

WELCOME TO KINGSPORT  
CONFERENCE PROGRAM

# 10<sup>TH</sup> eChemExpo

Solutions Marketplace  
AND  
Technology Innovation  
CONFERENCE



APRIL 5TH, 2018

MEADOWVIEW CONVENTION CENTER





## Welcome to the eChemExpo

Two hundred exhibitors, 60 seminars and six groundbreaking panel discussions – all in a single day. eChemExpo has earned its reputation as the No. 1 multidisciplinary applied innovation event for the process industries. We thank you for attending and hope that today provides insight that will help you innovate now and in the coming years.

**REGISTRATION OPENS:** 7:15am

**CONFERENCE HOURS:** 8:15am - 6:00pm

**EXHIBIT HALL HOURS:** 9:45am - 4:45pm

**DRAWING FOR PRIZES:** 4:30pm

## Applied Innovation

eChemExpo has been hard at work to produce the second volume of Applied Innovation. It's a digital publication highlighting the wealth of information that exhibitors and speakers planned to share at the show. It also provides introductions to some of the innovators you'll meet today. We invite you to read and share Applied Innovation articles.

**VISIT:** <http://appliedinnovation.echemexpo.com>

## PDH Credit

- Earn up to 7.0 hours of PDH credit from 10 am to 5 pm
- Select from 60 seminars and 4 panelist presentations
- Keynote and Wrap-Up Panel are not included.

## Founding Note

eChem Expo was developed by Knox Research & Publishing with Eastman Chemical Company in the year 2000 and is now part of EcoChem Strategies.

# Conference Highlights

---

## **KEYNOTE PANEL | 8:15am - 9:30am | Meadowview Ballroom**

**Accelerate Innovation, Improve Agility and Increase Productivity for Sustainable Business Growth**

Jan Shumate, Director, Services & Solutions, Worldwide Engineering and Construction, Eastman Chemical Company

Plus: Ten Gold Sponsor Innovation Leaders will provide their perspectives on the state of the industry, what they are bringing to eChem Expo and what the future may hold. Recognition of Silver Sponsor innovation leaders.

---

## **ENHANCED REALITY PANEL | 11:00pm - 11:55pm | Meadowview Ballroom C/D (Seating is Limited)**

This rapid-fire session will combine the drama of a Shark-Tank reality show with the excitement of enhanced reality technology. The exchange among seven technology providers promises to reveal how the emerging tech is transforming the future of work by increasing productivity and enabling fast-track response to real manufacturing problems.

**Panelists:** Aegex Technologies, C3 IoT / AWS, DAQRI, Index AR, OSIsoft, Parsable, RealWear

---

## **FEATURED PANEL | Enhancing Decision Making with Tech | 12:35pm - 1:25pm | Meadowview Ballroom A/B**

Join this session to learn how the digital revolution is improving the decision-making process in plants. Speakers will examine the prospects for quicker, better decisions and explain how attendees can prepare themselves to succeed in the next two-, four- and six-year periods.

**AVEVA** – How Industry 4.0 is Improving Decision-Making in the Chemical and Process Industries

**Siemens** – Siemens' role in Digitalization

**OSIsoft** – Using an OT "Chart of Accounts" with Layers of Analytics To Enhance Decision-Making Quality and Speed

**Eastman Chemical Company** – The Future of Digital Manufacturing at Eastman Chemical Company

---

## **DIGITAL DIVIDE PANEL | 4:00pm - 4:50pm | Crockett Amphitheater**

This panel will focus on preparing employees to manage the digital divide. It's often a matter of encouraging workers to embrace new technological tools and discard outmoded ways of doing things. With the rapidly increasing availability of new tech in manufacturing applications, the change management associated with adoption is increasingly important.

