



Seventh International Conference and Exhibition on Water Resources and Renewable Energy Development in Asia

organized by

THE INTERNATIONAL JOURNAL ON
**HYDROPOWER
& DAMS**

will take place at the
**Ariyana Danang Exhibition and Congress Centre
and Furama Resort, Danang, Vietnam**
13-15 March 2018

Asia continues to be the continent with the greatest amount of water resources and renewable energy development under way. Some of the world's most impressive multipurpose dams of all types are in operation or under construction, and major programmes continue for the development of more hydropower and other renewable energy schemes such as solar and wind power. These intermittent sources increase the attractiveness of pumped-storage development.

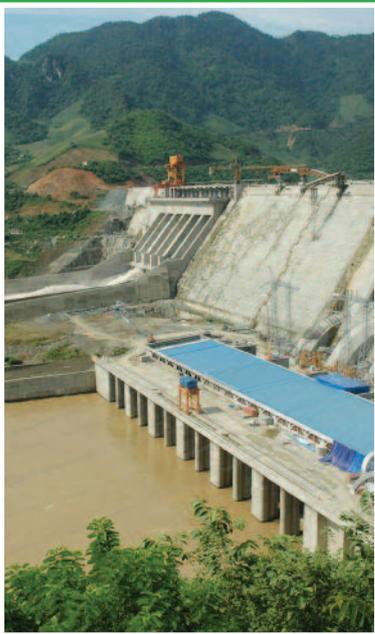
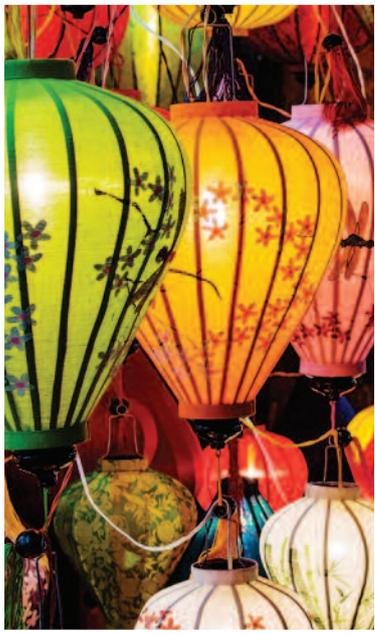
Asia is a region with much past experience to share, on everything from large storage schemes, and transboundary run-of-river hydro plants, to small and micro schemes which are playing a major role in rural socio-economic development.

ASIA 2018 will provide a platform for international experts from around 50 countries to focus on issues of direct relevance to Asia: helping advance projects which will exploit the remaining renewable energy potential; exploring investment opportunities and strategies; addressing major challenges such as climate resilience, and the management of floods and earthquakes; encouraging best practice in project implementation; and, reviewing advances in technology for both new and refurbishment schemes.

Conference supporting organizations will include:



EVN



The Asian regional conferences

Recognizing that Asia is the region of the world with the largest current programme of water resources and hydro development, but also some of the greatest challenges to face, including natural hazards, challenging sites, and in some countries limited resources, Aqua~Media has been organizing regional conferences in Asia since 2006.

Working with the major water- and energy-related professional associations, as well as an international steering committee of world-renowned experts, the Aqua~Media team puts together a technical programme for each event which represents a unique concentration of expertise on all practical and topical areas of interest to the world water and renewable energy community. The plenary opening ceremony features national overviews of development potential and keynote addresses; parallel sessions then include paper presentations and panel discussions. Side events provide extra opportunities for training, capacity building and business networking.

Previous events in this series have taken place in: Bangkok (2006); Danang (2008); Kuching (2010); Chiang Mai (2012); Colombo (2014); and, Vientiane (2016). Delegates from around 50 countries assemble for the three-day Asian events, so there is a practical exchange of expertise and experience from representatives of nations at different stages of development.

