

# 2017 Chem Show Education Sessions

| Session Title  | Date and Time               | Location         | Type  |
|--|-----------------------------|------------------|---|
| Benefits of IIoT Monitoring of Pumps, Valves, Equipment and Document Management  | 10/31/2017<br>9:30 - 10:30  | 1A Meeting Rooms | Best Practices & Technology Seminars                    |
| Optimizing Process Design Using Pneumatic Conveying and Blending   | 10/31/2017<br>9:30 - 10:30  | 1A Meeting Rooms | Best Practices & Technology Seminars                    |
| Innovative Mechanical Seal Technologies for Industries to Operate More Reliably and Efficiently with Less Downtime and Maintenance Costs | 10/31/2017<br>9:30 - 11:30  | 1A Meeting Rooms | Best Practices & Technology Seminars                    |
| Highest Dirt Holding for Lowest Filtration Cost: the Lenzing Technik HisoFil   | 10/31/2017<br>10:15 - 10:35 | Theater A        | Exhibitor Equipment & Technology Showcase Presentations |
| Use of PVDF in Additive Manufacturing  | 10/31/2017<br>10:25 - 10:45 | Theater B        | Exhibitor Equipment & Technology Showcase Presentations |
| New Technology: Rototherm® Screw Outlet  | 10/31/2017<br>10:45 - 11:05 | Theater A        | Exhibitor Equipment & Technology Showcase Presentations |
| Modular Onsite Hydrogen Generation   | 10/31/2017<br>10:55 - 11:15 | Theater B        | Exhibitor Equipment & Technology Showcase Presentations |
| Increase Reliability and Reduce Energy Costs with Pump & Piping Analysis Using Flow Modeling Software                                    | 10/31/2017<br>11:00 - 12:00 | 1A Meeting Rooms | Best Practices & Technology Seminars                    |
| Powder Characterization for Process Optimization   | 10/31/2017<br>11:00 - 12:00 | 1A Meeting Rooms | Best Practices & Technology Seminars                    |
| A Matter of Frequency: The Benefits of 80 GHz Radar for Liquid Level Measurement   | 10/31/2017<br>11:15 - 11:35 | Theater A        | Exhibitor Equipment & Technology Showcase Presentations |
| Inline Static Mixing Technology  | 10/31/2017<br>11:25 - 11:45 | Theater B        | Exhibitor Equipment & Technology Showcase Presentations |
| Oil & Grease Removal from Plant Water Using Permanent Media Filter   | 10/31/2017<br>11:45 - 12:05 | Theater A        | Exhibitor Equipment & Technology Showcase Presentations |
| SolvSep Membrane Technology for Solvent Dehydration  | 10/31/2017<br>11:55 - 12:15 | Theater B        | Exhibitor Equipment & Technology Showcase Presentations |
| Bulk Storage and Day's-Use Product Management  | 10/31/2017<br>12:00 - 01:00 | 1A Meeting Rooms | Best Practices & Technology Seminars                    |
| FUSE - Growing the Next Generation of Opportunities in Chemical Process Development  | 10/31/2017<br>12:15 - 12:35 | Theater A        | Exhibitor Equipment & Technology Showcase Presentations |
| Solutions to Ensure Successful Scale-up for Process Intensification  | 10/31/2017<br>12:30 - 01:30 | 1A Meeting Rooms | Best Practices & Technology Seminars                    |

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| Troubleshooting Common Bulk Solids Handling Issues   | 10/31/2017<br>12:30 - 01:30 | 1A Meeting Rooms | Best Practices & Technology Seminars                    |
| Eliminating Residual Product Waste in Bulk Packaging-The Xtrakt System   | 10/31/2017<br>12:55 - 01:15 | Theater B        | Exhibitor Equipment & Technology Showcase Presentations |
| The Complete Chemical Process Solution   | 10/31/2017<br>1:15 - 01:35  | Theater A        | Exhibitor Equipment & Technology Showcase Presentations |
| Proper Application of In Line Deflagration Arresters   | 10/31/2017<br>1:25 - 01:45  | Theater B        | Exhibitor Equipment & Technology Showcase Presentations |
| Solving Challenges for Ultra Low Flow Fluid Handling   | 10/31/2017<br>1:30 - 02:30  | 1A Meeting Rooms | Best Practices & Technology Seminars                    |
