

IAHS Bureau: International Commissions (IC)

President Name: Elena Volpi

International Commission: Statistical Hydrology ICSH-STAHY

Names of participants and role(s) of each officer:

| Role | Name of person | Activities/Responsibilities (e.g. communication) |
|-----------------|--------------------|---|
| President | Elena Volpi | Coordinate all the activities of the Commission being the front figures, conceive new initiatives and collect members around them |
| Past-President | | |
| President-elect | Krzysztof Kochanek | |
| VP | Eleonora Dallan | Communicate and promote the activities of the Commission with other local, national or international organizations/institutions |
| VP | Simon Papalexiou | |
| VP | Sahani Pathiraja | |
| Secretary | Svenja Fischer | Manages the web site, group members and mailing list; supports technically the dissemination activities and the STAHY Best Paper Award organization |
| ECC | Jew Das | Coordinates activities with the ECC and organizes the early career daily course at the annual workshop |

Which UPH(s) does the Commission contribute to? (No 1-23: check <https://www.tandfonline.com/doi/full/10.1080/02626667.2019.1620507>)

Time variability and change - 1. Is the hydrological cycle regionally accelerating/decelerating under climate and environmental change, and are there tipping points (irreversible changes)?

Space variability and scaling - 6. What are the hydrologic laws at the catchment scale and how do they change with scale?)

Variability of extremes - 9. How do flood-rich and drought-rich periods arise, are they changing, and if so why?

Measurements and data – 16. What is the relative value of traditional hydrological observations vs soft data (qualitative observations from lay persons, data mining etc.), and under what conditions can we substitute space for time?

Modelling methods - 20. How can we disentangle and reduce model structural/parameter/input uncertainty in hydrological prediction?

Interfaces with society - 21. How can the (un)certainly in hydrological predictions be communicated to decision makers and the general public?

Which Theme and WG of HELPING Decade the Commission contribute to? (See current status here <https://iahs.info/Initiatives/Topic-for-the-Next-IAHS-decade/helping-working-groups/>)

Theme 1:

- 1.1 REHYDRATE - REtrieve historical HYDRologic dATa & Estimates
- 1.6 Comparative understanding of runoff generation processes
- 1.11 Hydrologic Design - Solutions & Communication

Theme 2:

2.2 Drought in the Anthropocene

Theme 3:

3.2 Outreach, Communication & Science Interfaces

How – in which form will the results be presented? (collaborative paper, workshop, etc)

Collaborative manuscript, report, summer courses and workshops

Paper within HELPING-WG published (contribution by most ICSH officers):

Fischer et al. (2024). Hydrologic Design in the HELPPING decade. DOI - 10.1080/02626667.2024.2436634

Work plan for 2025

| | |
|---------------------------------------|---|
| PERIODICAL COMMISSION WORKSHOP | No workshop planned for 2025, as the IAHS General Assembly will fall into that time period. A commission meeting is planned to take place at IAHS 2025. Workshop for 2026 planned to take place in Victoria Falls, Zimbabwe. Planning has started. |
| COMMUNITY PAPER | No community papers planned for next year within ICSH, joint community paper with ICWRS (contact: Svenja Fischer) to be submitted in September 2025 to HSI |
| DIGITAL WATER GLOBE | Profiles of officers mostly uploaded, continuous contribution with publications |
| OTHER INITIATIVES | 2025 STAHY Best paper Award assigned to Eric Sauquet, INRAE, France; Margaret Shanafield, Flinders University, Australia; John C. Hammond, USGS, USA; Catherine Sefton, UK Centre for Ecology & Hydrology, UK; Catherine Leigh, Queensland Government, Australia; and Thibault Datry, INRAE, France for the paper: Sauquet, E., Shanafield, M., Hammond, J.C., Sefton, C., Leigh, C., & Datry, T. (2021). Classification and trends in intermittent river flow regimes in Australia, northwestern Europe and USA: A global perspective. Journal of Hydrology, 597, DOI: 10.1016/j.jhydrol.2021.126170 Re-Submission of a COST Action proposal (HYDROSTAKE) with contribution from many ICSH officers and members on the topic of hydrologic design. |

Guidelines for filling the Workplan:

“PERIODIC COMMISSION WORKSHOP”

This workshop is organized by the Commission. It should be an IAHS event, not a session during a conference. It can be co-organized with other Commissions or other organizations. In the latter case the role of IAHS should be clearly identifiable in the organization.

Typically, such workshops have an annual frequency, have a relatively small number of participants (in the range of 40-100), and are particularly precious for collecting the community and focusing on common and emerging research topics.

In the work plan table are expected information about the Commission Workshop.

If the Commission has already finalized the organization, the webpage link of the workshop and the date and the venue should be specified. If the Commission has just started to plan and organize, the date and venue or the available information should be specified. If the Commission recently held the workshop, few summary information should be included in the table and the report link or the pdf should be provided.

The report format is simple and described below:

First page: Commission name, title of the workshop, date, venue, Group Picture of the event

Second page: Statistical summary of the workshop: number of participants, Countries, number of oral presentations, number of posters (if they were present).

From the third page: Scientific Program

Last page: list of participants (EDI?)

“COMMUNITY PAPER”

The final aim of the Commission is to shed light on research topics related to the Commission as well. Collecting the community and working together the expected outcome is to provide a community paper that summarizes milestones or crucial emerging topics.

In the work plan table, some information on the community paper status are expected. For instance, it would be useful to know if the commission has been planning the community paper, the topic, authors, the percentage of development, and when it is expected to be submitted. This information is crucial for coordinating such activity with the HSJ Editors.

You can find some examples here:

MOXXI

CANDHY

UPH

“DIGITAL WATER GLOBE”

As you know the DWG is finally active: <https://dwg.smhi.se/dwg/> and we are looking forward to receiving the contribution from the IAHS community on case-studies and links to data and IAHS publications.

Since our community is shaped by the Commissions, Committees and Working Groups we invite you to advertise the DWG and include all the officers' Personal profiles in the visualisation tool (linked to other items).

The information requested in the table is the number of items that you plan to include in the DWG during the next months and the number you did in the last period.