Who should attend

Key participants are government representatives (from ministries and utilities), planners, researchers, consultants, owners and operators of water infrastructure and hydro plants, contractors, suppliers, officers from the relevant professional associations, academics and students.



AMI Hydropower Foundation

This charitable organization, governed by a Board of International Trustees, facilitates the participation of eligible applicants from the less developed countries, to attend Aqua~Media's conferences. For more information or to download an application form, visit: www.hydropower-dams.com



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M. Gopalakrishnan, India	F. Lemprière, France	P.J. Rae, USA	Y. Yamabayashi, Lao PDR

The Venue



Host country

After ten years, Aqua-Media International is very pleased to be returning to Danang, Vietnam, for ASIA 2018 – the seventh regional conference on Water Resources and Renewable Energy Development in Asia. VNCOLD and EVN have expressed their support for the event, and look forward to welcoming the world water and energy community.

Vietnam has around 14 500 MW of installed hydro capacity at large and small plants, supplying more than 30 per cent of national electricity, and today the country is also exploiting other renewable energy options, such as solar and wind power.

The country has much valuable experience to share, of impressive water storage schemes such as the recently completed Son La and Lai Chau schemes, and the on-going Trung Son, Huoi Quang and Thuong Kon Tum projects. With the aim of adding about 90 GW of new generating capacity by 2030 to meet current demand growth, Vietnam is strongly encouraging private sector development.

Future plans also include pumped-storage development. Dam safety, climate resilience, flood control and transboundary schemes are key areas of interest.

Congress Centre

The Ariyana Danang Exhibition and Congress Centre (ADECC) is a new state-of-the art meeting facility, to be completed later this year, adjacent to the luxurious and attractive Furama resort, where ASIA 2008 took place. This new centre is appropriate to host our conference, which has also grown over ten years in size and scope. In November, ADECC will host the APEC 2017 gathering of economic leaders of the Asia Pacific region.

ASIA 2018 conference sessions and exhibition will take place within ADECC, and delegates will also be able to benefit from all facilities of the Furama resort close by.

Access to Danang

Danang will be an ideal meeting point for delegates from all parts of the world. The airport, the third largest and busiest in the country, is being expanded, with the addition of a new terminal before the end of this year. There are already direct connections with a number of international airports such as Bangkok, Singapore, Kuala Lumpur, Seoul, Hong Kong, Tokyo, Siem Reap, Hangzhou, Chengdu, Nanning, etc, as well as the Vietnamese cities of Hanoi and Ho Chi Minh, to the north and south, respectively.

Danang International airport is located less than 15 minutes drive from ADECC.

Nationals of some countries do not require visas for a stay in Vietnam of less than 15 days. However, for those requiring a visa on arrival or in advance, letters of support can be provided at the time of conference registration.

Accommodation

Rooms are being blocked for ASIA 2018 participants in a range of hotels to suit all budget categories. The luxurious Furama hotel will be the main headquarters hotel, and other hotels close to the conference centre and Furama resort will also be available to book through our event managers:



ASK Event Management Ltd, UK. Please note that this is the only organization officially representing the ASIA 2018 conference for accommodation bookings. ASK will also be handling conference registration and tours.

Please beware of scam accommodation bureaux, which often approach conference participants by telephone or email, implying that they represent us. We strongly recommend that credit card details are not given to these organizations.



ASIA 2018 Themes for discussion

Abstracts are invited on the themes below, and related subjects. Please refer to the back page of this brochure for guidelines on the format for submission, and the deadlines.

