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ABB Customer World

GEORGE R. BROWN CONVENTION CENTER
HOUSTON, TEXAS | MARCH 4 -7, 2019



Reshaping the future of the energy industry at ABB Customer World

The chemicals sector is on the cusp of a new era. A wave of business and digital technologies looks set to reshape it, increasing agility and effectiveness for chemicals companies. The industry's complexity does not make this change easy but does open up the potential for maximum benefits through digitalization.

The curriculum and networking at ABB Customer World, give insights into our leading digital solutions that have been designed to meet the real world needs of the industry. The sessions highlight what the industry's leading players are doing to minimize cost, reduce schedule, and ensure safe operations.

Registration is free!

ABB Customer World brings together professionals from utilities, industries and infrastructure for a premier educational and collaboration event in North America.

From past lessons learned to the future revealed, this event saves you time, money and manpower. Ask your questions, deliver your feedback to developers, take advantage of hands-on training by experts, and learn from ABB's customers and project managers how to maximize value from your current assets.

Event registration is now open — and there is no conference fee to attend. For information and to register, visit us at www.abb.com/acw.

Join your chemical and refining peers as we explore cutting-edge technologies that address your most pressing challenges.

Chemical & Refining suggested program

MONDAY, MARCH 4

TIME	PROGRAM	ROOM
10:00AM	Technology & Solutions center opens	TSC
11:45AM-12:45PM	Buffet Lunch	Hall E, Level 1
1:00-2:00PM	Enabling more informed business decisions through digitally integrated operations in chemicals	340A
	<p>A typical chemical plant generates large amounts of data throughout its whole life cycle. Big data holds significant potential for optimizing and improving processes. Big data technologies enable new possibilities to analyze historical data generated by process plants. Big data is normally characterized by four Vs: volume, variety, veracity and velocity. Not only do we want to find and interpret patterns in the data and use them for predictive purposes, but we also need to extract meaningful relationships that can be used to improve and optimize a process. Join this session to learn more.</p>	
2:30-3:30PM	Chemical, O &G industry standards: A comparison of API 547 first and second editions	360B
	<p>API 547 first edition was issued in January 2005. The second edition became effective in November 2017. In this session, we will highlight the changes that have been made to the standard in this update. We will discuss what motor range and applications this standard applies to. We will also discuss where this standard fits within the family of API and IEEE motor standards that are routinely used by the chemical, oil and gas industries.</p>	
4:00-5:00PM	The rocky relationship between safety and security	360A
	<p>Although many users assume their safety systems to be isolated, many have connected safety systems to a basic process control system (BPCS) since mid-1980s. These efforts were based on proprietary protocols until the adoption of open network protocols, and Windows increased connectivity to business systems but exposed safety systems to cyber threats. This session will address safety and security considerations around design and implementation of safety systems and the methods used to ensure that the integration between the safety system and the BPCS do not compromise functional independence.</p>	
5:00-6:30PM	Reception	TSC
6:30PM	Technology & Solutions Center closes	TSC

TUESDAY, MARCH 5

TIME	PROGRAM	ROOM
8:30-10:00AM	Keynote Presentation	Hall B3, Level 3
	Ulrich Spiesshofer, CEO, ABB Antonio Neri, CEO, HPE	
10:00AM	Technology & Solution Center opens	TSC
10:30-11:30AM	Developing a combined life cycle management approach for both functional safety and security for SIS	360A
	<p>IEC 61511/ISA-84 Ed 2 2016 now calls for a mandatory security risk assessment as part of the requirements specification of a safety instrumented system (SIS). Therefore, a security life cycle management approach is required to transpose such requirements into the design of a SIS. This session will present one approach to developing a 'combined lifecycle management requirement' in bringing together the similar processes and competencies to achieve a combined IEC 61511/ISA-84 and IEC 62443 set of procedures, processes and competencies to achieve compliance for both safety and security.</p>	
11:45AM-1:15PM	The Future of Energy - Luncheon panel discussion	Grand Ballroom, Level 3

Peter Terwiesh, President Industrial Automation Division, ABB
Michael Wiebe, COO, Kronos
Moderator: Guide Jouret, Chief Digital Officer, ABB

OR buffet lunch

Hall E, Level 1

1:30-2:30PM

System 800xA Select I/O and xStream Engineering: A case study in project efficiency 360c

Take the drama out of your next automation project. System 800xA's Select I/O is an Ethernet network based, single channel granular, late binding I/O system whose flexibility helps companies re-think the way their automation projects are executed. By providing a flexible I/O solution, your project can be more resilient to late changes, tasks can be done in parallel and project schedules can be optimized.

3:00-4:00PM

The Open Process Automation™ Forum: How the present will impact the future 360C

Innovation is not limited to a handful of Silicon Valley companies. The game has changed to innovate or die; transformation is an urgent call. This shift is partially because digital technologies enable new and unexpected competitors, but also because of the changing dynamics of consumers and suppliers. This discussion will cover the Open Process Automation Forum, how it will help with this transformation, the status of the initiative and the products available today. Join us to discover the new technological and business ecosystem emerging from the Forum and to discuss the expected changes.

4:30-5:30PM

The journey towards autonomy in industrial operations Theater 4, TSC

Businesses in the industrial space have undergone a paradigm shift to move from isolated operations to collaborative and ultimately more autonomous operations. By 2025 we will witness humans working with systems in a collaborative way, leveraging artificial intelligence (AI) seamlessly. Disruptive technologies like AI, machine learning and augmented reality (AR) have all changed the way we do everyday tasks and in some cases made them autonomous. In this session, we will demonstrate how hands-free collaboration can help repair remote issues or predict plant incidents before they ever happen.