| State-of-the-Art Advances in Technology and Software Solutions for Development, Design, Optimization, Troubleshooting and Revamp of Industrial Reactor Systems | 10/31/2017<br>1:30 - 02:30  | 1A Meeting Rooms | Best Practices & Technology Seminars                    |
| The Future in Mixing   | 10/31/2017<br>1:45 - 02:05  | Theater A        | Exhibitor Equipment & Technology Showcase Presentations |
| New Technologies in Thermal Process Management   | 10/31/2017<br>1:55 - 02:15  | Theater B        | Exhibitor Equipment & Technology Showcase Presentations |
| Minimizing Nozzle Loads and Pipe Stresses to Optimize Chemical Pumping Systems   | 10/31/2017<br>2:00 - 03:00  | 1A Meeting Rooms | Best Practices & Technology Seminars                    |
| Ultrasonic Processing from Bench-top to Industrial Production: Applications, Process Intensification & Scale-up  | 10/31/2017<br>2:00 - 03:00  | 1A Meeting Rooms | Best Practices & Technology Seminars                    |
| Direct Measurement of Shear Stresses Exerted by High Shear Rotor Stator Mixer  | 10/31/2017<br>2:15 - 02:35  | Theater A        | Exhibitor Equipment & Technology Showcase Presentations |
| Mechanical Seals that Deliver Higher Performance, Better Reliability, and Enhanced Safety  | 10/31/2017<br>2:25 - 02:45  | Theater B        | Exhibitor Equipment & Technology Showcase Presentations |
| PTFE Clamp-Joint Drainage System   | 10/31/2017<br>2:45 - 03:05  | Theater A        | Exhibitor Equipment & Technology Showcase Presentations |
| Integrated Heat Exchanger in Glass Lined Reactors  | 10/31/2017<br>2:55 - 03:15  | Theater B        | Exhibitor Equipment & Technology Showcase Presentations |
| Three Ways a Modern Distributed Control and Information System Can Transform Your Process and Increase Your Bottom Line  | 10/31/2017<br>3:00 - 04:00  | 1A Meeting Rooms | Best Practices & Technology Seminars                    |
| Methods to Avoid Caking and Unwanted Agglomeration   | 10/31/2017<br>3:00 - 05:00  | 1A Meeting Rooms | Best Practices & Technology Seminars                    |
| SP2 – Serverless, IP-based, Plant-wide Paging and Intercom   | 10/31/2017<br>3:15 - 03:35  | Theater A        | Exhibitor Equipment & Technology Showcase Presentations |

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| Centrifugal Spin on Solvent Extraction   | 10/31/2017<br>3:25 - 03:45  | Theater B        | Exhibitor Equipment & Technology Showcase Presentations |
| 2018 Chemical Industry Spending Outlook: USA & Canada  | 10/31/2017<br>3:30 - 04:30  | 1A Meeting Rooms | Best Practices & Technology Seminars                    |
| Solutions to Clean Out Your Thermal Oil System   | 10/31/2017<br>3:30 - 05:00  | 1A Meeting Rooms | Best Practices & Technology Seminars                    |
| A Better Way to Manage Safety Checks   | 10/31/2017<br>3:45 - 04:05  | Theater A        | Exhibitor Equipment & Technology Showcase Presentations |
| I.D. Matters   | 10/31/2017<br>3:55 - 04:15  | Theater B        | Exhibitor Equipment & Technology Showcase Presentations |
| The MT8 - New Metering Pump Technology   | 10/31/2017<br>4:15 - 04:35  | Theater A        | Exhibitor Equipment & Technology Showcase Presentations |
| IS2500: Return of the Insitu   | 10/31/2017<br>4:25 - 04:45  | Theater B        | Exhibitor Equipment & Technology Showcase Presentations |
| Methods for Testing Flowmeter Calibration: Multivariable Transmitters  | 11/01/2017<br>9:30 - 10:30  | 1A Meeting Rooms | Best Practices & Technology Seminars                    |
| Maximize Reliability for Rotary Positive Displacement Pumps in the Chemical Processing Industry                                | 11/01/2017<br>9:30 - 11:30  | 1A Meeting Rooms | Best Practices & Technology Seminars                    |
| Advanced-Flow Reactors: Made for Industrial Production   | 11/01/2017<br>10:00 - 11:00 | 1A Meeting Rooms | Best Practices & Technology Seminars                    |
| Qualtrax: Documents, Processes, and Accreditation - Simplified!  | 11/01/2017<br>10:15 - 10:35 | Theater A        | Exhibitor Equipment & Technology Showcase Presentations |
