



INDUSTRIAL VALVE SUMMIT

MAY 24TH > 25TH 2017
BERGAMO - ITALY

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PROMOTER

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PROMOBERG**



SUPPORTED BY



CONFERENCE PROGRAMME

2ND INTERNATIONAL EXHIBITION AND CONFERENCE ON VALVE AND FLOW CONTROL TECHNOLOGIES

ENDORSED BY



WELCOME ADDRESS

Dear IVS Friends,

IVS 2017 - INDUSTRIAL VALVE SUMMIT will shortly be in Bergamo again and, with its Conference, Round Table, Parallel Workshops and ValveCampus Training Courses, it will give all of you a unique and superb opportunity to meet and share experiences with all major stakeholders, in representation of End-Users, EPCs, Valves' and Actuators' Manufacturers and with their entire supply-chain.

This year, IVS slogan is "Leading the global market flow" and it also well reflects the content of the technical contributions which will be presented during the conference.

The conference program, split in 13 specific sessions, will offer 50 excellent papers, selected by the IVS 2017 Advisory Board among more than 100 received abstracts. The conference themes are:

// ADVANCES IN SAFE VALVE DESIGN, MATERIALS, MANUFACTURING AND COATINGS

// ACTUATION AND CONTROL

// VALVE SEALING PERFORMANCE

// STANDARDS, CODES, LEGISLATION AND QUALIFICATIONS

// END USER'S EXPERIENCE, T.C.O. (TOTAL COST OF OWNERSHIP), LOCAL CONTENT, AFTERMARKET AND SERVICE

The IVS 2017 Advisory Board has shown, with an excellent team work during the last 12 months, how dedication and willingness to cooperate are the essential basis for mutual networking and knowledge exchange.

The contribution of its Members has been vital and I do congratulate heartily with all of them and thank them for the support and actions given, which will offer a tangible sign to all Delegates.

During the conference, we will all be able to listen to new technical issues and pioneering technologies and continue our learning process.

After having worked for more than 45 years in this area, I still believe that the valve industry – at large – is still a challenging opportunity when dealing with manufacturing, plant design and maintenance.

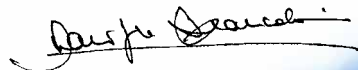
This will also be vital for the younger generation of technicians: by having joined our community, they will soon learn that know-how and experience transfer are extremely important for their future and their careers.

Our market is still very dynamic and I am sure that events like IVS 2017 and its conference will contribute to reducing currently existing gaps, primarily originated by different political and geographical views.

The networking which will also be tangible during IVS 2017 will prove, once again, that we all speak the same “valve language” and, if we continue to apply the SWOT analysis approach, we can all transform weaknesses into strengths and threats into opportunities quickly and efficiently!

During the Conference, our community will also face intensively – for valves and actuators – the approaches and benefits of IIoT (Industrial Internet of Things), which – along with additive manufacturing, industrial cyber security and data transfer, thanks to modern communication platforms and devices – will be, with no doubt, a totally new and challenging experience for the benefit of the investments, plants, environment and – last but not least – humanity.

MAURIZIO BRANCALEONI
IVS 2017 Advisory Board President

A handwritten signature in black ink, appearing to read 'Maurizio Brancaleoni', written over a horizontal line.

ADVISORY BOARD

INDUSTRIAL VALVE SUMMIT's independent expert Advisory Board is responsible for setting the conference themes and suggested topics, and for selecting papers to be included in the programme. The Board represents a wide cross section of the industry, and comprises experienced professionals from leading end user, engineering and construction companies, service providers, associations and consultancies.

CHAIRMAN:



Maurizio Brancaleoni
IVS 2017
Chairman

MEMBERS:



Bader M. Al-Jarallah
Saudi Aramco



Ray Bojarczuk
ExxonMobil



Aldo Bonomi
Confindustria



Carlos Davila
Crane
ChemPharma &
Energy
(Fluid Handling)



