TFWG Meeting at the WC 2022-Granada

19th June 2022 (3 p.m.)

Agenda:

1. Postpone the change of chairperson to the next IAHR world congress to be held in Vienna in 2023
2. Add José M. Adriasola V. to become LT member of the Transient Flows working group
3. Organize the air water interaction webinar online
4. Postpone the organization of the panel session on unsteady-state damping until we can do it face to face.
5. Start Theme-based symposiums (face to face).
6. Monograph on Transient flows based on the lectures from the short course on Transient Flows.

Meeting attended by:

Moez Louati, Silvia Meniconi, Dídia Isabel Cameira Covas, David Ferras Segura, José M. Adriasola V., Diego Norberto Bottelli, Mohamed Houcem Eddine Ben Arab, Valentina Marsili, and Janek Laanearu.

Minutes:

1) Regarding the first topic, all people agreed to keep Dr. Moez Louati as chair of the working group since the next IAHR world congress will be unusually next year and not after two years due to Covid.

2) Regarding the second topic, all the attendees agreed that José M. Adriasola V., from Bechtel Corporation, can become a member of the working group, perfectly in line with the IAHR vision of increasing the relationship with the industry.

3) Regarding the third topic, from the discussion between Jose Vasconcellos Neto, Moez Louati, Arturo Leon, Didia Covas, Musandji Fuamba, David Ferras, Ling Zhou, and Silvia Meniconi, had on May 12, the initial thoughts of the webinar format could be as follows:

   - History & Background (why such problems are important)
   - Basic theory and models (No derivations, only indicating the fundamental theory/equations for particular air/water system, and the main models used)
   - Air/water interaction in pressurized flow systems (here mainly related to water supply (and possibly sewage rising mains)). This session will introduce case studies and problems.
   - Air/water interaction in designed-to-be free surface flows (or gravity driven flows) systems (those systems sometimes become pressurized and cause issues which will be discussed). This session will introduce case studies and problems.
   - Part I) Mitigation for pressurized flows (e.g. air valves, process of filling pipes…etc)
   - Part II) Mitigation for designed-to-be free surface flows

   All the attendees agree that the webinar will last for one week and will be held online by zoom. The webinar will be tentatively organized in March 2022. We wait for Jose Vasconcellos Neto to come back to us and confirm the speakers and lectures.

4) Regarding the fourth topic, the initial idea of Panel Session on 'Damping' was given by Professor Alan Vardy. The working group agreed that the panel session could be held on-line in 2 days, 2 hours each. However, the attendees agree to postpone the decision on panel

session during the following meetings because of the large number of initiatives of the working group. In addition, we agreed that it would be much better if we could organize the panel session on Damping via face-to-face mode.

5) Regarding the fifth topic, the chair proposed to sponsor a symposium on leak detection. The attendees agree with enthusiasm to this initiative. A university or a company can organize this symposium, to be held next winter (face to face mode). The idea is to involve several companies working on leak detection. The vice-chair proposed to sponsor a further symposium on transient modelling.

6) Regarding the sixth and last topic, the attendees agreed to edit a monograph recruiting chapters from the 13 speakers of the short course on Transient Flows. Each chapter can consist of 15 pages. The attendees agreed that each member can manage three chapters. We will start organizing the monograph from September-onwards with half an hour meeting every 2 weeks. José M. Adriasola V. will take care of the scheduling meetings and providing comments from a practitioner point of view. We target to have the monograph ready within a year. The vice-chair informed the attendees that there is a IAHR task force on monographs to which we can ask the template to follow.