

9:15	Opening/welcome: Wojciech Zmudzinski, BP, USA (Chairman)		
9:30	Plenary Session 1: Jan Reinder, The Netherlands, Magic-Minded, Change your Mind, Change your Actions: Part 1		
10:00	Plenary Session 2: M. Venugopal, Assistant Vice-President, Project Procurement, Reliance, India, End-User Expectations for the Valve Industry		
10:30	Coffee and Expo break		
	ROOM 1		
11:00	Open Forum Panel Discussion: Keeping Pace with a Changing Market Moderator: Mr. Wojciech Zmudzinski, BP, USA		THIS PANEL DISCUSSION IS OPEN TO ALL AT VALVE WORLD 2018 PRE-REGISTRATION IS NOT NECESSARY. ENTRANCE FREE OF CHARGE
	The valve industry is far from static at present. There are several dynamics that make our sector 'lively', such as the geopolitical climate (trade conflicts), climate change (more strict regulations), volatility in pricing (materials) or data-driven management, to only mention a few. In order to stay in business (the license to operate) the valve industry needs to adapt to changing conditions or – even better – be ahead of the competition. In the discussion, which will kick-off the Valve World conference, a panel of end-user experts will address the most pertinent challenges that will impact the valve industry in the coming years. Some of these challenges are of a general nature, but there are also day-to-day challenges that need to be addressed such as automation & actuation, procurement, inspection, installing, maintenance, repair, standardization and staffing. Some of these topics will then be handled in greater detail in the individual sessions of the conference. Come along and share your practical solutions/advice to some of these challenges or get solutions to your problems.		
12:30	Lunch and Expo break		
13:30	Plenary Session 3: Jan Reinder, The Netherlands, Magic-Minded, Change your Mind, Change your Actions: Part 2		
	ROOM 1	ROOM 2	ROOM 3
	Design Chair: Ron Merrick, Fluor, USA	Severe Service Applications 1 Chair: Claire Dwyer, Fluor, USA	Testing 1 Chair: Mark Vredegoor, AkzoNobel, The Netherlands
14:00	Thermoplastic Valves: A Good Alternative to Metallic Valves?, ÖZTÜRK, SAFI, France (18048)	LNG Ball Valve Experience, Goodfellow, Alderley Systems , UK (18017)	Laboratory Testing of Fugitive Emissions for Valves, Packing and Gaskets, Wasielewski, Yarmouth Research and Technology, USA (18030)
14:20	Fluororesin-lined Butterfly Valves, Yokozawa, KITZ, Japan (18063)	Hardfacing Solutions for Severe Service Valves, Khelfaoui, Velan, Canada(18099)	Measurement and Simulation Different ways to get all essential information on your valves, Mosshammer, TU Graz - Institute of Hydraulic Fluid Machinery, Austria (18025)
14:40	Ball Valves for Extreme High Temperature Service, Sparisci, DAFRAM, Italy (18073)	Valves in Molecular Sieve service, Batra, Chiyoda Corp., Japan (18002)	Safety Valve Testing and Qualification, Schummer, Framatome, Germany (18112)
15:00	Coffee and Expo Break		
	Workshop: Inspection during Manufacturing: Do We get what We ask for and need? Moderator: J. Butterfield, KCI Publishing; Panelists: A. Bertamoni, Vanessa, Italy; P. Root, Goodwin, UK; E. Jordaan, Nouryon; J. Links, Dow Benelux;; L. Nijland, GasUnie (all three from The Netherlands)	Severe Service Applications 2 Chair: Paul Heald / Bonney Forge, USA	Workshop: Maintenance Moderator: F. Voelker, Beric Valves, USA
15:30	A provocative title which will deliver some lively discussions. Although the manufacture of most critical valves goes without flaw there are occurrences where things can go seriously wrong. This can be costly for both the manufacturer and end-user and lead to considerable time delays, failure to have projects up and running on time, and may even bring safety issues. The intention of this workshop is to point out some of the errors that can occur during the inspection process during manufacture from an end-user, EPC, and manufacturing perspective. The goal of the workshop will be, through concrete examples and case studies, to provide participants with knowledge as to how many of these problems can be avoided. Naturally, this will also be a platform to find solutions to the everyday challenges of participants and to share experiences. Themes that will be discussed include: miscommunication of specifications; lack of adequate inspection, incomplete check lists, lack of knowledge regarding norms and standards, lean manufacturing, testing procedure, motivational issues. Case studies will include: leakage rates, casting defects, flange facing finishes, welding defects, finishing, coatings, traceability of pressure containing parts, and documentation. Participants will also be able to address issues to the panel before the meeting. Come along to learn, share, and save your company money.	Purging in Severe Service Application Valves, Kassab, MOGAS Industries(18009)	In this workshop a number of valve repair experts, end users, valve manufacturers, packing manufacturers, and gasket manufacturers will participate to offer expertise with regard to valve maintenance and valve repair (field and shop). The program is designed to provide information for the maintenance and repair of all types of valves with a spotlight on maintenance, repair and upgrades of valves to meet low e compliance and service. Information will also be provided on the use of the Drill and Tap process for maintenance that is required and used in LDAR programs globally. A fixture will be available to provide a hands on packing demonstration as well as how to properly maintain a valve as part of LDAR regarding the proper procedure for re-torquing the packing assembly. Some of the other issues that will be addressed are: Maintenance pertaining to new valves Maintenance relative to low e compliant valves Predictive maintenance vs. preventative maintenance Field maintenance of installed valve population Reconditioning/repaired valves by a third party provider.
15:50		Wear Testing and Numerical Modelling for Designing Reliable Severe Service Valves, Colomo, Ampo Poyam Valves, Spain (18077)	
16:10		The Advantages of SSKGV's in Hydro Metallurgy, Waters, CG Industrial Specialties, Canada (18014)	
16:30		ESD Valve Maintenance – Install-and-Forget Device? Kähkönen, Metso Flow Control, Finland (18040)	