David Edwin-Scott,
ESA - European
Sealing Association



Marco Fortis
Fondazione Edison



Brian A. Lade
Syn crude Canada



Alberto Leni
Saipem
Romania



Carlo Mapelli
AIM
Associazione Italiana
di Metallurgia



Ron Merrick
Fluor Enterprises



Umberto Navarra
TechnipFMC



Alexandre Popa
CEN Consultant



**Jean-Michel
Rivereau**
Total



Emmanuel Sauger
CETIM



Stefano Trasatti
NACE Milano Italia
Section



Chris Warnett
CPLloyd Consulting










Piergiuseppe Zani
Senior Advisor
Industrial Automation

MARK YOUR CALENDAR

DAY	THEME	H.	SESSION NR.	TITLE	
WED 24 TH	1	10:00	1	Valve materials and design	
	3	10:00	2	New trends in valve sealing	
	5	10:00	3	End users' expertise, failure analysis and maintenance	
	W	11:00	Workshop	Valve maintenance for "dummies" (and experts)	FREE ENTRY
	KS	13:30		Risks and Opportunities on the current Middle East Oil&Gas market - A local EPC Contractor perspective.	FREE ENTRY
	W	14:30	Workshop	ESDV reliability prediction workshop	FREE ENTRY
	1	15:00	4	Coatings and design outlooks for valve technologies	
	2	15:00	5	Developments in actuators' design	
	4	15:00	6	Valve standards	

DAY	THEME	H.	SESSION NR.	TITLE	
THU 25 TH	1	10:00	7	Advanced surface technologies	
	2	10:00	8	Communication and actuation developments	
	3	10:00	9	Advanced sealing solutions	
	5	10:00	10	Sharing experience to define the total cost of ownership	
	W	11:00	Workshop	Valve maintenance for "dummies" (and experts)	FREE ENTRY
	W	14:30	Workshop	Control valve reliability prediction	FREE ENTRY
	3	15:00	11	Fugitive emissions	
	4	15:00	12	Strategies for operational excellence through standardization	
	5	15:00	13	End users' expertise and performance monitoring	

	THEME 1: ADVANCES IN SAFE VALVE DESIGN, MATERIALS, MANUFACTURING AND COATINGS
	THEME 2: ACTUATION AND CONTROL
	THEME 3: VALVE SEALING PERFORMANCE
	THEME 4: STANDARDS, CODES, LEGILATION AND QUALIFICATIONS
	THEME 5: END USER'S EXPERIENCE, T.C.O. LOCAL CONTENT, AFTER MARKET AND SERVICE
	WORKSHOP (IVS Innovation Theatre, HALL B, Exhibition Center)
	KEYNOTE SPEECH (IVS Innovation Theatre, HALL B, Exhibition Center)

SESSION 1 - Room Colleoni (ground floor)

VALVE MATERIALS AND DESIGN

CHAIR:

Ron Merrick - Fluor Enterprises, USA

-
- 10:00** **Hastelloy® C-22HS®: a new rising material for the Oil&Gas industry**
Matteo Bosatra, Alberto Morini, Marco Carniti - Fondinox, Italy
Klaus Ohla - Haynes International, USA
-
- 10:30** **Correct heat treatment for the production of castings of the alloy ASTM A494 42Ni-21.5Cr-3Mo-2.3Cu**
Silvia Barella, Andrea Gruttadauria, Carlo Mapelli, Davide Mombelli - Politecnico di Milano, Italy
-
- 11:00** **Innovative solutions for advanced safety with plastic valve designs**
Thomas Küssner, Sandra Schiller, Georg Fischer - Piping Systems, Switzerland
-
- 11:30** **Nonlinear FE approach for design by analysis of valves: advantages for optimization and cost reduction**
Stefano Cavalleri, Michele Camposaragna, Sergio Sarti - EnginSoft, Italy
-
-

SESSION 2 - Room A (first floor)

NEW TRENDS IN VALVE SEALING

CHAIR:

David Edwin-Scott - European Sealing Association, United Kingdom

-
- 10:00** **Novel Cryogenic SPE Seal Designs**
Francis Lebeau, Telesforo Riccardo Lori, Max Salogni - Fluorfen, Italy
-
- 10:30** **Development of new generation of seat seals for cryogenic trunnion mounted ball valves**
Christophe Valdenaire, Filip Rousseau, Herman Dubois, Philippe Burlot - Saint-Gobain Seals, Belgium
-
- 11:00** **Reducing fugitive emissions by use of Rupture Disc safety devices**
Mario Modena, Cristian Barbi - Donadon SDD, Italy
-
- 11:30** **Influence of large cross sections and temperature on Rapid Gas Decompression (RGD) resistance of elastomers in the Oil&Gas industry**
Andrew Douglas, John Gray, John Rogers, Stefano Consonni - James Walker, United Kingdom
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SESSION 3 - Room B (first floor)

