

TFWG Meeting at the World Conference 2023-Vienna

23rd August 2023 (11 a.m.)

Agenda:

1. Previous activities
2. Chairmanship transfer
3. Monograph
4. Thematic symposium and Award
5. On line short course
6. Transition from Working Group to Technical Committee
7. Advisory Board Extension
8. AOB

Meeting attended by:

Moez Louati, Silvia Meniconi, David Ferras Segura, José M. Adriasola V., Janek Laanearu, Arris Tjisseling, Bruno Brunone, Caterina Capponi, Filomena Maietta, Nuno Martins, Alexandre Soares, TC Che, Huang Feng Duan, Yifan Zheng, Ostad Mirza Therani, and Weijia Yang.

1. **Previous activities:** Moez Louati provides a summary of past activities: organization of two on-line short courses and Special Sessions on Transient Flows during the IAHR World Congresses.
2. **Chairmanship transfer:** Moez Louati transitions to the role of past-chair member, while Silvia Meniconi assumes the position of current chair and David Ferras becomes the vice-chair. Silvia offers a succinct overview of her objectives, emphasizing continuity from the previous chairmanship and enhancing collaboration among members for research and project proposals.
3. **Monograph** inspired by the IAHR Short Course on Transient Flows (November 2021): we have received four chapters, with another potential five yet to be submitted. We've set a firm deadline for the 1st of February 2024. José M. Adriasola V. will oversee the collection of these chapters.
4. **Thematic Symposium** - The specific time, place, and frequency are yet to be determined.
 - a. Draft a proposal for the bidding process (by David).
 - b. Potential Topics Include:
 - i. Leakage Detection Methods (by Silvia)
 - ii. AI for Transient Flows (by Moez) & Experimental Methods (by David)
 - iii. Pipeline Design and Protection (by José)

- iv. Modelling and Software for Transient Flows (by José). On this potential topic, Silvia suggested that a short course focusing on modelling and software would be highly beneficial.
 - c. David proposed to consider collaboration for joint symposiums with other Technical Committees or associations.
 - d. The symposium will be based on abstract submissions.
 - e. Introduce a "Best Presentation" award for students. Example: Summarize your research in 3 minutes, as FameLab competition. This will need discussion with the IAHR awards committee.
 - f. Consider implementing a minimal fee for participation, if feasible.
5. **Online Short Course:** Possible topic: "What Lies Beneath Water Hammer Software?"
- a. Understanding the underlying assumptions.
 - b. Exploring requirements, needs, and standards.
 - c. Guidelines for effective software modelling.
 - d. Delving into cavitation, particularly when large vapor cavities are expected.
 - e. Consider preparing experimental tests. One idea could be to produce experimental data, allowing various software companies to benchmark their numerical results against these experiments. A similar approach was adopted in the WDSA conference, aptly dubbed a "battle."
- Note:* José, and Yifan Zheng from Bechtel will investigate software needs and requirements.
5. **Transition from Working Group to Technical Committee:** A primary advantage of this transition is the standard IAHR session inclusion in IAHR World Congresses.
6. **Advisory Board Extension:** We're considering expanding the board to include representative companies and industries to broaden our perspective. José has already had a potential candidate in mind.
7. **AOB**
- a. **Members:** There's a suggestion to extend an invitation to an expert specializing in transient surface flows. José has already had a potential candidate in mind.
 - b. **Promotion of the Group:** One avenue to enhance our group's visibility might be engaging with the organizers of Water Hammer conference that was recently hosted in China (proposed by TC Che).