| Allgaier Dryer Technology  | 11/01/2017<br>10:25 - 10:45 | Theater B        | Exhibitor Equipment & Technology Showcase Presentations |
| IIoT Applications for Operational Excellence: How to Capture Your 15% Earnings Improvement with Payback < 1 Year               | 11/01/2017<br>10:30 - 11:30 | 1A Meeting Rooms | Best Practices & Technology Seminars                    |
| Keep a Close Watch on Your Process Data  | 11/01/2017<br>10:45 - 11:05 | Theater A        | Exhibitor Equipment & Technology Showcase Presentations |
| ES-FLOW™ : New Ultrasonic Flow Meter for Low Flow Rates  | 11/01/2017<br>10:55 - 11:15 | Theater B        | Exhibitor Equipment & Technology Showcase Presentations |
| Solutions for Combustible and Fugitive Dust for Compliance & Safety  | 11/01/2017<br>11:00 - 12:00 | 1A Meeting Rooms | Best Practices & Technology Seminars                    |
| Fluorinated Materials from AGC Chemicals: Smart Chemistry Solutions for the Chemical Processing Industry and Beyond            | 11/01/2017<br>11:15 - 11:35 | Theater A        | Exhibitor Equipment & Technology Showcase Presentations |
| The 2017 Kirkpatrick Awards - Innovative Chemical Engineering Technologies that Have Been Commercialized in the Past Two Years | 11/01/2017<br>11:15 - 01:00 | 1A Meeting Rooms | Best Practices & Technology Seminars                    |

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| Safespill's Ignitable Liquid Storage Solution Transforms How the Industry Stores Hazardous Liquids                             | 11/01/2017<br>11:25 - 11:45 | Theater B        | Exhibitor Equipment & Technology Showcase Presentations |
| Vacuum System Design   | 11/01/2017<br>11:45 - 12:05 | Theater A        | Exhibitor Equipment & Technology Showcase Presentations |
| Process Industry Practices   | 11/01/2017<br>11:55 - 12:15 | Theater B        | Exhibitor Equipment & Technology Showcase Presentations |
| Transitioning to Continuous Pressure and Vacuum Filtration Technologies from Batch Operations                                  | 11/01/2017<br>12:00 - 01:00 | 1A Meeting Rooms | Best Practices & Technology Seminars                    |
| The PlantPax Modern Distributed Control System: Safe, Secure, Scalable, and Information-Enabled                                | 11/01/2017<br>12:15 - 12:35 | Theater A        | Exhibitor Equipment & Technology Showcase Presentations |
| Differential Pressure Flowmeter Calibration: Best-Practices in the Field   | 11/01/2017<br>12:30 - 01:30 | 1A Meeting Rooms | Best Practices & Technology Seminars                    |
| Oseco's Safety Cartridge - The Latest Innovation in Rupture Disc Technology  | 11/01/2017<br>1:15 - 01:35  | Theater A        | Exhibitor Equipment & Technology Showcase Presentations |
| The Demi and ReaXus: Reliable and Accurate Dosing When You Need It   | 11/01/2017<br>1:25 - 01:45  | Theater B        | Exhibitor Equipment & Technology Showcase Presentations |
| Choosing Appropriate Chemical Splash Protective Clothing   | 11/01/2017<br>1:30 - 02:30  | 1A Meeting Rooms | Best Practices & Technology Seminars                    |
| Problems and Solutions for Concrete Coatings, Linings & Flooring for the Industrial and Chemical Markets                       | 11/01/2017<br>1:30 - 02:30  | 1A Meeting Rooms | Best Practices & Technology Seminars                    |
| Flow Technology Innovations  | 11/01/2017<br>1:45 - 02:05  | Theater A        | Exhibitor Equipment & Technology Showcase Presentations |
| The Most Accurate Metering Pump with No Pulsation  | 11/01/2017<br>1:55 - 02:15  | Theater B        | Exhibitor Equipment & Technology Showcase Presentations |
| Induce and Enhance Phase Transfer Catalysis with Ultrasonics   | 11/01/2017<br>2:00 - 03:00  | 1A Meeting Rooms | Best Practices & Technology Seminars                    |
| DIFREX: Innovative Technology and Software Solutions for Design, Operation Optimization and Troubleshooting of Reactor Systems | 11/01/2017<br>2:25 - 02:45  | Theater B        | Exhibitor Equipment & Technology Showcase Presentations |