10:00	Plenary Session 3: Matjaž Matošec, Resolute Research, The Netherlands, A Global Valve Market: Trends & Opportunities			
10:30	Plenary Session 4: Hans van Cleef, ABN AMRO Bank, The Netherlands, Will Investments in the Oil & Gas Industry (Ever) Pick Up Again?			
11:00	Coffee and Expo break			
	ROOM 1	ROOM 2	ROOM 3	ROOM 26, 2nd Floor CCD South
	Workshop: Big Data and the Future of Monitoring Moderator: D. Anderson, Score Diagnostics, UK Panelists: M. Dijkman, BASF, Germany; W. Vancauwenberghe, Belgian Maintenance Association (BEMAS); C. Stevens, Alox, The Netherlands	Testing 2 Chair: Thomas Wagner, Framatome, The Netherlands	Materials Selection Chair: Gobind Khiani, Consultant	Workshop: Advanced Fugitive Emissions Moderators: Rodney Roth, Beric Valves, USA; Bronson Pate, RFS Compliance Solutions, USA
11:30	A panel of end users and diagnostic experts from a variety of industries will look at how the collection of big data will change the ways in which we monitor and organize our industrial production processes. What are current and future trends? How will these changes affect not only processes/maintenance/monitoring but also the need for different types of personnel? The panel will address such themes as: What is the concept of industry 4.0 as it applies to valves? What is the impact of big data on monitoring? What are the benefits/possible drawbacks of using big data? How do end-users wish to monitor their processes in the future? How to change people's mentalities towards using data? Example of field level diagnostics. Digital trends/documentation to qualify properties. Process data to diagnose valves. Concrete examples of how to deal data. Who owns the data? Failure modes. Case studies. Changing standards. Failure protection. Future trends.	Proposal for International Standard – Type Testing of Industrial Valves, Vernhes, Velan, Canada (18090)	Surface Hardening of Corrosion-resistant Materials Technology, Properties and Benefits, Selg, Expanite GmbH, Germany (18034)	Since the early 1960s pollution or 'air quality' has been on the forefront for reduction. The United States started implementing regulations in the early 1980s with Europe (EU) and many other countries implementing regulations starting in the 1990s. With the knowledge that some of the countries have gained over the past 30–40 years of emission reductions, as recent as the mid-2000s other countries have also started to implement or start to develop regulations to improve air quality. Most of the regulations that these countries are implementing are based on knowledge gained from the USA and EU through their trials over the past 3-to-4 decades. With this being said many countries have made commitments to reduce emissions by 20% by 2020. This advanced fugitive emissions course will dive deeper into how engineering, design, and regulations have and will continue to help reduce emissions throughout the globe. There will be plenty of opportunity to pose questions and get answers relating to your own work situation, be it end-user or manufacturer related.
11:50		Theoretical and experimental research concerning gasket stiffness to be applied in load calculation of the flange-gasket-bolts joints for the assembly condition I=0, Patrascu, Etanșari GRAFEX (18044)	The Role of Advanced Ceramic materials in Severe Service Valve Applications, Thompson, Morgan Advanced Materials, Austria (18007)	
