Strategies for future progress

International Conference and Exhibition
Strasbourg, France ~ Palais de la Musique et des Congrès
26 to 28 October 2020

Organized by:
THE INTERNATIONAL JOURNAL ON HYDROPOWER & DAMS

Supporting organizations include:

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HYDRO 2020 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, which forms the border with Germany, and 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 2020 delegates, it lies in the heart of one of the richest 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.

The theme ‘Strategies for future progress’ is inspired by the continuing efforts of the industry to be innovative in the face of various challenges, to build schemes that are resilient, and to train the next generation of hydro experts.

Key topics will therefore be: future developments; transboundary projects; project financing and structuring; and, capacity building and training.

Additional topics, of increasing importance throughout the world, will be: dealing with hazards and risk; civil engineering; safety; pumped storage; hydraulic machinery; environmental and social aspects; small hydropower; and, sedimentation management.

The French hydropower and dam industry welcomes the event, and the extensive experience of supporting organisations 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 2020. 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.

STUDY TOURS

Three post-conference study tours are envisaged, 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.

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. These study tour opportunities are under development in collaboration with EDF and CNR. More details of the tours will be announced soon.

Each tour is expected to be for two or three days, with overnight stays in places of interest, and will include: overland travel by luxury coach, briefings and guided visits at the sites, and some sightseeing in addition to the technical visits.
CONFERECE TOPICS

The overview below gives an idea of some of the many subjects to be covered; plenty more will be on the agenda. Abstracts may also be submitted on related topics.

**Future developments**
- Hydro potential
- Identifying development opportunities
- Planning and design, including planning tools
- Opportunities for hydro with other RE systems
- The need for flexible grid systems
- Artificial intelligence

**Transboundary projects**
- Project structuring and financing
- Power trading
- Responsibilities for safety and hazard risk
- Environmental aspects of cross-border schemes

**Project financing and structuring**
- Attracting private finance
- The shift from BOOT to PPPs
- Project and country risk management
- Concession agreements
- Legal and contractual issues
- Valuing full economic benefits
- Green finance, including climate bonds

**Dealing with hazards and risk**
- Experience with climate adaptation strategies
- Climate resilient infrastructure and projects
- Challenges of seismicity
- Flood mitigation and management
- Warning systems, exclusion mapping and evacuation plans

**Civil engineering**
- Design, construction, refurbishment and retrofitting
- Materials for dams
- Challenging geological conditions
- Tunnels and underground works

**Safety and risk**
- Dam and hydro plant safety and monitoring systems
- Learning from incidents and failures
- Public safety around water infrastructure
- Electronic and physical security of gates and spillways
- Resilience after floods: global guidelines and national approaches
- Gate operation (including extreme climatic conditions)

**Pumped storage**
- Technical developments in pumped storage
- Ancillary benefits of pumped storage
- Innovative pumped-storage projects

**Hydraulic and electrical machinery**
- Research and development
- Modelling and testing
- Machinery design and safety
- Smart systems to improve efficiency
- Hydro plant operation
- Powerplant monitoring and control
- Operation and maintenance
- Retrofitting and upgrading
- Timely refurbishment

**Environmental and social aspects**
- Designing environmental mitigation measures
- Environmental enhancements during upgrades
- Innovative solutions for fish protection and passage
- Reducing greenhouse gas emissions
- Stakeholder consultation and support
- Resettlement programmes
- Alternative livelihood development
- Post implementation socio-economic assessments
- The role of hydro in poverty alleviation

**Small hydropower**
- Small hydro potential and technology
- Rural electrification schemes
- Marine energy: wave and tidal power

**Capacity building and training**
- Succession planning and opportunities for young professionals
- Training programmes
- Viewpoints from young engineers
- Developing local expertise

**Sedimentation management**
- Hydraulic research and modelling
- Sedimentation removal systems
- Design solutions for siltation and erosion
- Young professionals’ research in sedimentation

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- Xu Zeping, China
- G. Zenz, Austria
A major element of HYDRO 2020 will be the Technical Exhibition, running for three days alongside the conference (26 to 28 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.

The exhibition will remain open for a networking reception after the conference sessions end on Tuesday 27 October, to provide extra opportunities for business meetings in an informal atmosphere.

Exhibition space is generally sold in units of 6 m$^2$, 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/hydro2020/exhibition-plan

### TECHNICAL EXHIBITION PLAN AND PRICING

- 3 x 2 m (6 m$^2$) = €3225
- 3 x 3 m (9 m$^2$) = €4835
- **= Catering**

(Blue denotes reserved)
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<th>HYDRO 2020 EXHIBITORS</th>
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<td>ADAMS Schweiz AG, Switzerland</td>
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To receive further details of the exhibition and/or sponsorship opportunities, please contact:
Dr Lukas Port, Mrs Maria Loredo or Mrs Melanie Ganz  •  Tel: +44 20 8737 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-2020/exhibition-plan
SUBMISSION OF ABSTRACTS

Abstracts are invited on the themes listed or related topics. Please email abstracts to: hydro2020@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 2020 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 2020. However, it is useful to receive submissions as early as possible.

Authors will be notified in June 2020 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 2020, 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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HYDRO 2020 ~ Strategies for future progress

Palais de la Musique et des Congrès ~ 26-28 October 2020

☐ I am interested in attending the Conference and Exhibition as a delegate. Please send further details.

☐ I attach/enclose an abstract for consideration. If it is accepted, I or a colleague will attend the conference to make the presentation.

☐ I intend to submit an abstract by Tuesday 31 March 2020 at the latest.

☐ My organization may wish to participate in the Exhibition. Please send further details.

☐ I am interested in sponsorship opportunities (coffee breaks, lunches, social events, entertainment, WiFi, etc).

Please send details.

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