6:30PM

Technology and Solution Center closes

TSC

6:30-9:30PM

Customer Appreciation Event, Convention Center

Hall B3, Level 3

WEDNESDAY, MARCH 6

TIME	PROGRAM	ROOM
9:00-10:15AM	Future of Mobility - Keynote presentation	Hall B3, Level 3
	Tarak Mehta, President Electrification Products, ABB Tony Seba, Futurist and Thought Leader Moderator, Guido Jouret, Chief Digital Officer, ABB	
10:00AM	Technology & Solutions Center opens	TSC
10:30-11:30AM	Insights into the chemicals industry: Investments, trends and predictions	340A
	For many years, the global chemicals industry has been fighting declining margins, commoditization, rapidly expanding competition in developing countries and customers demanding more at lower prices. Chemical companies are beginning to rethink their growth strategies and moving away from cost-cutting initiatives towards more nimble, coherent and aggressive business models. Join this session to examine this shift in the chemicals landscape with industry experts.	
11:45AM-1:15PM	The Future of Energy - Luncheon panel discussion	Grand Ballroom, Level 3
	Adding non-linear loads, such as variable frequency drives (VFDs) or data centers, to electrical networks can create harmonics. IEEE 519-2014 provides updated harmonic limit requirements, and where and how they should be measured. This session covers the various methods that can be used to mitigate harmonics and includes various examples, with calculations and measurements showing how each method effects capex, opex and the risk of downtime.	
	or buffet lunch	Hall E, Level 1
1:30-2:30PM	Modular enabled automation solutions for the process industry	Theater 4, TSC

Modular automation is the cornerstone of future process plants and crucial in the chemical and pharmaceutical industries, enabling reduced time to market, increased automation efficiency and higher flexibility. Modular automation is the future for flexible process plant production and a key element for the industrial internet of things (IIoT) and Industry 4.0. This technology helps process industries that face requirements such as more customized products, shorter delivery times and smaller batch series. Join this session to learn more

3:00-4:00PM

Energy optimization for refineries: Case studies and technology review

340A

A reliable, efficient and dependable energy supply is vital for the smooth functioning of any refinery for it to overcome ever increasing challenges to reduce energy costs and CO2 emissions. Managing and controlling this supply is thus as important as managing and controlling any other significant process parameter. Join this session to learn hear energy optimization case studies for refineries, review technologies that enable lower installation and operational costs, and see how enhanced asset management capabilities improve overall plant performance.

4:30-5:30PM

Case study: Effective rotating machine maintenance through failure detection and damage prediction

340 A

Over the last few years, ABB and BASF have work together on a co-creative research project with a focus on effective execution of inspection and maintenance of rotating assets in industrial plants. This collaboration has resulted in algorithms for detection of failure modes, models to predict damage that leads to potential faults, and analytics based on sensor signals and data from the maintenance management system to manage fleets of standard rotating equipment. This session will give an overview of the project and the results, as well as how it can be applied to provide value.

THURSDAY, MARCH 7

TIME	PROGRAM	ROOM
8:30-9:30AM	Headliner Keynote	Hall B3, Level 3
10:00AM	Technology & Solution Center opens	TSC
10:00-11:00AM	Detect and correct anomalies early in your batch processes	340A
	Repeatable quality is essential to lower costs and maximize profitability for process operations. Petrochemical, chemical and pharmaceutical batch management systems are needed to ensure that consistent quality is maintained throughout batch processes. Join this session to learn how the digitization of batch processing can help detect and resolve plant abnormalities before they ever occur.	
11:30AM-12:30PM	Reduce meantime to service resolution through focused application of augmented reality technologies	340A
	In many process and manufacturing industries, producers “fly blind” if critical automation technologies do not operate at maximum availability. Meeting production requirements with high quality assurance is at risk if automation experiences downtime or issues that impede production visibility. Commercially available augmented reality wireless “wearable” computer headsets are imparted with ABB maintenance strategies, documentation, guidance, access to expertise and other best practices to improve effectiveness of field service technicians, thus improving asset and production availability.	
12:30-1:30PM	Buffet Lunch	Hall E, Level 1
1:45-2:45PM	Level measurement solutions for the chemicals industry	340A
	This session focuses on the selection of the right product for applications in the chemicals industry. The wide ABB level measurement portfolio includes magnetic level gauges for safe and reliable level measurement of toxic and corrosive chemicals, guided-wave radars for harsh conditions and laser level measurement for non-contact applications. Recent product introductions now provide ABB with an innovative and state of the art portfolio of industrial level measurement products.	
3:00PM	Technology & Solution Center closes	TSC

General information



Event registration

Register for APW, now ABB Customer World, and event hotels by visiting the event website at www.abb.com/acw



Event location

All educational training, the Technology & Solution Center and meals will be held at the George R. Brown Convention Center (GRBCC), levels 1 and 3.

The street address is 1001 Avenida De Las Americas, Houston, Texas 77010.



Hotel accommodations

Information about where to stay and how to book your hotel reservations is available at www.abb.com/acw. The special event rates will be offered for days of the event, subject to availability. You must be registered for ABB Customer World, in order to reserve rooms under the event rate; please do not contact the hotels directly.

Note: Hotel reservations are not automatically made when you register for the event. Your event reservation confirmation will include a link to reserve your hotel room, and you can then reserve your event housing or you can reserve at the same time you are registering to attend.

All event hotels offer easy access to the GRBCC and complimentary wireless internet access in guest rooms as part of the event rate.




Need more information?


Event information is available on the event website or by calling our 24-hour help line: 800-435-7365. Press option zero (0) and ask for ABB Customer World 2019 support.




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