



MAY 25<sup>TH</sup> 26<sup>TH</sup> 2022  
BERGAMO - ITALY



# IVS 2022 CALL FOR PAPERS

ABSTRACT SUBMISSION DEADLINE  
TUESDAY, 14<sup>TH</sup> DECEMBER 2021

LEAN & DIGITIZE  
NEW CHALLENGES FOR THE VALVE INDUSTRY

# THE EVENT

# IVS – INDUSTRIAL VALVE SUMMIT

IVS 2022 - Industrial Valves Summit will be the main event of the year regarding the valve industry business, strategies, and technologies.

IVS provides a biennial forum where industry leaders can address technical issues, introduce pioneering technology, and share lessons learned about valve technologies and flow control solutions.

If you are looking for growth in the valve technologies market, then IVS 2022 is your best event to attend.

## REASON FOR CHOOSING IVS 2022

- Interact with visitors keen to learn about latest valve technology and flow control solutions.
- An exclusive and dedicated audience.
- A public interested in all valve technologies related to design, engineering, construction, managing, operating, and maintenance.
- IVS 2022 will boost the image of your company, associating it with global valve technologies and flow control solutions' leading producers.
- Many high-quality contacts in a short space of time and at an economic cost.
- IVS is a key event that provides the opportunity to identify innovative trends for the valve industry.
- IVS provides information and a knowledge hub which is vital for managers and specialists.
- The exhibition holds a leading conference forum for integrated valve technologies and flow control solutions.
- The promotional package reports your company solutions and new products to the market.

## The growth of IVS - Industrial Valve Summit



# IVS & VALVECAMPUS

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**VALVEcampus** is the Italian Association of manufacturers of Industrial Valves and Components used in the Oil & Gas and Power Industries.

The core of the Association is represented by its **Members**: they share both the objectives and the style of the organization. They participate to the business events, add their own analytical point of view and share the results and future path to pursue.

**VALVEcampus** is the recognized **Technical Partner of IVS - Industrial Valve Summit**, since its foundation and start-up, by actively contributing to operate and manage the scientific and conference areas, offering free participation to technical sessions to all registered visitors. Training and knowledge are the strategies for improving skills and relationships for successful growth: **this is the mission of VALVEcampus**.

**VALVEcampus**, working together with **Confindustria Bergamo** and **Ente Fiera Promoberg**, will again fully support the **4th edition of IVS and is responsible** for the **Conference Program of IVS 2022**.

The VALVEcampus Technical Conference is a multi-disciplinary conference addressed to today's engineers, providing them an opportunity to learn, meet and network with all different oil and gas producing environments from all over the world.

When exhibition ends, **VALVEcampus** will continue to offer free training sessions via the **VALVEcampus Knowledge Platform**.

**All registered IVS visitors** can access to VALVEcampus Knowledge Platform for consulting a collection of technical-scientific publications and find a unique area for exchanging and sharing information in an Open Source space.

**The main purpose** of this platform is to extend the boundaries of the IVS conference contributions and let IVS become a permanent and growing knowledge tool: **"A continuous knowledge sharing platform for a successful future"**.

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# WHY SUBMIT AN ABSTRACT?

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There are **many reasons** to submit an abstract and **become a speaker** at IVS 2022 Exhibition.

- **Present your technical knowledge** to an International audience of Industry colleagues.
- **Improve your skills, compare and share experiences.**
- **Raise your company's technical profile** at a prestigious energy event.
- **Be part of the world's premier industrial valves global event** and expand your professional network for the future.
- **The abstract will be published on VALVEcampus Knowledge Platform** where all interested valve professionals will have a direct and free access to it.
- **Join the VALVEcampus Community.**

Among the themes and topics indicated, choose your favorite one and submit your abstract within Tuesday December 14<sup>th</sup> 2021.

And if you know other authors that might be willing to present a paper, encourage them to do so!

Best papers, selected by the Advisory Board, will be formally presented in the relevant Conference Session or during a specific Workshop.

Speakers will be allocated 20 minutes for live presentation.

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# THEMES AND TOPICS

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## **THEME 1: ADVANCES IN SAFE VALVE DESIGN, MATERIALS, MANUFACTURING, COATINGS AND FOCUS ON ADDITIVE MANUFACTURING**

This theme will cover new perspectives and developments in on-off / control valves' and safety devices' design, materials, castings and forgings, manufacturing processes, coatings and corrosion protection technologies. Contributions and case studies on fire testing and valve applications on hydrogen production development will also be appreciated.