END USERS' EXPERTISE, FAILURE ANALYSIS AND MAINTENANCE

CHAIR:

Brian A. Lade - Syncrude, Canada

-
- 10:00** **The concern of valves in non-horizontal installations (end user experience)**
Bader Al-Jarallah - Saudi Aramco, Saudi Arabia / Andrea Righini - Orion Valves, Italy
-
- 10:30** **Structural health monitoring of valves: the SAAMMx-20 project for a new approach to safer valves**
Alberto Monici - ETS Sistemi Industriali, Italy
-
- 11:00** **Double positive isolation with triple offset valves**
Marco Ferrara, Sergio Casaroli, Luca Vertova - Emerson Automation Solutions, Italy
-
- 11:30** **Mitigating MOV stem nut failure through proper maintenance and wear measurement**
Chuck Reames - Stemnut, USA / Chris Warnett - CPLloyd Consulting, USA
-
-

SESSION 4 - Room Colleoni (ground floor)

COATINGS AND DESIGN OUTLOOKS FOR VALVE TECHNOLOGIES

CHAIR:

Jean-Michel Rivereau - Total, France

-
- 15:00** **K-EL 850®: alternative and improved plating for ball & gate valve trims**
Paolo Bergamini - Hutchinson Gasket International, Italy
Luca Magagnin - Politecnico di Milano, Italy
-
- 15:30** **Additive Manufacturing for the Valve Industry: Opportunities, Limits and Challenges**
Vanni Lughì - University of Trieste, Italy / Alberto Rossi - Orion Valves, Italy
-
- 16:00** **Top-entry triple offset metal seated valves. Verification of performance and maintainability through life cycle type approval test. The Aramco case study**
Andrea Gneccchi - Fluicon, Italy / Mousa Al-Harbi - Saudi Aramco, Saudi Arabia
-
- 16:30** **Additive manufacturing for control valves: new materials and design outlooks**
Sergio Lorenzi, Tommaso Pastore, Marina Cabrini, Cristian Testa - University of Bergamo, Italy
Simone Brevi - OMB Valves, Italy / Mauro Toia - Fluicon, Italy / Diego Manfredi - IIT Istituto Italiano di Tecnologia, Italy / Sara Biamino, Giulio Marchese - Politecnico di Torino, Italy
-
- 17:00** **The importance of an easy and effective maintenance on a butt-weld ends quarter turn valve. The development of the top entry design**
Francesco Bracchi, Raoul Gatti - IMI Orton Valves, Italy / Antonello Vago - IMI Truffo, Italy
-
-

SESSION 5 - Room A (first floor)

DEVELOPMENT IN ACTUATORS' DESIGN

CHAIR:

Umberto Navarra - TechnipFMC, Italy

15:00 **Innovative cable drive actuator for quarter turn valves**

Nicola Lucchesi, Fabio Lapini - Velan ABV, Italy

15:30 **New fail safe electric actuator designs with functional safety help to make plants safer**

Joerg Isenberg, Gert Wetzel - Auma Riester, Germany

16:00 **Fatigue assessment of scotch yoke for high cycles applications in heavy-duty valves actuators**

Matteo Riboli, Davide Pellinghelli, Flowserve Limitorque, Italy / Andrea Spagnoli - Università degli Studi di Parma, Italy / Matteo Bergonzoni - University of Padova, Italy

16:30 **Comparative performance analysis of an electric actuator for control valves**

Riccardo Bacci di Capaci, Claudio Scali - University of Pisa, Italy / Evaldo Bartaloni - CLUI AS, Italy

SESSION 6 - Room B (first floor)

VALVE STANDARDS

CHAIR:

Alexandre Popa - CEN Consultant, France

15:00 **New standards & editions changes for fugitive emissions compliance & valve requirements**

Paul Heald - Bonney Forge, USA

15:30 **Fugitive emission under ISO15848-1. Normative and related Helium Leak Test Experimental set-up and results interpretation**

Alberto Monici - ETS Sistemi Industriali, Italy

16:00 **Correct valve selection for ESD**

Ville Kähkönen - Metso Flow Control, Finland

SESSION 7 - Room Colleoni (ground floor)

ADVANCED SURFACE TECHNOLOGIES

CHAIR:

