ROLES OF HYDRO IN THE GLOBAL RECOVERY

International Conference and Exhibition
Strasbourg, France ~ Palais de la Musique et des Congrès
25 to 27 October 2021

Organized by:
THE INTERNATIONAL JOURNAL ON
HYDROPOWER & DAMS

Supporting organizations include:

Regular updates will be posted on our website, and published in Hydropower & Dams
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HYDRO 2021 MISSION AND SCOPE

STRASBOURG AS HOST CITY

Strasbourg is an ideal meeting point for discussions on hydropower, located on the west bank of the Rhine (a river rich with hydropower), which forms the border with Germany, and is very close to the Swiss border. It is the capital of the Grand Est region of France (formerly known as Alsace), and the seat of the European Parliament. More importantly for HYDRO 2021 delegates, it lies in the heart of one of the major hydropower regions of Europe.

The culture, architecture and cuisine reflect a blend of French and German influences.

Canals run through the picturesque centre of town, and there are many historical sites to be visited, as well as fine art museums, and the striking gothic cathedral. Just outside town there is a magnificent landscape of vineyards, where the ‘Alsace wine route’ begins.

MISSION AND SCOPE

The focus of the conference will be on the impact of hydropower worldwide, and optimizing its ongoing contribution to progress and development, particularly in the post-pandemic recovery period. Major renewable energy policy drivers, such as the AU, IRENA, IEA, the EU and the IFIs have agreed that there will be a need for vast amounts of new hydro and pumped-storage, in the move to achieve a more sustainable future, with a greater share of all renewable energy sources, but especially hydropower.

Key topics to be covered are listed on the page opposite.

The French hydropower and dam industry welcomes the event, and the extensive experience of supporting organizations EDF and CNR, both within France and abroad, will be well reflected in the programme, and on the study tours.

COLLABORATION AND CO-LOCATED EVENTS

Professional associations such as ICOLD and the International Energy Agency, as well as the World Bank, will lead some of the technical sessions.

- Itaipu Binacional is planning to hold its fifth Global Hydropower Operators’ Round Table, giving operators of major powerplants an opportunity to exchange experience on operational issues and maintenance.
- A ‘Design a small hydropower project in one day’ workshop will be held prior to HYDRO 2021. This series of extremely successful workshops, led by Prof David Williams and Gordon Black, of Learning Hydro, UK, and sponsored by Gilkes, have been held at previous HYDRO, ASIA and AFRICA events.

CUTURAL AND TECHNICAL TOURS

Three post-conference study tours are being planned, together with EDF and CNR, which will give delegates the opportunity to visit some low-head hydro projects nearby on the Rhine, an important control centre, a hydro scheme under construction, and several high-head pumped-storage plants, as well as run-of-river schemes on the Rhone.

The tours will give the opportunity for delegates to learn about French expertise with upgrading and powerplant extensions, state-of-the-art control, and environmental enhancement. More details of the tours will be announced on our website shortly.

As always, a local excursion for all, with lunch, to view some of the most picturesque parts of Strasbourg, will be offered on the day preceding the conference, on 24 October.

Then a three-day package for accompanying persons has been organized, which will take in a tour of the European Parliament, the Alsatian Museum, a winery, the picturesque village of Obernai, a chocolate museum, the Haut Koenigsbourg castle, and of course some delicious lunches together.
**CONFERENCE TOPICS**

Abstracts are now invited on the themes set out below, or related topics. Please note these are not final session topics; those will be determined later when papers have been selected. If you would like to submit an abstract on a relevant topic for the industry which is not listed below, please do so. Please feel free to suggest special sessions or workshops, which can also be considered at this stage, either as part of the programme or as side event.

<table>
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<th>Topic</th>
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<td><strong>Future developments</strong></td>
<td>The role of hydro in the post-COVID recovery</td>
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<td>Hydropower integrated with other RE systems</td>
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<td>Identifying development opportunities</td>
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<td>Planning and design, including planning tools</td>
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<td>Artificial intelligence and computer learning</td>
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<td>The need for flexible grid systems</td>
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<td><strong>Transboundary projects</strong></td>
<td>Project structuring and financing</td>
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<td>Joint research and planning for cross-border schemes</td>
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<td>Responsibilities for safety and hazard risk</td>
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<td>Environmental aspects of transboundary projects</td>
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<td>Viewpoints from the development banks</td>
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<td>Technical issues, including transmission lines</td>
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<td><strong>Project financing and structuring</strong></td>
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<td>The shift from BOOT to PPPs</td>
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<td>Company, project and country risk management</td>
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<td>Concession agreements</td>
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<td>Legal, contractual and insurance issues</td>
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<td>Valuing full economic benefits and liabilities</td>
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<td><strong>Dealing with hazards and risk</strong></td>
<td>Adapting management to address challenge of a pandemic</td>
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<td>Experience with climate adaptation strategies</td>
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<td>Climate-resilient infrastructure and projects</td>
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<td>Challenges of seismicity, landslides, extreme floods and GLOFs</td>
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<td>Warning systems, exclusion mapping and evacuation plans</td>
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<td><strong>Civil engineering</strong></td>
<td>New approaches to design and construction</td>
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<td>Refurbishment and retrofitting of civil works</td>
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<td>Materials for dams</td>
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<td>Challenging sites (geological conditions, remote access, extreme climate, etc)</td>
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<td>Tunnels and underground works</td>
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<td>Dam and hydro plant safety; design aspects and monitoring systems</td>
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<td>Cyber security</td>
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<td>Public safety around water infrastructure</td>
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<td>Electronic and physical security of gates and spillways</td>
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<td>The role of pumped storage for intermittent energy sources</td>
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<td>Ancillary benefits of pumped storage</td>
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<td>Innovative pumped-storage projects</td>
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<td><strong>Hydraulic and electrical machinery</strong></td>
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<td>Smart systems to improve efficiency</td>
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<td>Hydro plant operation</td>
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<td>Timely refurbishment</td>
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<td>Strategic integration of environmental, social and governance aspects</td>
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<td>Post-implementation socio-economic assessments</td>
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<td>Training programmes</td>
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<td>Design solutions for siltation and erosion</td>
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<td>Catchment area management</td>
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<td>Young professionals’ research in sedimentation</td>
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- Please remember that submission of an abstract implies a willingness to attend to present it, and so all relevant permissions should have been sought to present the work. In the very unlikely event that the event should again take place online, your commitment to present the paper (pre-recorded) should still stand.