**Voovio** – Using the 4-box Influence Model to Successfully Move the Organization into the Digital Age

**Innovatia** – Digital First Content: Delivered When and Where It Is Needed

**Aegex Technologies** – Superhuman Operations: Preparing Teams for Industrial IoT with Interactive Technologies

**RealWear** – Technology Always Changes but Humans Never Do

---

## **CYBERSECURITY PANEL | 4:00pm - 4:50pm | Track 5 Classroom**

The Internet of Things is unleashing unprecedented opportunity and giving rise to profound risk as equipment in commercial and industrial buildings becomes increasingly interconnected. This panel will discuss case studies that show how to balance systems integration with secure and reliable operations.

**Eastman Chemical Company** – Cybersecurity Related Risk

**Oak Ridge National Laboratory** – Industrial Controls Securely Enabled Data Driven Energy Management

**Knoxville FBI** – Cybersecurity Threat to Industry from a Law Enforcement Perspective

---

## **WRAP-UP PANEL | How to Onboard New Technology | 5:00pm - 6:00pm | Crockett Amphitheater**

Find out how plant management and operators can clear hurdles and blaze a path forward when introducing new technology. Discussion will include highlights of the day at eChemExpo. Suppliers and users in the audience are welcome to voice their opinions during the Q&A.

---

# Schedule of Events

		Track 01 Digital Transformation	Track 02 Mobility, Safety, Environment	Track 03 Engineering & Rapid Execution
Morning	7:15	Registration desk opens and early morning networking		
	8:15	<b>KEYNOTE PANEL:</b> Safely Accelerate Innovation, Improve Agility and Increase Productivity for Sustainable Business Growth (Meadowview Ballroom)		
	9:30			
	10:00	Siemens	Nestec	Aveva
	10:30		Megtec	FB&D/S&B
	11:00	Yokogawa	Anguil Environmental	RoviSys
	11:30	UiPath	Alfa Laval	Enerfab
Afternoon	12:05	Flowrox	TLV Corporation	NovaTech
	12:35	<b>FEATURED PANEL:</b> Enhancing the Speed & Quality of Decision Making with Digital Transformation (Meadowview Ballroom)		
	1:00			
	1:30	Bartec	Sentry Equipment	Aveva
	2:00		BS&B Safety Systems	Xytel
	2:30	UiPath	Aegex Technologies	Emerson
	3:00	Voovio	Pepperl+Fuchs	Applied Chemical Technology
	3:30	Eastman	SIS-Tech	Thorpe Plant Services
	4:00	DIGITAL DIVIDE PANEL	United Electric Controls	QMax Industries, Inc.
	4:30		Drawing for prizes	
	4:45		Exhibit hall closes	
	5:00		<b>WRAP-UP PANEL:</b> How to Onboard New Technology (Crockett Amphitheater)	
	5:30			

See the main floorplan on page 8 for track classroom locations.

# Schedule of Events

		Track 04 Process, Mechanical, Modeling	Track 05 Operational Excellence, Safety, Cybersecurity	Track 06 Emerging Technology & Special Topics
Morning	7:15	Registration desk opens and early morning networking		
	8:15	<b>KEYNOTE PANEL:</b> Safely Accelerate Innovation, Improve Agility and Increase Productivity for Sustainable Business Growth (Meadowview Ballroom)		
	9:30			
	10:00	Koch Glitsch	Voovio	***
	10:30	Mott Corporation	Eaton	***
	11:00	Teikoku USA		<b>ENHANCED REALITY PANEL</b>
	11:30	Thorpe Plant Services	Innovatia	
Afternoon	12:05	Endress + Hauser	Teikoku USA	Kenway Composites
	12:30	<b>FEATURED PANEL:</b> Enhancing the Speed & Quality of Decision Making with Digital Transformation (Meadowview Ballroom)		
	1:00			
	1:30	AMACS	Johnson Controls	Seeq
	2:00	Controls Southeast		OSIsoft
	2:30	Ariel Corporation	KBC (Yokogawa)	C3 IoT & AWS
	3:00	KCI Technologies	Rockwell Automation	Parsable
	3:30	M-Star CFD	ForeScout Technologies	RealWear
	4:00	Seebach Filtration	***	<b>CYBERSECURITY PANEL</b>
	4:30	Drawing for prizes		
	4:45	Exhibit hall closes		
	5:00	<b>WRAP-UP PANEL:</b> How to Onboard New Technology (Crockett Amphitheater)		
	5:30			

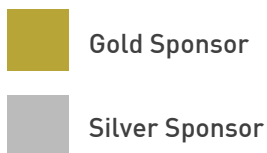
See the main floorplan on page 8 for track classroom locations.