| Bolting Optimization   | 11/01/2017<br>2:30 - 03:30  | 1A Meeting Rooms | Best Practices & Technology Seminars                    |
| Using Powder Rheology to Optimize Process Performance  | 11/01/2017<br>2:45 - 03:05  | Theater A        | Exhibitor Equipment & Technology Showcase Presentations |
| Introducing AALBORG's Differential Pressure Volumetric/Mass Flow Line  | 11/01/2017<br>2:55 - 03:15  | Theater B        | Exhibitor Equipment & Technology Showcase Presentations |
| Best Practices in Drum Decanting and Product Transfers   | 11/01/2017<br>3:00 - 04:00  | 1A Meeting Rooms | Best Practices & Technology Seminars                    |
| Leveraging Your Expertise to be a Chemical Industry Consultant   | 11/01/2017<br>3:00 - 05:00  | 1A Meeting Rooms | Best Practices & Technology Seminars                    |

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| Reactor Retrofit   | 11/01/2017<br>3:15 - 03:35  | Theater A        | Exhibitor Equipment & Technology Showcase Presentations |
| Better Shift Reports, Increased OEE and Continuous Improvement                     | 11/01/2017<br>3:25 - 03:45  | Theater B        | Exhibitor Equipment & Technology Showcase Presentations |
| Navigating Pitfalls When Choosing Pressure Relief Devices for System Designs       | 11/01/2017<br>3:30 - 05:00  | 1A Meeting Rooms | Best Practices & Technology Seminars                    |
| New Product from Tantaline CVD: Treated Metal Bellows for Corrosive Environments   | 11/01/2017<br>3:45 - 04:05  | Theater A        | Exhibitor Equipment & Technology Showcase Presentations |
| Bolting Optimization Drives Productivity Enhancement & Efficiency Gains            | 11/01/2017<br>3:55 - 04:15  | Theater B        | Exhibitor Equipment & Technology Showcase Presentations |
| Benefits of Intrinsic Safe Tablets, Phones and Cameras in Hazardous Locations      | 11/01/2017<br>4:15 - 04:35  | Theater A        | Exhibitor Equipment & Technology Showcase Presentations |
| Control Any Valve with Hanbay  | 11/01/2017<br>4:25 - 04:45  | Theater B        | Exhibitor Equipment & Technology Showcase Presentations |
| Advances in Particle Size Analysis in the Lab and Online                           | 11/02/2017<br>10:00 - 11:00 | 1A Meeting Rooms | Best Practices & Technology Seminars                    |
| Process Industry Best Practices  | 11/02/2017<br>10:00 - 11:00 | 1A Meeting Rooms | Best Practices & Technology Seminars                    |
| Using an Anti-fouling Membrane Filtration System for Higher Concentration          | 11/02/2017<br>10:00 - 11:00 | 1A Meeting Rooms | Best Practices & Technology Seminars                    |
| High-Performance Drum Heating  | 11/02/2017<br>10:15 - 10:35 | Theater A        | Exhibitor Equipment & Technology Showcase Presentations |
| Diemme Filtration: Redesigned Filter Press Technology for Chemical Applications    | 11/02/2017<br>10:45 - 11:05 | Theater A        | Exhibitor Equipment & Technology Showcase Presentations |
| New Ploughshare® Processing for Battery Applications                               | 11/02/2017<br>11:15 - 11:35 | Theater A        | Exhibitor Equipment & Technology Showcase Presentations |
| Boost the Efficiency of Shift Handovers and Morning Meetings at your Plant         | 11/02/2017<br>11:30 - 12:30 | 1A Meeting Rooms | Best Practices & Technology Seminars                    |
| Industry Trends in Control Valve Automation  | 11/02/2017<br>11:30 - 12:30 | 1A Meeting Rooms | Best Practices & Technology Seminars                    |
| Tips to Communicate Effectively with the Petrochemical Industry Today and Tomorrow | 11/02/2017<br>11:30 - 12:30 | 1A Meeting Rooms | Best Practices & Technology Seminars                    |
| Agitation Selection and Sizing for Viscous Products                                | 11/02/2017<br>1:00 - 02:00  | 1A Meeting Rooms | Best Practices & Technology Seminars                    |
| Optimizing the Steam Generation Cycle and Condensate Recovery Process for Profit   | 11/02/2017<br>1:00 - 02:00  | 1A Meeting Rooms | Best Practices & Technology Seminars                    |