Planning and development

- Review of plans and progress in Asian countries
- The value of integrated regional development
- Project preparation; making projects bankable
- Tools for project assessment, economic studies and design
- International and cross-border cooperation
- Appropriate project planning and benefit sharing
- Grid operation: national and integrated regional systems
- Small schemes for rural development
- Marine energy prospects in Asia

Finance, economics and commercial and legal aspects

- Securing project finance for water and energy infrastructure
- Carbon credits, carbon trading and income diversification
- Power trading and purchase agreements
- Legal and contractual issues

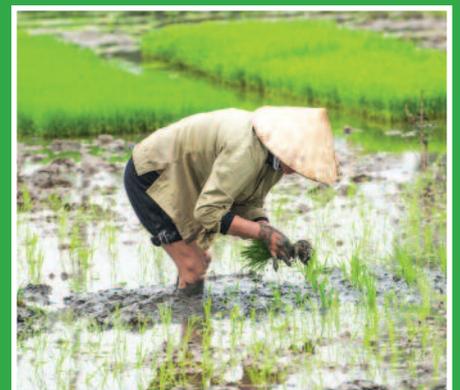
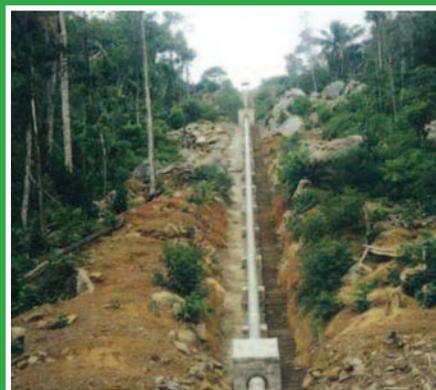
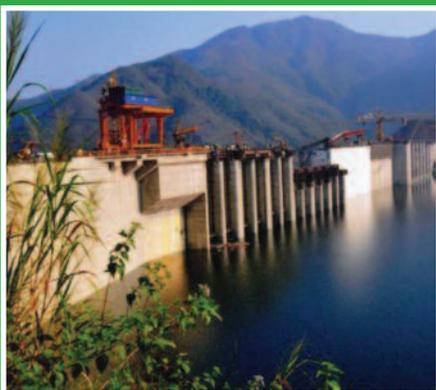
Hydrology and flood management

- Flood mitigation and management
- Early warning systems
- Implications of climate change and climate resilience strategies
- Water infrastructure and flood discharge works (innovation, efficiency, safety and economy)
- Innovative spillway design



Civil works and challenging site conditions

- Site planning for safety and efficiency
- Remote sites and extreme climates
- Construction management
- Benefits of multipurpose schemes, including case studies
- Materials for dams: past experience and future developments
- Selecting appropriate construction equipment
- Seismic design and tackling complex geology
- Innovative solutions in design and construction
- Sedimentation: planning and design approaches
- Tunnels and underground power caverns



in sessions, panels and workshops

Please note that the topics listed are not the final session topics, but are designed to give general guidance on the preferred themes for the programme.



- R&D and innovation: Modelling, testing and monitoring
- Maintenance and timely refurbishment
- Instrumentation, control and cyber security
- Powerplant safety: learning from incidents and failures
- Optimizing operation of powerplants and reservoirs
- Pumped storage: technology, role in the grid and benefits
- Gates, valves and hydromechanical equipment
- Workforce training: health and safety aspects
- Appropriate low cost solutions for rural electrification
- Transmission and distribution

Environmental and social aspects

- Impact assessment: methodology and experience
- Integrated regional development
- Mitigation measures for environmental and social impacts
- Greenhouse gas emissions from reservoirs
- Fish protection
- Facilitating communications with project-affected people
- Enhancing socio-economic development in rural areas

Succession planning

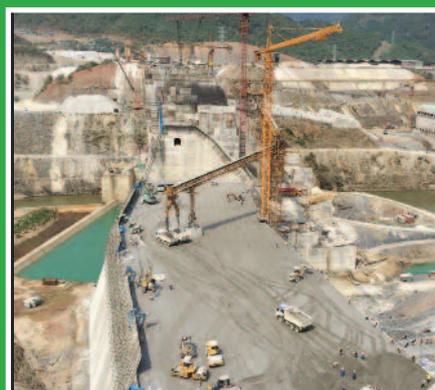
- Technology transfer
- Approaches to capacity building
- Available training courses
- International exchange programmes

