gaby Koren
Vice President, Americas



Matthew Petrauskas
Regional Account Director





New Orleans
Section