Track 01: Digital Transformation	Siemens	Digitalization in the process industries – how and where to implement
	Siemens	Harnessing the power of digitalization to transform chemical manufacturing
	Yokogawa	Digital transformation: The journey ahead
	UiPath	The current state of Robotic Process Automation (RPA)
	Flowrox	IIoT monitoring with digital twins and embedded document management
	Bartec	How to increase operational efficiency with proven digital solutions
	UiPath	The Future of Robotic Process Automation (RPA)
	Voovio	Boosting operational excellence and performance with Eastman
	Eastman	What blockchain adoption may imply for the future manufacturing ecosystem
	<b>DIGITAL DIVIDE PANEL</b>	Preparing employees to manage the digital divide
Track 02: Mobility, Safety, Environment	Nestec	Smart oxidation solutions
	Megtec	Solvent recovery technology: Alternatives to oxidation for the chemical industry
	Anguil Environmental	Rich fume VOC control technologies & techniques
	Alfa Laval	Conserving water in process cooling applications
	TLV Corporation	Steam trap management: Do something, anything, ...please
	Sentry Equipment	Manual & automated process sampling for safety, optimization & control
	BS&B Safety Systems	Dust explosion protection – Industry drivers and technology solutions
	Aegex Technologies	The benefits of employing Intrinsically safe (IS) equipment in hazardous areas
	Pepperl+Fuchs	Where's my ROI for deploying mobile equipment in hazardous environments?
	SIS-Tech	Mobile interfaces on the plant floor – Improving safety through technology
	United Electric Controls	Hybrid layers of protection for wellhead applications
Track 03: Engineering & Rapid Execution	Aveva	Transforming Eastman through SEIGA
	FB&D/S&B	Best practices in developing Advanced Work Packaging (AWP)
	RoviSys	Application of standards and efficient designs for improved project execution
	Enerfab	Rapid response project delivery: Key principles to help deliver what you promise!
	NovaTech	New paradigms in mitigating unplanned events caused by human error
	Aveva	Reinventing instrumentation engineering and design
	Xytel	Plug and play construction
	Emerson	Operational Certainty – Strategies for top quartile performance
	Applied Chemical Tech.	Scale up strategies for commercialization
	Thorpe Plant Services	Innovated corrosion resistance internal tank linings
	QMax Industries, Inc.	Understanding the biggest pitfall in high-performance steam tracing



Track 04: Process, Mechanical, Modeling	Koch Glitsch	Enhancing the performance of distillation towers
	Mott Corporation	Advanced process filtration using porous metal technology
	Teikoku USA	Heat transfer fluid system considerations for canned motor pumps
	Thorpe Plant Services	Engineered solutions for fired heaters reliability
	Endress + Hauser	Advances in traceable flow meter verification and diagnostics
	AMACS	Best practices for separation vessel design
	Controls Southeast	Keep it running, keep it hot; A technology neutral approach
	Ariel Corporation	A “new” approach to hydrogen compression
	KCI Technologies	3D BIM for facilities management and virtual engineering
	M-Star CFD	Process optimization via numerical experiment
	Seebach Filtration	Fluid dynamics analysis
Track 05: Operational Excellence, Safety, Cybersecurity	Voovio	Boosting operational excellence and performance with Eastman
	Eaton	Substation protection for arc flash mitigation
	Eaton	New arc quenching technology for improved incident energy reduction
	Innovatia	Operational excellence supported by digital SOPs
	Teikoku USA	Increased efficiency with high speed liquid cooled motors on leakproof pumps
	Johnson Controls	IT and OT in the age of cybersecurity risk management
	Johnson Controls	The cultural transformation necessary to enable OT risk management
	KBC (Yokogawa)	Energy management system for real time optimization and monitoring
	Rockwell Automation	Automation: Securely implementing I.O.T. in the automation space
	ForeScout Technologies	Risk Assessment and Reduction in the Convergence of IT and OT Networks
Track 06: Emerging Technology & Special Topics	<b>ENHANCED REALITY PANEL</b>	Introduction to the future of “enhanced reality” in manufacturing
	Kenway Composites	Field lining of FRP composite equipment
	Seeq	An engineering path to advanced analytics
	OSIsoft	Digitally enhanced operational excellence: Transforming industrial operations
	C3 IoT & AWS	Real World Examples of artificial intelligence (AI) at enterprise scale
	Parsable	Why the connected worker is key to digital transformation and industry 4.0
	RealWear	The connected worker: Bridging the gap across the technology chasm
	<b>CYBERSECURITY PANEL</b>	How secure industrial controls systems can enable energy management