Safety of water infrastructure

- Managing natural hazards: strategies and case studies
- Learning from accidents and failures at dams and tunnels
- Upgrading of dams and spillways to meet higher safety standards
- Health and safety of the workforce on site
- Safety issues especially relevant to small dams

Technology: hydro and other renewables

- Emerging trends in renewable energy development
- Hydro in synergy with other renewable energy sources
- Hydro turbines and generators (large, small and micro)



Exhibition and Sponsorship

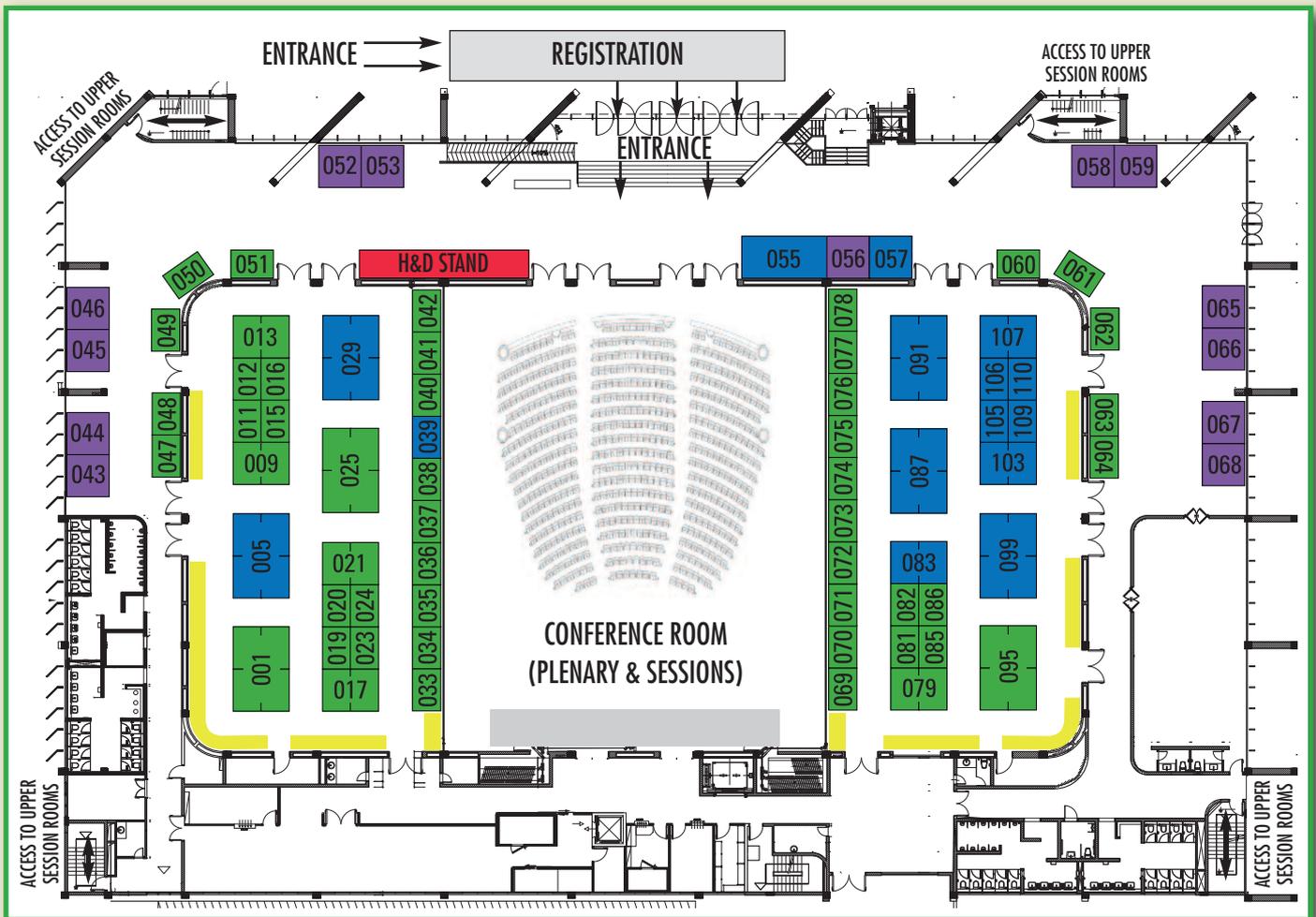
A major technical exhibition will run alongside the ASIA 2018 conference, showcasing the latest developments in the water and renewable energy sectors, as well as the activities of professional associations, and the services of specialist consultants, contractors and equipment suppliers. All lunch and refreshment breaks will take place in the spacious exhibition halls, and there will be a networking party after the conference sessions on 14 March to provide an additional opportunity for meetings between exhibitors and international delegates. Exhibition stands are available in units of 6 m², and custom-built units can be arranged. We recommend reserving space early, to secure one of the best positions.