A specific focus will also be included to cover case-studies and developments foreseen in the valve industry, thanks to the use of metallic parts additive manufacturing (AM) or 3D printing technologies, with relevant materials' and final products' certifications.

## **THEME 2: VALVE ACTUATION AND CONTROL**

The impact of digitalization in plant design and management, particularly in the O&G sector, is improving the implementation of "smart" technologies, amplified by the intense and increasing use of reliable field devices and safe communication networks, in support of predictive maintenance and process optimization. Valve actuation and control technologies are the main drivers and Authors are invited to bring their contributions and expectations.

## **THEME 3: FUGITIVE EMISSIONS AND VALVE SEALING TECHNOLOGIES**

Valve designers and plant operators have excellent reasons to minimize fugitive emissions in their facilities, by reducing the amount of process fluid released into the atmosphere and surrounding environment. Papers should cover today's monitoring technologies, stem sealing techniques, packing designs and other advances in optimizing valve sealing performance, with reference to applicable national codes and international standards for tests and inspections.

## **THEME 4: INNOVATION, EMERGING TECHNOLOGIES, AND FUTURE SCENARIOS**

Technological development is perhaps the most fundamental and influential driving force of the 21st century, even though it is often difficult to predict timing, pace, and impact. Due to the Global Warming the demand for H<sub>2</sub> and LH<sub>2</sub> will rapidly increase. In different parts of the world they are being built or planned many H<sub>2</sub> and LH<sub>2</sub> production plants also using existing technologies and the large experience of the LNG industry. An in-depth study is needed to understand the impact on the fitting components and in particular on the Industrial Valves required by the H<sub>2</sub> plants. These new technologies will create new opportunities and businesses, as well as new ways to handle existing challenges: the entire Valve Industry and its stake-holders are ready for this stimulating task.

## **THEME 5: INTERNATIONAL STANDARDS, SUPPLY SPECIFICATIONS, LEAN DOCUMENTATION MANAGEMENT AND REMOTE INSPECTION TECHNOLOGIES**

Large-scale projects, with complex international supply chains, rely on vendors and suppliers all over the world, with proper common and widely used Standards, Supply Specifications and Documents' review cycle, fully endorsed and accepted by End Users and EPCs.

Comparison between existing international standards and current developments of commonly adopted specifications (e.g. IOGP-JIP33), strongly required by End Users and EPCs, will also find a proper space for open discussions and presentations. Lean documentation management will be one of the key elements for success. An additional area will be dedicated to new forms of factory tests, including reliable real-time data transmission (audio, video, documents and images) with visual co-witnessed or customer remote operated assessments and inspections, which will reduce drastically wait-times, traveling costs and will maintain business continuity, thanks to the new use of Remote Video Inspections.

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# IVS / VALVE CAMPUS 2022 ADVISORY BOARD

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The **IVS / VALVEcampus 2022 Advisory Board** includes key experts representing major stakeholders (i.e. End Users, EPCs, Manufacturers, Professional Associations, Standardization, and/or Certifying Bodies). The Advisory Board will examine all submitted abstracts and select the best and most innovative papers that will be formally presented during the relevant Conference Session or a specific Workshop. The Advisory Board applies specific criteria in choosing the best call for papers: quality of the contents, focus on application, consistency with the topics.

**Maurizio Brancaleoni**, VALVEcampus President, CHAIRMAN

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**Valeria Tirelli**, AIDRO (ITA)

**Wojciech Zmudzinski**, BP AMERICA (USA), I.O.G.P.

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# ABSTRACT PRESENTATION GUIDELINE

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## ABSTRACT CONTENT

Each abstract must be submitted in English, and shall be long between 150 and 300 words. The technical paper must be in Word® format or in Adobe Acrobat® format.

A paper proposal should cover the following:

- Treat one of the themes indicated in this Call-for-Papers
- Objectives/Scope - Please list the objectives and/or scope of the proposed paper.
- Methods - Briefly explain your overall approach, including your methods, procedures, and process
- Results, Observations, Conclusions - Please describe briefly the results, observations, and conclusions of the proposed paper.

By presenting their abstract, Authors give their approval to submit it to the **IVS / VALVEcampus 2022 Advisory Board** and confirm that they will accept the results of its evaluation.

Commercial Abstracts will not be considered: neither for publication nor for presentation during the event.