12:10		New unique test facility: Valve testing up to 3400bar at the CSE High Pressure Loop, Böhme, CSE-Engineering Center of Safety Excellence GmbH, Germany, (18079).	Comparative Galling Resistance of Super Duplex Stainless Steel Alloys, Coghill, Langley Alloys, UK (18116)	
12:30		Utilisation of Universal Test Rigs for the Valve Industry – Customised Evaluation of Valve-Specific Properties, Benigni, TU Graz - Institute of Hydraulic Fluid Machinery, Austria (18026)	The use of Martensitic Stainless Steel in High H ₂ S containing Environments, Wolters, Mokveld Valves, The Netherlands (18089)	
13:10	Lunch & Expo Break			
	Workshop: Standardization of Vendor Deliverables Moderator: S. Cherlet, Consultant, UK. Panelists: C. Reynes, Total, France; M. Greenhalgh, ISO, UK; P. Heald, Bonney Forge, USA; R. Merrick, Fluor, USA; T. Smart, Shell, The Netherlands; T. Wagner, Framatome, Germany	Control Valves & Instrumentation Chair: Fergus Harisson, ExxonMobil, UK	End-User Requirements Chair: Marc Simoëns, Dow Benelux, The Netherlands	Advanced Fugitive Emissions (Paper Session) Moderator: Rodney Roth, Beric Valves, USA
14:30	This workshop will bring together vendors, EPC engineers, and plant operators to address their challenges with regard to vendor deliverables on a common stage so that possible solutions to the challenges can be discussed mutually. Every year, millions of man-hours are spent by EPC company engineers to review vendor documents pertaining to valves. The reason for these enormous number of hours spent on review work can be summarized as: the lack of requirements from operator companies; lack of involvement of EPC companies during plant operation; field operators who are not involved in the engineering phase of the project or not involved during the vendor documentation review work; and lack of API guidelines regarding mandatory vendor documentation. Panelists will provide feedback and examples based on their experiences and knowledge and will put forward practical time saving and cost effective solutions to be discussed with the audience.	Using Simulation to Establish Control Valve Multi-Stage Sigma, Butler, Flowserve, USA (18065)	Expectations and Experiences of Valve Coatings, Simoëns, Dow Benelux, The Netherlands (18029)	Considerations in Low Fugitive Emission Valves, Perez, Velan, Canada (18066)
14:50		Integration of Numerical Methods with IEC Standard for Aerodynamic Noise Prediction in Control Devices, Malavasi, Polytechnic University of Milan, Italy (18062)	Valves Failures / Problems Analysis and Proposed Solutions –Industrial Experiences, Sotoodeh, Aker Solutions, Norway (18001)	The Future of Magnetically Actuated Valves, Davis, Maui Innovation Group, USA (18067)
15:10		What to Look for in Control Valve Tech to Positively Impact Your Bottom Line, Sipala, Emerson Automation Solutions, USA (18106)	Acoustic Monitoring Environmentally Friendly but Economically Invaluable, Pate, RFS Compliance Solutions, USA (18115)	Live Loading on Valve Stuffing Boxes, Dekker, Chesterton International, Germany (18047)
15:30		Will Butterfly Technology Replace Conventional Valve Technologies for Control Application?, Garg, Advance Valves, India (18114)	Valves Pre/Post Commissioning Best Practices, Tarabzouni, Saudi Aramco, Saudi Arabia (18107)	Tool Development for Design and Optimization of Valve Packings, Lejeune, Cetim, France (18035)
15:50			What Makes a Valve Low E, Roth, Beric Valves, USA (18111)	Qualification of Low Friction Valve Packings for Nuclear Applications, Sauger, Cetim - Technologies de l'Étanchéité, France (18081)
18:00	Valve World Conference Dinner			