See the main floorplan on page 8 for track classroom locations.





# Exhibitors A-Z

3M Company	807
ABB	502-03
ABB Instrumentation	1506
Abernathy Thomas section	1107-10
Aegex Technologies	1205
AIChE East TN Section	69
Alfa Laval	507
Altech Environmental	1108
AMACS Process Tower Internals	206
Amazon Web Services (AWS)	1106
Amresist	910
Andon Specialties	504
Anguil Environmental	59
Applied Chemical Technology	706
Applied Industrial Technologies	210-12
Ariel Compressors	63
Ashcroft	1008
Associated Control & Supply	310
Atlas Industrial Manufacturing	610
Attivo Networks & Optiv Security	905
Aveva	901
AZUD	502-03
Baldor	1401-02
Bartec	Island F
BHS-Sonthofen Inc.	703
Biar Sampling Systems	805
Biazzini	201
Brozelco, Inc	1111
BS&B Safety Systems	1012, 1112
Bushong Industrial	401-03, 1006, 51
C3 IoT	1106
Capgemini	1105
Carl Eric Johnson	1103-04
Carlton Bates Products	812
Carotek Pavilion	907-10, 1007 -1011

CEC Section	1504-07
CEM	603
Centro	56
CG Thermal	51
Chemineer	1103-04
Chemstations	408
CIRCOR Sampling	604
Continental Disc/Grot	1510
Control Equipment Corporation	1504
Controls Southeast	53
COSA Xentaur Corporation	62
Cross Instrumentation	1508
Crouse Hinds	10
CV Technologies	1005
DAQRI	1310
DFT	1011
DMP	502-03
DXP Enterprises	1101-02
Eastman Therminol	58
Eaton	707-08
eChemExpo Headquarters	108
Econ	502-03
Ekato	802
Electric Motor Sales (EMS)	1401-02
Emerson Automation Solutions	Island B
Endress+Hauser	1007
Enerfab	407
ErgonArmor	303
eVision	Island F
Farris, Portersville PRD	1107
Fike	908
Flotwegg Separation Technology	304
FloWorks	1212, 1312
Flowrox	1002
FlowServe Control Valves	101-02
FLW Southeast	1407

# Exhibitors A-Z

<b>Ford, Bacon &amp; Davis / S&amp;B</b>	306
ForeScout Technologies	905
Forum Quadrant Valve	712
Foxboro	56
Gardner Denver Nash	52
GEA	1203-04
George Grant Company	1502
Getac	1210
Gilbert Industries	508
Hargrove E+C	902
Heatec	204-05
Hellan Strainer	1103-04
HFW Industries	510
Hooper Welding	403
Howden	1304
IKA Works	301-02
Index AR	Island F
<b>Innovatia</b>	601
Integrated Power Services	410
Jacoby-Tarbox, AWC	1109
JB Systems	1505
JLS International	103
JMS	502-03
<b>Johnson Controls</b>	906
KCI Technologies	804
Keckley	512
Kendall Electric	109-10
<b>Kenway Composites</b>	704
Koch Knight	509
Koch-Glitsch	55
Koso Hammel Dah	1509
Krohne	305
Liquid Handling Equipment	1404
Lithonia	7
Loctite	211
Lutron Electronics	809