**VALVEcampus** assumes no obligation for expenses sustained by authors for travel, local transportation, food and lodging.

## SUBMITTAL

When submitting your abstract please remember to include:

- Author(s)' and/or Presenter's name(s) and surname(s)
- Job function(s) & company name
- E-mail addresses
- Title of the paper

The abstract must be sent via email to:

**VIRGINIA POLITO AGAZZI**

**VALVEcampus Advisory Board Secretary**

Tel: + 39 3921857041

segreteria@valvecampus.com

**Abstract submission deadline is Tuesday, 14<sup>th</sup> December 2021.**

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# IVS 2022

## VALVE CAMPUS WORKSHOPS

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During IVS 2022, the association will include in parallel with the IVS conference, a series of workshops with focus and insights on the areas of training in the world of **industrial valves**.

These workshops, **organized by specialists of the sector**, will be free to **all visitors to IVS 2022** and will allow the opportunity to enhance their knowledge, learn new concepts and improve their professional skills.

There will be two Workshops on “Lean & digitize” and “Additive manufacturing”.

These interactive workshops will present interesting opportunities to all visitors:

- Increase their professionalism
- Share experience and know-how
- Expand the knowledge
- Discover the latest industry innovations and trends in valve design, as well as in engineering and construction.
- International network with experts and specialists

## VALVE CAMPUS

## UNIVERSITY FOR IVS

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**VALVE campus** is an Educational Agency in the traditional areas of Design, Technical Standards, Metallurgy, Sealing Systems and Auxiliary Components for Industrial Valves.

The variation between theory and practice, based on concrete cases, contributes to the development of knowledge and skills. Thanks to the various training tools, the participants will gain an immediate added value.

During the **IVS 2022** event there will be **free technical training sessions**, open to all visitors.

**Technical Trainings** improve competence, knowledge, creativity to enhance all those distinct skills of the Italian supply chain which must be understood and perceived by International Customers.

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# WORKSHOP IVS 2022

## LEAN & DIGITIZE

This workshop will be on Lean & Digitize. The global demand for energy sources is rising and changing, year after year. All **Oil & Gas stake-holders need to use new widely accepted and shared standardized procurement specifications: Lean Documentation and Digitalization will be the right solution.**

**One of the major challenges of the next decade will be the creation of standardized guidelines for the management of documentation to limit changes and variability of submitted information.** It will become essential therefore to propose and adopt technical solutions to **reduce paper documentation and related wastes, assuring original data integrity and quality.**

The actors of this process are: End-Users, EPC Contractors, Manufacturers of valves and components, Other JIPs (Joint Industry Programs), Other Associations, Certification bodies, Independent third parties, Digital providers.

The objectives of these themes are:

- **Minimize the variability** of the documentation
- **Reduce the time** to specify, interpret, implement, and verify the documentation vs. requirements.
- **Easy accessibility** of documentation, from any place, at any time.
- **Sustainability** and reduction of paper.
- **Easy transfer** of documentation to the Contractor and End-User.
- **Compliance** and **integrity** of the information.

Invited papers are welcome to use a common language to enable efficient digital flow of documentation for:

- Detailing standard technical libraries
  - Digitalization of the standard solutions through prototypes with basic functionalities
  - Discussion of lessons learned and improvement actions for full implementation
  - Updates to JIP Guideline
  - Detailed cost / benefit analysis
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# WORKSHOP IVS 2022

## ADDITIVE MANUFACTURING

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This is another important technological advancement made possible by the transition from analog to digital processes. In recent decades, communications, imaging, architecture and engineering have all undergone their own digital revolutions. Now, AM can bring digital flexibility and efficiency to manufacturing operations.

Additive manufacturing uses data computer-aided-design (CAD) software or 3D object scanners to direct hardware to deposit material, layer upon layer, in precise geometric shapes. As its name implies, additive manufacturing adds material to create an object. By contrast, when you create an object by traditional means, it is often necessary to remove material through milling, machining, carving, shaping or other means.

Although the terms “3D printing” and “rapid prototyping” are casually used to discuss additive manufacturing, each process is actually a subset of additive manufacturing.

While Additive Manufacturing seems a new subject to many, it must be considered that it has actually been around the industry for many years. In the right applications, AM delivers a perfect combination of improved performance, complex geometries and simplified fabrication. As a result, many stimulating opportunities will be offered to designers and engineers, also thanks to the dedication of those pioneers that have already embraced Additive Manufacturing.

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