THURSDAY NOVEMBER 29, 2018

9:30 **Plenary Session 5:** Owen Gu, Newway Valve, China, Outlook for the Future of the Valve Industry with New Technologies

	ROOM 1	ROOM 2	ROOM 3	
	<p>Proposal for an International Standard: Type Testing of Industrial Valves Moderator: Luc Vernhes, Chairman, Canadian Mirror Committee ISO/TC153 & Director Engineering, Business Development, Velan, Canada; Panelists: C. Reynes, Total, France; E. Euthymiou, former Petrobras, Brazil; J. Peterschmitt, KSB, France; E. Sauger, Cetim, France; T. Smart, Shell, The Netherlands; and C. Zegers, ITIS, The Netherlands.</p>	<p>Automation & Actuation: Chair: Kees Meliefste, Dow Benelux, The Netherlands</p>	<p>Maintenance and Repair 1 Chair: Emiel Jordaan, Nouryon, The Netherlands</p>	
10:00	<p>ISO and API have standards covering valve design requirements, production testing of valves, and quality qualifications. Relatively recent standards covering performance testing have been introduced, such as for FE. While seat tightness or torque requirements are as important as FE, there is no comprehensive ISO or API valve type testing standard. ISO/TC 153 is working on a new standard at the proposal stage: ISO/NP 23632 "Industrial valves – Type-testing of valves". The main objective of this workshop is to increase awareness of the community regarding the fact that there is no standard for type testing of valves. We will present examples of valve component failures during such type tests. We will also present a proposal of a type testing protocol encompassing mechanical, pressure and/or thermal cycling. This will serve as the basis for our workshop discussion. We are very interested in your comments, questions, and suggestions, and remarks so please come along and take part. It promises to be an interesting and very useful discussion for end-users and manufacturers alike, as well as being a unique opportunity to meet leading experts working on this new ISO standard.</p>	10:00	Actuated Valve Assembly Initiative, Hinssen, iHandl Engineering, Belgium (18033)	Reliability, Uptime and Sweet Dreams (The current status of Intelligent Valve Management™), Anderson, Score Diagnostics, UK (18095)
		10:20	Performance and Reliability Analysis of Solar Powered Valve Actuation in a Gas Pipeline Network of Iran, Nazifard, University of Kashan, Iran (18006)	Real-Time Analysis and Failure Detection of Safety, Jeeves, MRC Global, Norway (18082)
		10:40	Hydraulic Actuators for Regulating Valves: New Smart Solutions, Belletti, Emerson Actuation Technologies, Italy (18058)	Remote Monitoring of Bolt Tension as a Key to Improving Operational Performance, Plant Safety and the Elimination of Leaks, Parry, James Walker Sealing Products & Service, UK (18086)

11:00 **Coffee & Expo Break**

	ROOM 1	ROOM 2	ROOM 3
	<p>Sealing and Packing Technology Chair: Rodney Roth, Beric Valves, USA</p>	<p>Castings and Forgings Chair: Raymond Cordewener, Independent Consultant, The Netherlands</p>	<p>Maintenance and Repair 2 Chair: Emiel Jordaan, Nouryon, The Netherlands</p>
11:30	Dimensionally Stable Lower Friction Polymeric Solutions to Reduce Valve Actuator Size Over Extreme Temperature Ranges, Noe, DuPont International Operations SARL, France (18069)	Evaluating Variance of Defect Occurrence Rates and Governing Foundry Process to Improve Casting Quality, Sanjeev, Mira Alloy Steels Private, India (18088)	Match Application Conditions Rather than Pressure Classes, Particularly where Thermal Cycling or High Temperatures are Experienced, Versluis, James Walker Sealing Products & Service, UK (18085)
11:50	Advanced Metal Seal Technologies for Critical Valve Applications, Ritter, Technetics Group, France (18010)	Autonomous Engineering supports Innovative Part Design and Robust Process Layout for High-Quality Valve Castings, Dr.-Ing. Hahn, MAGMA Gießereitechnologie, Germany (18042)	Hard Pacing Delamination: A 3-Step Approach to Solving Valve Delamination in Power Plants Burdened by Renewables, Tomaini, Emerson Automation Solutions, USA (18101)
12:10	Appropriate Tightening Stress Under the High Pressure Gas Condition of Low-E packing, Inoue, Nippon Pillar Packing, Japan (18019)	Additive Manufacturing – How can AM affect the Valve Industry, Wennersten, Ramen Valves, Sweden (18022)	Renewal of Soft Seat Inserts on Valve Seat Rings, Subathran, Saudi Arabian Engineering, Saudi Arabia (18038)

12:30 **End of conference**