Single stand prices: 3 x 2 m (6 m²) = US\$ 3500 3 x 3 m (9 m²) = US\$ 5250 = Catering area

A number of sponsorship opportunities are available, for example items such as conference bags, water coolers, coffee and lunch breaks, WiFi, and various social events. Full details can be obtained from our Sales & Marketing team, and will be announced shortly on our website.

Meanwhile, for further information or to make a provisional reservation for an exhibition stand, contact:

Dr Lukas Port, Mrs Maria Loreda or Mrs Melanie Ganz • Tel: + 44 20 8773 7250/7251/7252 • Email: sales@hydropower-dams.com



Exhibition stands reserved by mid-May 2017

Andritz Hydro GmbH	www.andritz.com	005
GE Renewable Energy	www.gerenewableenergy.com	091
ICOLD	www.icold-cigb.org	039
KGAL, UK	www.kgal.co.uk	099
Muhr, Germany	www.muhr.com	057
Norwegian Renewable Partners		055
Pöyry Energy Ltd	www.poyry.com	083
Voith Hydro, Germany	www.voith.com	029
Whessoe, Malaysia	www.whessoe.com.my	099

Industry Sponsors

(agreed, as of May 2017)



Cultural programme

A cultural programme is being arranged so that on the day of registration, after arriving in Danang, all participants will have the opportunity to take part in a local excursion, to see some of the highlights surrounding the city before the conference begins, and to have lunch together. Then a three-day package of excursions will be offered for accompanying persons; plans include visits to Marble Mountain, the Japanese bridge in Hoi An, and rural areas around Danang including My Son, with many chances to learn about local customs and culture.

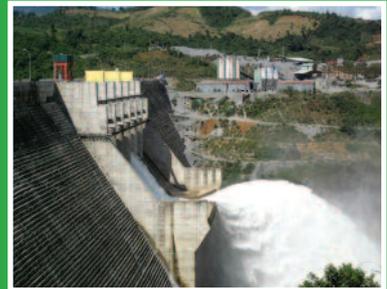


Technical Study Tours

Arrangements are being made, in collaboration with the Vietnamese National Committee on Large Dams and EVN, to visit a number of dams, reservoirs and hydro plants in various parts of the country, during two post-Conference tours. Details will be announced shortly. Each trip will include several projects, and will include cultural visits, as well as a chance to travel through stunning rural landscapes.

It is also provisionally planned to include a tour to dams and hydro plants in Myanmar. All trips are being arranged as inclusive packages, including travel, accommodation, meals, touristic and technical guides, briefings and refreshments at the sites, and entrance fees to places of interest.

