

IAHR Experimental Methods and Instrumentation Committee

Minutes of the EMI Leadership Team meeting, Wednesday 28th February 2024, 15:00 Central European Time (14:00 Lisbon Time, 11:00 Buenos Aires and Brasilia Time) – Online

1. Information

Massimo Guerrero presented the proposal of a new possible Working Group on “bedload characterization and transport estimation with non-conventional tools”, as suggested by Prof. Marian Muste during an informal meeting in Wien (IAHR World Congress). Massimo asked for interested members among the LT and beyond to join this WG and eventually contribute in leading this initiative. Marie Burckbuchler asked about the tasks and objective of such a WG. Massimo reported about Marian’s suggestion of contributing to IAHR White Papers Series, as can be found here (<https://www.iahr.org/index/detail/60>), and organizing a WG’s Special Session in the IAHR World Congress.

Manousos Valyrakis presented the initiative for a special journal issue, to be published in Springer’s journal Acta Geophysica, Official Journal of The Institute of Geophysics of the Polish Academy of Sciences (<https://link.springer.com/journal/11600/updates/18579618>), with title “Turbulence and transport measurements and instrumentation in earth surface sciences and hydro-environment engineering”. This special issue is well defined within the field of interest of EMI. The guest-editors group is being defined with contributions from the LT members. Michael Nones communicated that the proposal is very welcome by Acta Geophysica Editorial Board. Manousos Valyrakis will soon write to gather interest and suggestions, and possible authors and guest-editors.

2. Initiatives beyond IAHR

Margaret Chen proposed to prepare a shared document to incubate ideas for projects around the concept of data/instrument/knowledge sharing. This is aimed at funding and expanding existing activities (e.g., W.A.T.E.R. summer school, YP Challenge), in the wake of EMI-LT objectives and the results of EMI survey to the IAHR community. Michael Nones will prepare and communicate the sharing of this document. Regarding that, MSCA-DN (Doctoral Networks) <https://marie-skłodowska-curie-actions.ec.europa.eu/actions/doctoral-networks> is among the envisaged calls for projects. Tais Yamasaki reported about the



possibility of bringing Prof. Rebecca Hodge, from Durham University, to share her experience on MSCA-DN with the LT members.

Massimo Guerrero and Slaven Conevski reported about an existing initiative regarding ADCP data sharing. One is led by Chris Tomsett from the University of Southampton (C.G.Tomsett@soton.ac.uk; <https://www.southampton.ac.uk/people/5z9nj7/mr-christopher-tomsett>) and another one is under development by Slaven himself. These should complement the ADCP Monograph (see point 4).

3. EMI initiatives

Marie Burckbuchler and Anne Pallares presented the next edition of W.A.T.E.R. Summer School, which will take place in Strasburg, July 1-5, 2024. The official webpage is online (<https://water.sciencesconf.org/>) and registrations have just opened. 3'000 euro funding was offered by local sponsors to support the summer school. The overall program, fieldtrip and local committee/lecturers are defined, the technical program and experimental layouts are broadly defined, and some adjustments may follow depending on available/invited external lecturers.

The technical program will follow the positive experience of the 7th edition at TUM. The theoretical background will be provided on site while preparing/performing the hands-on experience, depending on participants specific needs, whereas preliminary lessons in the classroom will be limited to a minimum.

Rui Aleixo will soon advertise the 8th edition in the W.A.T.E.R. Summer School webpage (<https://watersummerschool.wordpress.com/>), including the link for registration.

All LT members are invited to disseminate the initiative towards possible participants. To this objective, a prepared flyer will be made available very soon by Marie.

4. IAHR events and initiatives

Michael Nones reported about the YP Challenge organization that will take place online during coming March-May 2024 (<https://www.iahr.org/index/detail/1220>). Massimo Guerrero briefly presented the challenge developed together with Marie Burckbuchler, concerning the use of UVP in a laboratory layout to determine the drag of a cylinder in uniform flow.

Massimo Guerrero suggested to consolidate the EMI-LT contribute to this initiative by proposing a new challenge/experimental technique/layout every year, relying on different expertise available within the LT, rather than repeating the same challenge for years. In the future, this may lead to an inventory of layout/dataset/presentations of challenges available on-line for YPN. Tais Yamasaki commented that the focusing of the Challenge on different techniques and common dubious/erroneous assumptions regarding their use would be of interest for non-experts.



Massimo Guerrero reported about the state of EMI-LT contributions to the IAHR Water Monograph series (<https://www.iahr.org/index/detail/659>) and promoted the series by soliciting new Monograph projects to be submitted by LT members. The monograph “Sediment fluxes investigation by means of the Acoustic Doppler Current Profile (ADCP)” by Guerrero et al. is slowly proceeding (30/100 pages written draft).

5. Summary of decisions taken

Manousos Valyrakis will write to gather interest and suggestions, and possible authors and guest-editors for the special issue “Turbulence and transport measurements and instrumentation in earth surface sciences and hydro-environment engineering”.

Michael Nones will prepare and communicate the sharing of a document to incubate ideas for projects around the concept of data/instrument/knowledge sharing.

Marie Burckbuchler will send a flyer to promote the 8th edition of the W.A.T.E.R. Summer School, with information for applicants to register.

Rui Aleixo will update the W.A.T.E.R. Summer School webpage with the 8th edition information and include the link for registration.

28th February 2024

Massimo Guerrero, EMI Chair

Margaret Chen, EMI Vice-Chair

Rui M.L. Ferreira, EMI Past Chair

All participants reviewed the minutes and agreed with its content.



Annex: list of participants to the meeting

LT members

Rui Aleixo

Marie Burckbuchler

Slaven Conevski

Michael Nones

Isabella Shalko

Manousos Valyrakis

Tais Yamasaki

Massimo Guerrero, EMI Chair

Margaret Chen, EMI Vice-Chair

Non-LT Members

Anne Pallares