

# 14<sup>th</sup> International Conference on Pressure Surges Eindhoven, The Netherlands; 12th - 14th April 2023

## Paper Categories

The usefulness of any conference to delegates is directly related to the quality of the papers presented. Papers that bring together co-authors from different industries or from different sectors of an industry, or from joint academic/industrial teams, will be especially welcome. When choosing papers from the abstracts offered, the Technical Committee will consider technical quality, originality, relevance and likely interest to delegates. With this background, papers are invited in three categories:

- practical experiences ("industrial papers")
- research advances ("research papers")
- thought-provoking ("forum papers")

*Please also see the Conference Themes page for more information*

### **Industrial Papers**

A major purpose of the Conference is to foster trans-industry, trans-national and trans-functional dissemination of best practice relating to transient analysis. The Conference aims to bring together practitioners and designers from a wide range of industries to share experiences and hence expertise for future implementation. The Committee invites papers addressing issues such as:

- Good design practices, identification of specific pressure surge issues and recommendations for surge alleviation and control strategies.
- Validation to justify or test the capabilities of surge control devices or simulation software, from both suppliers and users.
- Case studies of surge incidents and innovative surge protection strategies.
- Field or laboratory test results that can be used by the community to evaluate software or product performance data.
- Practical design information (e.g. for surge alleviation devices) or procedures of direct value to system designers and analysts.
- Non-conventional application of surge analysis software (e.g. during commissioning or normal operation).
- How risk management of fluid transients has been integrated explicitly with pipe system design.

Submissions in this category will be reviewed by one referee. Papers should be of a technical nature and must not contain direct advertising or unsupported claims.

### **Research Papers**

To further technical and scientific progress in unsteady flow analysis and to raise awareness of industrial practitioners to the 21st century developments, the Committee invites papers addressing, for example:

- Improved simulation of surge relief or control strategies or verification models.
- Advanced applications (such as leakage detection).

- Complex interaction phenomena such as multi-phase or cavitating flows, gas release, fluidstructure interaction or flow-induced vibrations.
- Fundamental issues in numerical methods or fluid behaviour (e.g. damping in unsteady flows).
- Application of new techniques to unsteady flow issues.
- Plastic pipes and flexible hoses.
- Gas pockets in liquid systems.
- Application of inverse methodologies to complex networks.

Submissions in this category will be refereed to normal scientific paper standards by two independent referees drawn from an international panel of recognised authorities in fluid transients

### **Forum Papers**

The conference will feature interactive, educational, informal and lively panel sessions with discussion/debate forums led by subject experts with a renowned talent for stimulating enthusiastic discussion and thought-provoking innovation. These forums have played increasingly important roles in successive conference in the series. Papers are invited that are anecdotal, historic, opinionated, philosophic, provocative, speculative, and the like. Submissions in this category will be assessed by the Technical Committee.

### **Conference Proceedings**

The conference papers will be professionally published as a soft bound volume, a copy of which will be included in the registration fee together with an electronic copy containing the papers in digital form. Additional copies of the proceedings will be available for sale after the conference. All papers published and presented at Pressure Surges conferences will have the abstract available online with Elsevier. This promotes high visibility to a global audience, fast online dissemination of content and increased exposure and profile for authors.

### **Best Paper Award**

TU/e is pleased to announce that a prize of 500 Euros will be awarded for the best paper at the Conference. The winner will be chosen by the Technical Committee. The prize is offered thanks to the kind sponsorship of Deltares, Delft, The Netherlands.

### **Important – Authors Please Note**

- Papers must be original, unpublished, and not pending publication elsewhere.
- The author submits each paper on the understanding that it will be independently reviewed. If the paper is accepted, the author must attend the whole conference to present the paper and discuss with delegates. The presenting author is entitled to a 25% discount on the full conference fee.
- Papers, and presentation at the conference, must be in English.
- Papers should be no longer than 15 printed A4 pages. There is no minimum length.
- The title should be appropriate to the scope of the Conference and should accurately reflect the content of the paper.
- TU/e will supply guidelines for the preparation of manuscripts. To be included in the proceedings, papers must conform to these guidelines.
- The copyright of accepted papers must be transferred to the publisher. Authors who wish to retain copyright must notify the organisers when submitting their Abstracts. The transfer agreement includes provision for Open Access.

- TU/e may use the authors name, presentation title and materials for promoting delegate attendance at the conference

All authors must register and pay by the **12 March 2023**. Registrations processed after this date will be charged at the full delegate rate and manuscripts may be excluded from the printed proceedings.