

## IAHS Bureau: International Commissions (IC)

**President Name:** Paolo Porto

**President-Elect Name:** Sergey Chalov

**International Commission:** ICCE

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

Role	Name of person	Activities/Responsibilities (e.g. communication)
President	<b>Paolo Porto</b>	Coordinate all the activities of the Commission, being the front figures, conceive new initiatives and collect members around them
President-elect	<b>Sergey Chalov</b>	
VP	<b>Allen Gellis</b>	Communicate and promote the activities of the Commission with other local, national or international organisations/institutions
VP	<b>Yuri Jacques da Silva</b>	
VP	<b>Peter Molnar</b>	
Secretary	<b>Michal Habel</b>	Manages the website, group members and mailing list; supports technically the dissemination activities
ECC	<b>Anatoly Tsyplenkov</b>	Coordinates activities with the ICCE and organises 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>)

3. What are the mechanisms by which climate change and water use alter ephemeral rivers and groundwater in (semi-) arid regions?

8. Why do streams respond so quickly to precipitation inputs when storm flow is so old, and what is the transit time distribution of water in the terrestrial water cycle?

10. Why are runoff extremes in some catchments more sensitive to land-use/cover and geomorphic change than in others?

12. What are the processes that control hillslope–riparian–stream–groundwater interactions and when do the compartments connect?

**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. HELPING with global and local interactions

### Work plan for 2025

<b>PERIODICAL COMMISSION WORKSHOP</b>	September 17–20, 2026, in Como (Italy): The Symposium, organised by Pavia University (Italy), will host the meeting of the International Commission on Continental Erosion (ICCE) of the International Association of Hydrological Sciences (IAHS). The general topic will be
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	<p><i>"Sensitivity of erosion and sediment transport to recent climate change"</i>. Nearly 80 participants are expected. The scope encompasses the reconstruction and measurement of past and present-day processes, the attribution of observed changes to changes in hydro-meteorological forcing, and modelling studies on future developments based on climate projections.</p> <p>Event schedule:</p> <ul style="list-style-type: none"> <li>• Sep 16th: Travel; ice-breaker meeting in the evening</li> <li>• Sep 17th-19th: Scientific meeting with oral and poster presentations and ample time for discussion.</li> <li>• Sep 20th: Excursion (bus, packed lunch) to one of our study areas around Lake Como, home journey.</li> </ul> <p>On the last day of the conference programme, an open meeting of the ICCE Presidium was planned. The topics to be decided upon are:</p> <ol style="list-style-type: none"> <li>1. Presentation and selection of the location of the future ICCE in 2028 and 2030 Symposium. Candidates will be considered: <ul style="list-style-type: none"> <li>- Eidgenössische Technische Hochschule Zürich (Switzerland),</li> <li>- University of Muğla Sıtkı Koçman (Türkiye)</li> <li>- Belgrade University (Serbia)</li> </ul> </li> <li>2. Organization of the ICCE school for young people (online)</li> <li>3. Rules of membership in ICCE</li> </ol> <p>The event webpage is available: <a href="https://www.unipv.it/icce2026">https://www.unipv.it/icce2026</a> Main local organisers are: Michael Maerker</p>
<b>COMMUNITY PAPER</b>	<p>Special issue <i>"Sensitivity of erosion and sediment transport to recent climate change"</i> in HSI journal as a follow up of ICCE 2026 conference</p>
<b>DIGITAL WATER GLOBE</b>	<p>At least two members of the commission's presidium has registered his profile on DWG.</p>
<b>OTHER INITIATIVES</b>	<p><b>1. The IAHS Remote Sensing Workshop – River Sediment Dynamics</b> was organised from February 18–21, 2025, online. Over 500 registered participants.</p> <p>This four-day online workshop and young-scientist school (18–21 February 2025, UTC +3) focused on the application of remote sensing techniques to understand large-river sediment transport and dynamics</p> <p>Program Highlights:</p> <p>Dr. Anirban Mukhopadhyay (Kazimierz Wielki University, Poland) Unveiled advanced remote sensing tools—SAR interferometry, Landsat + Sentinel imagery, NDWI/MNDSSI indices, and AI—to track sediment transport and geomorphological changes in the Ganges</p> <p>Prof. Sergey Chalov &amp; Kristina Prokopeva (MSU, Russia) Demonstrated workflows using Google Earth Engine to map suspended sediment concentrations across the Lena, Kolyma, and Selenga basins via calibrated optical data</p>

Dr. Alexander Osadchiv (Institute of Oceanology, Russia)  
Examined river plume formation and sediment fate in coastal seas using satellite imagery and numerical models

Prof. Edgardo Latrubesse (UFG, Brazil)  
Provided a hydro-geomorphological approach using remote sensing to assess channel–floodplain interactions, sediment budgets, and connectivity in large rivers

#### Organizers & Support

Convened by Sergey Chalov (MSU) and Anatoly Tsyplenkov (Landcare Research, NZ), the event was backed by the Russian Ministry of Science, the V. Potanin scholarship, and the ICCE–IAHS

Details: <https://hydrogeochem.ru/iahsworkshop> The lectures are here - <https://www.youtube.com/@megapolis-yss>

**2. International conference “Sediment and Pollutants Transport in River Catchments: Radionuclides and Fingerprinting Techniques Applications for Assessment, Monitoring and Risk Prevention”,** held in Astana (Kazakhstan) will be organised from 17 to 21 November 2025. The event will focus on sediment redistribution, source identification using radionuclide tracers (e.g.,  $^{137}\text{Cs}$ ,  $^{210}\text{Pb}_{\text{ex}}$ ,  $^7\text{Be}$ ), and practical applications of fingerprinting techniques in various catchments worldwide.

The conference brings together leading researchers to address challenges related to land use, agriculture, and industrial impacts—especially relevant for Central Asia. Presentations and proceedings will highlight recent advances in sediment tracking, risk assessment, and environmental monitoring methods.

The event is organised by: the Kazakhstan branch of the Lomonosov Moscow State University; the Lomonosov Moscow State University Faculty of Geography; IAHS-ICCE; WASWAC;

Details: <https://sediment.ru/page69546043.html>