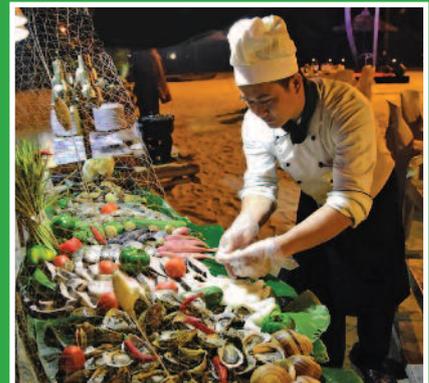
Details will be posted shortly on our website, and published in *Hydropower & Dams*.



Social programme

As usual, a full social programme will provide opportunities for continued networking in a relaxed atmosphere, and a chance to experience the best of Vietnamese entertainment and cuisine. A reception will be held for Chairmen and Speakers after their briefing on 12 March, and then there will be a Welcome Reception for all participants, in the setting of a tropical garden, on 13 March.

For the Farewell Gala dinner, on 15 March, we will not miss the opportunity to have the spectacular ocean as a background. A beach party will be organized on the sand, between the coconut palms, at the elegant Furama resort. The dinner will include a barbecue, a lavish buffet, and plenty of entertainment, to provide a memorable ending to the ASIA 2018 discussions.



Submission of Abstracts

The conference programme will be based on a combination of: country reports from national authorities in various Asian countries; invited lectures on specialist topics; and, papers submitted in response to this Call for Papers - some of which will be published, and others selected for presentation. A USB stick containing the papers presented will be available for all participants. Some papers may also be published in *The International Journal on Hydropower & Dams*.

Abstracts of up to 500 words, in English, are now invited on the themes listed or related topics. Please email abstracts to the address below in both Word and PDF format. A short CV of each author/co-author should be included.

Your abstract should summarize precisely the scope and content of the paper proposed. No artwork is required at this stage. In the case of any project described, please mention its current status or date of completion. Please incorporate the author's name in the file name of the abstract.

Please note: 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 availability to attend, before submitting the abstract. Speakers are eligible for greatly reduced registration fees.

If the paper is accepted, you will be asked to sign a form confirming willing-

ness to attend; it is essential that we receive this undertaking before allocating time for an oral presentation.

The deadline for receipt of abstracts is Monday 17 July 2017. Authors will be notified by September 2017 whether or not their paper has been accepted for presentation at the Conference, or for publication in the Proceedings.

Abstracts will be reviewed by two or more experts on our International Steering Committee, and authors may be asked to modify some aspects of proposed papers. The review process takes some time, so we urge you to submit abstracts promptly.

Full papers will be required by Monday 29 January 2018, and format guidelines will be sent to all authors whose papers are accepted. Full papers accepted for the conference will be produced on a USB stick.



Water Resources and Renewable Energy Development in Asia



Ariyana Danang Exhibition and Congress Centre , Danang, Vietnam, 13-15 March 2018

- I am interested in attending the Conference as a delegate. Please send further details.
- I attach an abstract for consideration. If it is accepted, I or my representative will attend the conference to present the paper.
(NB: Speakers will be eligible for greatly reduced registration fees, which will cover attendance of the whole event - technical and social programmes - and meals during the Conference.)
- I intend to submit an abstract by 17 July 2017.
- My organization may wish to participate in the Exhibition. Please send further details.
- I am interested in sponsorship opportunities. Please send details.
- I would like to subscribe to *The International Journal on Hydropower & Dams*.
(When registering as a delegate I wish to take advantage of the reduced registration fees for subscribers)

Name: Position/Dept:

Organization:

Address:

Country: Email:

Fax: (+ int. code) Tel: (+int. code)

Proposed paper topic:

Please email abstracts (in Word and PDF format) to: Mrs Margaret Bourke, Conference Project Manager, Aqua~Media International Ltd
asia2018@hydropower-dams.com

Postal address: PO Box 285, Wallington, Surrey, SM6 6AN, UK. Tel: +44 20 8773 7244 Fax: +44 20 8773 7250