Brian A. Lade - Syncrude, Canada

10:00 Tribocorrosion in valves

Fabio Cova Caiazzo, Stefano Mischler - École Polytechnique Fédérale de Lausanne, Switzerland

10:30 Corrosion protection of bulk valves: engineering company approach and feedback

Sergio Maria Volonté, Giorgio Longoni - Tecnimont, Italy

11:00 Selecting the best Corrosion Under Insulation (CUI) solutions

Chris Magel, PPG Protective & Marine Coatings, Belgium

11:30 Ball valves for extreme high temperature service: design and coating validation by means of bench sessions and performance tests

Marco Sparisci, Enrico Palmieri - Dafram, Italy

12:00 Tungsten Carbide coatings for Valves' market: State of the Art and on-going developments

Walter Cerri, Andrea Chierichetti, Paolo Defendenti - Flame Spray, Italy

SESSION 8 - Room A (first floor)

COMMUNICATION AND ACTUATION DEVELOPMENTS

CHAIR:

Chris Warnett - CPLloyd Consulting, USA

10:00 Actuation solutions for unmanned off-shore platforms

Stefano Belletti - Emerson Automation Solutions, Italy

10:30 Evaluation and effect of the dynamic torque on cage control ball valves

Danilo Barni - CIRCOR Pibiviesse, Italy

11:00 Electro-hydraulic actuators and network communication: the forefront of asset management

Katia Marsanich - Rotork Fluid Systems, Italy

11:30 Heavy Duty Actuation - How effective design can reduce maintenance and improve production uptime

Jacqueline Onditi - Flowserve Limitorque, Italy

SESSION 9 - Room B (first floor)

ADVANCED SEALING SOLUTIONS

CHAIR:

Emmanuel Sauger - Cetim - Centre technique des industries mécaniques, France

-
- 10:00** **Advanced metal sealing solutions for critical valve applications**
Jean-Jacques Darqué, Ryan McCall, Frédéric Sauvinet - Technetics Group, USA
-
- 10:30** **Low and high temperature elastomeric sealing system for valves in harsh environments**
Geoff Lewis, Xavier Dubreuil - DuPont, Switzerland
-
- 11:00** **FEA & Diagnostic Test Bench Technology. Designing Process Optimization**
Benjamin Thomas - Hutchinson, France / Paolo Bergamini - Hutchinson Gasket International, Italy
-
- 11:30** **Valve packing optimization through use of dedicated characterization test procedures and calculation rules**
Emmanuel Sauger, Hubert Lejeune, Frederic Joulain - Cetim-Centre technique des industries mécaniques, France
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SESSION 10 - Room C (first floor)

SHARING EXPERIENCE TO DEFINE THE TOTAL COST OF OWNERSHIP

CHAIR:

Bader Al-Jarallah - Saudi Aramco, Saudi Arabia

-
- 10:00** **How to select the right valve supplier: an EPCI perspective**
Wojciech Zmudzinski - McDermott, USA
-
- 10:30** **Sharing expertise sitting on both sides of the table**
Alessandro Vecchi, Raoul Gatti - IMI Orton Valves, Italy / Antonello Vago - IMI Truflo, Italy
-
- 11:00** **Valve condition & performance monitoring: driving down costs and maximising reliability & profits**
David MacDonald Anderson - Score Diagnostics Limited, United Kingdom
-
- 11:30** **What is the approach to Valve Manufacturers' quality culture by an EPC contractor?**
Tobe Tatsuya, Shoju Tokujiro - JGC Corporation, Japan
-
-

SESSION 11 - Room Colleoni (ground floor)

FUGITIVE EMISSIONS

CHAIR:

Carlos Davila - Crane Fluid Handling, USA

15:00 The numerical simulation as a powerful tool for gasket design and safety check

Michele Camposaragna, Sergio Sarti, Stefano Cavalleri - EnginSoft, Italy

15:30 Fugitive Emissions Detector Gearbox

Simone Vegetti - Rotork Gears, Italy / Tom Pawinski - Rotork Gears, United Kingdom

16:00 Innovative rotary valves monitoring system for emission detection of dynamic seals

Alessandro Panichella - Dafram, Italy / Marco Mazzieri, Daniele Taffetani - 3P Engineering, Italy

SESSION 12 - Room A (first floor)

STRATEGIES FOR OPERATIONAL EXCELLENCE THROUGH STANDARDIZATION

CHAIR:

