



International TÜV Rheinland Symposium

Functional Safety and Cybersecurity in Industrial Automation October 16 - 17, 2023 | Boston, MA, USA

Automation topics and trends are characterized by permanent change and the enormous development of intelligent, digital networking of machines, plants and products in all industrial sectors. This increasingly presents companies with safety-related technological challenges.

As a result, the topics of **Functional Safety** and **Cybersecurity** have developed into the major topics in industrial automation in the past years.

This TÜV Rheinland Symposium will focus on these topics and developments in the various industrial application areas.

Experts and specialists from industry and science offer practice-oriented lectures as well as opportunities for interactive exchange of experience.

Take advantage of the opportunity to get into direct exchange and talks again, to experience innovations on site and to win new customers or business partners.

TOPICS

- Functional Safety and Cybersecurity
- Safety of Machinery
- AI Artificial Intelligence
- Management Systems

IN COOPERATION WITH:

aeShield , USA - EFSTAS , United Kingdom - I S A , USA - Ikerlan / ORBIK , Spain / USA - LAPWING GmbH , USA/Germany - NVIDIA , USA - Petroleum Development OMAN , Oman - Rockwell Automation , USA - S&C Electric Company , USA - Schneider Electric , USA - SIS-Tech , USA - TÜV Rheinland of North America , USA - TÜV Rheinland UK , United Kingdom - TVC , Belgium/USA - Willowglen Systems , Canada



Organization

Target Group

- Integrators of safety relevant installations.
- Manufacturers and designers of safety related components and systems approval authorities

Conference Language

English

Proceedings

- The proceedings/presentations will be published on the TÜV Rheinland website for Functional Safety.
- Participants will be informed by email accordingly.

Venue

Boston Marriott Copley Place
110 Huntington Ave
Boston, MA 02116

Evening Entertainment

The evening of October 16, we will host a celebratory event with City Cruises Boston. Registrants can enjoy dinner and drinks, along with networking with other attendees.

Fee

\$950.00 | Contact Ted Hashke
Thaschke@us.tuv.com for group registrations.

Registration

- The fee includes attendance at the Symposium, morning and afternoon refreshments, lunch, and evening entertainment with dinner on October 16th. The fee does not include cost of accomodation.
- After starting your registration, you will be directed to a payment portal in order to confirm your participation.
- Upon registration you will receive an email confirmation with further details.

Hotel Reservation

The event will be held at the Boston Marriott Copley Place at 110 Huntington Ave, Boston, MA 02116. TÜV Rheinland has secured a room block with a negotiated rate for the event. Upon registration, you will receive the link for booking the hotel. The deadline for booking your room using this code is September 15, 2023.

Program – Day 1

Registration 8:30 am

Start 09:00 am

Coffee breaks and lunch considered

Welcome

[Sven Nowak, Matthias Haynl](#)

TUV Rheinland of North America | USA

[Manuel Jesus Diez San Jose](#)

TÜV Rheinland Industrie Service | Germany

Unlocking the Power of AI to Enhance Industrial Safety

[Riccardo Mariani](#)

NVIDIA | USA

Guidance on adopting IEC 61508 as an indicator for product quality of nuclear industry components

[Alan Campbell](#)

NEI - Nuclear Energy Institute | USA

Implementing a Diagnostics, Alarming and Testing Strategy at a Nuclear Particle Accelerator Facility

[Paul Metcalf](#)

Jefferson Lab (U.S. Department of Energy) | USA

New machinery regulation: What are the changes for machinery safety when exporting to Europe

[Michael Kieviet](#)

LAPWING GmbH | Germany

Risk Assessments in Robotics

[Colin Easton](#)

EFSTAS | United Kingdom

Lessons Learned from a Large Scale Assurance Case for the CERN LHC Machine Protection System

[Simon Diemert](#)

Critical Systems Lab Inc. | Canada

Machinery Safety Field Application: The challenge of harmonizing safety standards in global companies

[Devin Murray](#)

Schmersal | USA

Machine Learning (ML) for Safety-Critical Systems

[Jon Perez-Cerrolaza](#)

IKERLAN | Spain

Update on global adoption of ISA/IEC 62443 for securing OT cybersecurity

[Andre Ristaino](#)

ISA - International Society of Automation | USA

Importance of Cybersecurity Standards Certifications

[Ali Behbahani](#)

Rockwell Automation | USA

[Sven Nowak](#)

TUV Rheinland of North America | USA

How to build a low cost, yet effective ICS cybersecurity program

[Harsha Banavara](#)

S&C Electric Company | USA

The Importance of Operations & Maintenance PSM Training, with Specific Emphasis on Cyber Security

[Chet S. Barton](#)

Hargrove Controls & Automation | USA

[More Speeches to Come...](#)



Program – Day 2

Start 09:00 am

Digital transformation of FS in the Process Industry

[Mike Scott](#)

AeShield | USA

No Safety without Security - No Security without Safety

[Tino Vande Capelle, Denrich Sananda](#)

TVC Functional Safety Services FZ-LLC | Belgium, Canada

Enhancing Functional Safety Management Post a Process Safety Incident. A Case Study.

[Abdul Aziz Abri](#)

Petroleum Development Oman | Oman

Cybersecurity Risk Assessment - Lessons Learned

[Farshad Hendi, Michael Twumasi](#)

Schneider Electric | USA

Establishing Setpoints for Stacked Instrumented Safeguards

[Eloise Roche](#)

SIS-Tech | USA

How Cybersecurity and Safety Functions Fit in the Future of Industrial Automation and Control Systems

[Ian Verhappen](#)

Willowglen Systems | Canada

On Vulnerability handling and management in Electronic systems when meeting IEC62443: novel tools and techniques

[David Gonzalez, Cristobal Arellano](#)

IKERLAN | Spain

[Salvador Trujillo](#)

ORBIK Cybersecurity | Spain

Markov Model showing impact of Security and Safety layers in light of the new IEC 61784-3

[Steve Seidlitz](#)

Rockwell Automation | USA

IEC 62443-4-1 From the Trenches

[John McDonald](#)

TUV Rheinland of North America | USA

Discussion End approx. 04:00 pm