- Please also note that in the cases of papers accepted for the originally planned HYDRO 2020 in Strasbourg, which had appeared on the programme but were later withdrawn, will not automatically be transferred to HYDRO 2021. In some circumstances, such as a withdrawal of a paper for reasons associated with the project to be described, or delays in research results, etc, it may be possible to arrange for an updated version of the paper originally proposed to be presented. But major priority will be given to new proposals for presentations, which are fully up-to-date, and thus of greatest value to the international participants.

- All abstracts submitted for HYDRO 2021 will be reviewed by two or three members of our International Steering Committee as usual, and authors will be notified of acceptance, or otherwise, in June 2021.
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Dr Lukas Port, Mrs Maria Loredo or Mrs Melanie Ganz  •  Tel: +44 20 8773 7250/7251/7252  •  Email: sales@hydropower-dams.com
Alternatively, we invite you to book Exhibition space online via our website: www.hydropower-dams.com/hydro-2021/exhibition-plan
HYDRO 2021 EXHIBITION AND SPONSORSHIP

A major element of HYDRO 2021 will be the Technical Exhibition, running for three days alongside the conference (25 to 27 October). The exhibition areas will be the main hubs for business networking between delegates and industry representatives who will be exhibiting their supplies and services. Exhibitors typically comprise consultants, contractors, manufacturers, developers and professional associations.

All lunches and refreshments will be served in the exhibition, with catering points arranged to allow delegates to move around the whole area regularly during the three days. Feedback from previous events indicates that delegates maximize the opportunities to circulate in the exhibition, and that valuable contacts are made, which are maintained after the event. All parts of the conference and exhibition are open to all registered participants.

The exhibition will remain open for a networking reception after the conference sessions end on Tuesday 26 October, to provide extra opportunities for business meetings in an informal atmosphere.

Exhibition space is generally sold in units of 6 m², and multiple units can be combined to create larger displays, including custom-built stands.

Sponsorship packages are available and provide an excellent way of standing out among competitors (such as coffee breaks, lunches, social events and more).

Please contact: sales@hydropower-dams.com or visit: www.hydropower-dams.com/hydro2021/exhibition-plan

TECHNICAL EXHIBITION PLAN AND PRICING

3 x 2 m (6 m²) = €3225
3 x 3 m (9 m²) = €4835
= Catering

(Blue denotes reserved)
SUBMISSION OF ABSTRACTS

Abstracts are invited on the themes listed or related topics. Please email abstracts to: hydro2021@hydropower-dams.com. A short CV of each author (and any co-authors) must be included.

FORMAT REQUIREMENTS
Your abstract should be in Word, up to 800 words long, in English, and should summarize precisely the scope and content of the proposed paper. In the case of any project described, please mention its current status and date of completion. It would be helpful to suggest the topic to which your paper is best suited.

Please incorporate the author’s name in the file name of the abstract. It is helpful to send a PDF in addition to the Word file.

ATTENDING THE CONFERENCE
Please note that abstracts should only be submitted if the author would be able to attend the conference (or send a representative). Please obtain any necessary clearance, and check your availability to attend, before submitting the abstract.

If your paper is accepted, you will be asked to sign a form confirming your intention to attend; it is essential that we receive this undertaking before allocating time for an oral presentation.

If you have had a paper accepted in the past, and did not attend to present it, you may be asked to register before acceptance of your paper for HYDRO 2021 can be confirmed.

Speakers will be eligible for reduced registration fees, which will include meals and social events during the conference. In the case of speakers from the least developed countries, in some circumstances, we may be able to secure financial support to cover fees, but it is essential that we know this at the time when the abstract is submitted.

The final deadline for receipt of abstracts is 31 March 2021. However, it is useful to receive submissions as early as possible.

Authors will be notified in June 2021 whether or not their paper has been accepted for presentation (or alternatively for publication only on the USB stick).

Abstracts will generally be reviewed by two or more experts on our International Steering Committee, and you may be asked to modify some aspects of your proposed paper. As this review process takes some time, we urge you to submit abstracts promptly (and if possible, well before the deadline).

Full papers will be required by 4 September 2021, and format guidelines will be sent to all authors whose papers are accepted.

A PDF and Word document of each final paper will be required.

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