<b>M-Star CFD</b>	409
MAAG Pump Systems	1305
<b>Megtec (B&amp;W)</b>	606
Mersen	70
Metrohm USA	505
Milwaukee Electric Tool	808
<b>Mott Corporation</b>	702
Moyno	1103-04
MRC Global	1303
National Heat Exchange Cleaning Corporation	612
<b>Nestec</b>	1006
NovaTech Solutions	312
One WESCO Pavilion	807-12
Optiv Security & Attivo Networks	905
OSIsoft	1206
P.O. DesMarais	107
<b>Parsable</b>	1211
Paul Mueller Company	401
Paxson Engineered Equipment	805
<b>Pepperl+Fuchs</b>	907
PDH accreditation center	69
Pick Heaters	506
PIP - Protective Industrial Products	811
Priologic Software (Hardhat Connect)	Island F
Process Controls Corp.	201
Process Supply LLC	1501
Protego	1502
PSA	305
Pumpworks	909
Q-Max	611
QTRCO	910
Rain for Rent	1003
RealWear Inc	1311
RECO USA, RECO Construction	405

Red Lion	1401-02
Regal Brown	502-03
ReoTemp Instruments	112-13
Rexel	8
REXEL Energy Smart Showcase	6-10
Rexnord	210
Rockwell Automation	109-10
RoviSys	412
Rowland Safety	1004
RVT Process Equipment	203
Samson Controls	1503
SchuF Fetterolf	1502
Seebach Filtration	56
Seeq	406
Sentry Equipment	501
Siemens	Island G
SIS-Tech	50
SKF	211
Southeastern Hose	212
Southgate, Standard Exchange	607-08
Spirax Sarco	912
Spraying Systems Company.	609
Square D	6
Sulzer Pumps Solutions	1009
Sunbelt Supply Company	1212, 1312
Swagelok	911
Teikoku USA	801
TEK CV&F, Parker Hannifin	1512
Tencarva	511
Tennessee Process Pumps	Island C
The Colt Group	903
Thermo Fischer Scientific	605
Thomas & Betts	9
Thompson Construction Group	12
Thorpe Plant Services	402
TLV Engineering	1507

Total Filtration Services	61
TPI	60
U.E. Systems	904
UiPath	701
United Electric Controls	711
University of Tennessee, Graduate and Executive Education	11
Vacubrand	202
Van Air	1110
Vega	1403
Victaulic	3
Viking Pumps	1010
Voovio	1001
VSP Technologies	1405
WACCO	1406
Ward Tank & Heat Exchanger Corp.	803
Warren Rupp	1010
Watson Marlow Pumps	805
WESCO Distribution, Inc.	810
Western States Centrifuges	201
Wolsely Industrial Group	709-10
Xytel	806
Yaskawa	1401-02
Yates Construction	5
Yokogawa	104-06

## Sponsors Help Make the eChemExpo Possible

### Gold Sponsors

AVEVA

BARTEC

EATON

Johnson  
Controls

SIEMENS

Thorpe  
Providing Plant Maintenance & Engineering

TEIKOKU USA INC  
CHEMPUMP

UiPath

VOOVIO

YOKOGAWA

### Silver Sponsors

aegex  
TECHNOLOGIES

ALFA  
LAVALL

AMACS  
PROCESS TOWER INTERNALS

APPLIED  
CHEMICAL  
TECHNOLOGY

BS&B

B&W  
MEGTEC

IoT

EH

enerfab

EMERSON

JS&D

iInnovatia

mott

NESTEC

PARSABLE  
JOBS DONE RIGHT, EVERY TIME.

PEPPERL+FUCHS

ReVISYS

S&B

SeeQ

SENTRY

XYTEL  
MADE IN THE USA

### Supporting Organizations

ACS  
Chemistry for Life™

ACEE®

AICHE

ASME  
SETTING THE STANDARD

BAE SYSTEMS

EASTMAN

IEEE

ISA  
Oak Ridge  
Section

NFS  
NUCLEAR FUEL SERVICES, INC.