Ray Bojarczuk - ExxonMobil, USA

15:00 Strategies to API 624 qualification

Pramod Kalyani - Kalson Engineering Solutions, India

15:30 A different approach to assess incipient cavitation on control valves: from noise considerations (IEC 60534-8-2) to vibration analysis

Alessandro Panichella - Dafram, Italy / Marco Mazzieri, Michele Montironi - 3P Engineering, Italy

16:00 Application of the Functional Safety and SIL requirements according to the IEC 61508 to mechanical equipment (valve and actuator)

Marco Simone Ghisu, Alessio Ragni - TÜV Nord, Italy

16:30 When new directives need standardization ... new resources and efficiency standards are on the road for EcoDesign

Pascal Vinzio - CEN-Comité européen de normalisation, France

Alexandre Popa - CEN Consultant, France

SESSION 13 – Room B (first floor)

END USERS' EXPERTISE AND PERFORMANCE MONITORING

CHAIR:

Ron Merrick - Fluor Enterprises, USA

15:00 **The cost to be owner and operator of valves**


Are Roger Halvorsen - Nordic Valve Services, Norway / Gudmund Vauger Brødholt - IKM Håland, Norway

15:30 **Ensuring Pressure Integrity of Valve Fitness For Service (FFS)**

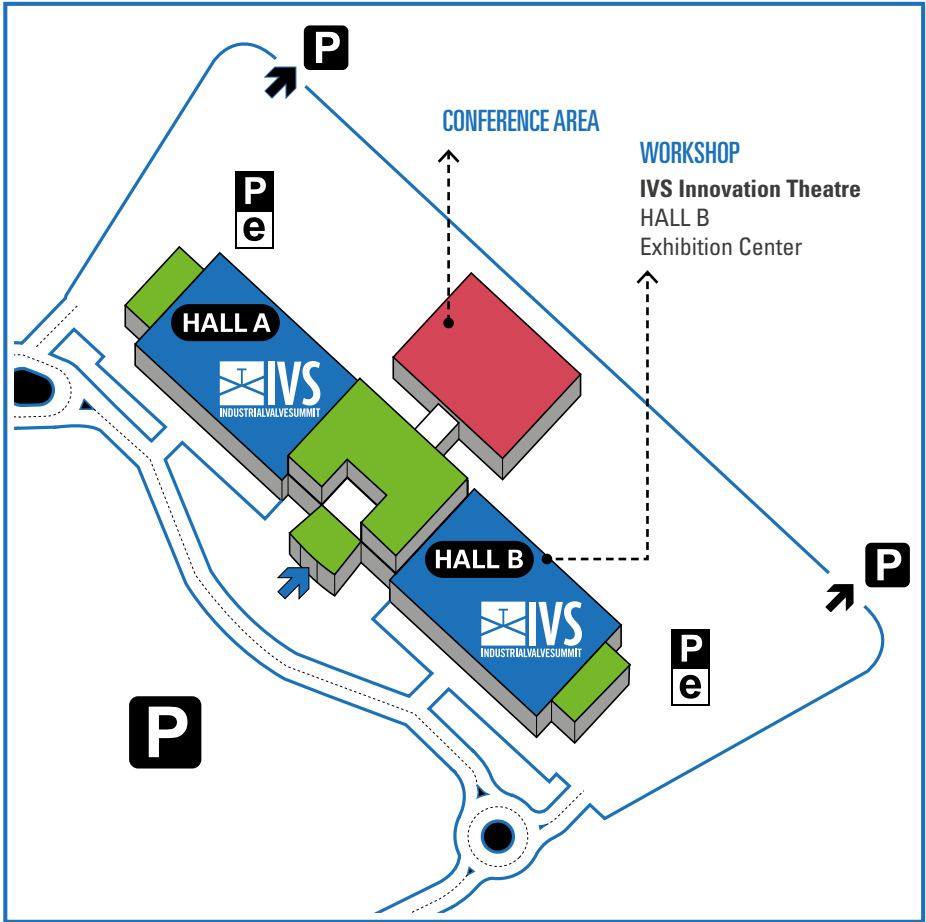
Mousa Al Harbi, Mohammed W. Tarabzouni - Saudi Aramco, Saudi Arabia

16:00 **Automated health condition monitoring for on-off valves**

Abin K. Abraham - University College of Southeast Norway, Norway /
Jeen Ann Abraham - RKDF College of Engineering, India



EXHIBITION MAP



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