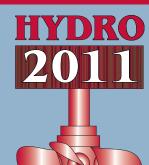


Preliminary Bulletin







Practical Solutions for a Sustainable Future

17 to 19 October 2011 ~ Prague, Czech Republic

Organized by:



Co-hosted by:



Policy-makers, developers, financiers, and hydro practitioners in all parts of the world are joining forces today to maximize the many inherent benefits of multipurpose hydropower projects. Pumped-storage schemes are playing an increasingly important role, particularly in countries where intermittent renewable energy systems are being developed. Power trading is accelerating socio-economic development in many hydro-rich countries, and innovative small hydro schemes are providing practical solutions for rural electrification.

Our HYDRO 2011 Conference and Exhibition will bring together high level delegations from all countries with active hydro development programmes underway, to discuss priorities, achievements and challenges.

Supporting organizations include:









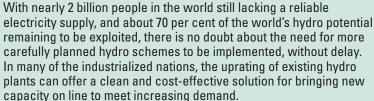




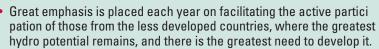


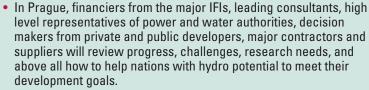
HYDRO-2011 Mission

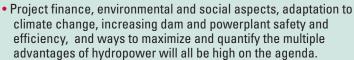












 Technical sessions will be complemented by workshops, panel discussions, and a number of side events.









The Venue



A stunning city in the heart of central Europe, located on the Vltava river, the Czech capital city of Prague will provide the perfect setting for HYDRO 2011. Bordered by Germany, Austria, Slovakia and Poland, The Czech Republic is easily accessible from all parts of the world.

The historical centre has been designated a UNESCO World Heritage Site. As well as offering a wealth of cultural attractions, it is renowned as a centre for international congresses, having hosted summits of NATO, the EU, and the World Bank.



Accommodation



Accommodation is being arranged at special rates for HYDRO 2011 participants in Prague, in all categories. Two excellent 4* hotels are adjacent to the Congress Centre, and others are a short distance away, either on foot or by an easy public transport route.



mes for HYDRO-20



Global needs and challenges

Policy and planning Regional issues Potential and development opportunities Capacity building needs Climate change and floods



Local consultations: case studies E&S management to reduce costs Wildlife conservation and fish protection Lessons from resettlement programmes Research on carbon emissions from reservoirs



Public safety close to dams Communication aspects Warning systems and physical barriers Learning from experience



Economic aspects Valuing market and non-market benefits Payment for environmental and social requirements Multi-criteria decision-making for stakeholders



Wind and hydro; Hydro and solar Back-up systems for intermittent sources Grid optimization and management Storage systems



Project financing

The role of the IFIs and other financiers New approaches: bi-lateral agreements, BRIC co-financing Public-private partnerships Risk management Legal and institutional aspects



Regulatory aspects Power trading Contractual frameworks Carbon trading Concessions



Role in the grid Ancillary benefits Technical developments in machinery Unusual case studies



Research and development Modelling and testing Equipment design and manufacture Environment-friendly design Enhancing efficiency Innovation Refurbishment

Civil engineering

Dams and flood discharge works Tunnels and penstocks Construction materials Dam safety Methods of repairing dams

System management

Optimizing operation Software developments Operation and maintenance Electrical/electronic systems **Grid stability**



Coordination and communication Site supervision Challenging/remote sites Extreme climatic conditions

Small hydro

Assessing potential Incentives for development Innovative approaches Rural electrification Low-cost technology

Sedimentation management

Project layout Sediment measurement Machinery abrasion protection Removal systems

Developments in marine energy

Tidal power potential Wave power research In-stream systems

Plant life extension

Economic modelling Modernizing equipment Upgrading civil works Uprating with pumped storage











INTERNATIONAL STEERING COMMITTEE INCLUDES:

S. Alam, France

J. Antunes Sobrinho, Brazil

I. Araki, Japan E.M. Baardsen, ADB

E. Bellendir, Russian Federation

L. Berga, Spain

A. Bergeret, France

P. Bláha, Czech Republic

P. Boeriu, UNESCO-IHE

H. Brekke, Norway

V. Broza, Czech Republic

R. Bucher, Germany

J.M. Buil Sanz, Spain A. Carrère, France

D. Develay, France

J-M. Devernay, France M. De Vivo, France

Dr E. Doujak, Austria

I. Ekpo, Nigeria

M. François, France J. Freitas, Portugal

M.A. Gómez Balandra, Mexico

J. Gummer, Australiaå

C.R. Head. UK

F. Isambert, France

R.E. Israelsen, USA

Jia Jinsheng, China

Ø. Johansen, Norway

C. Kayitenkore, Burundi H. Keck, Switzerland

V. Kercan, Slovenia

H. Kreuzer, Switzerland

T. Kunz, Switzerland

U Myo Myint, Myanmar

R. Lafitte, Switzerland

F. Lempérière, France

B. Leyland, New Zealand Lin Chuxue, China

F. Louis, France

E. Monosowski, Brazil/France

N. and L. Nielsen, Australia

A. Nombre, Burkina Faso

A. Palmieri, World Bank

B. Pelikan, Austria

B. Petry, The Netherlands

I. Phiri, Zambia J. Plummer, UK

V. Radchenko, Russian Federation

P.J. Rae, USA J.R. Rojas Morales, Costa Rica

F. C. da Rocha e Silva, Portugal

J. Rupčić, Croatia

L. Satrapa, Czech Republic Z. Saturka, Czech Republic

B. Skácel, Czech Republic

A. Schleiss, Switzerland

M. Schreier, Czech Republic

K. Seelos, Norway

J-J. Simond, Switzerland

B. Tardieu, France

J. Thanopoulos, Greece

S. Tickodri-Togboa, Uganda B. Trouille, USA

C.V.J. Varma, India

J.G. Warnock, UK

G.M. Wedam, Austria

D.A. Williams, UK

J. Yaqüe, Spain

An important element of HYDRO 2011 will be the major international Technical Exhibition which will extend throughout the Congress Centre, alongside the conference rooms. About 200 companies active in the hydro and dams profession will demonstrate their expertise and scope of supplies or services.

- International delegates from more than 85 countries, including heads of national utilities, and regional power and water boards, powerplant owners and operators, leading consultants and contractors will have the opportunity to visit exhibitors during all coffee and lunch breaks, as well as at the social events, where all exhibitors are welcome. This represents a unique opportunity, over three days, to make valuable new contacts from countries where major hydro development programmes are under way and planned. A cocktail reception will take place in the Exhibition Halls after the conference sessions on Tuesday afternoon.
- Exhibitors are entitled to one free conference registration, and additional discounted rates.
- Exhibition space is sold in units of 6m². The price per unit is €2800, which includes the fabricated stand, a table and two chairs, panels suitable for mounting posters, a name sign, and an electricity supply. Additional furniture can be ordered from our recommended sub-contractor. See plan below for available places.
- Opportunities are available to co-sponsor meals, coffee breaks, apéritifs, receptions, water coolers, bags or other items. This is a memorable way to bring your company to the attention of the international participants. For details of the exhibition or sponsorship opportunities, contact:

Mr Gaël Bozec, Mrs Maria Loredo or Mr Lukas Port: sales@hydropower-dams.com Tel: +44 20 8773 7250 or +44 20 8773 7251

New area available! Level 3









Exhibiting Companies



STANDS BOOKED BY BEGINNING March 2011 (Bold type denotes a Conference Co-Sponsor)

ABB AG, Austria
Agudio SpA, Italy
Alstom
Amitech, Switzerland
Andritz Hydro, Austria
AOFlow Canada
AQFlow, Canada
AquaVision Engineering, Switzerland
Arcus Gibb , South Africa
ATB Riva Calzoni, SpA, Italy
Basler Electric, France
Dasiei Liectric, France
Bernard Bonnefond, France
British Hydropower Association, UK
Dillian Hydropower Association, OK
Böhler Welding, Austria
Braun Maschinenfabrik GmbH
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Brüel & Kjær Vibro, Austria
Camuna Idroelettrica SnA Italy
Cantana I Dainaga C A II Carain
Camuna Idroelettrica, SpA, Italy Cantarey Reinosa S.A.U., Spain
Carpi Tech, Switzerland
Cesari Hydro, Italy
CEZ, Czech Republic
Chesterton, UK
CNC Tvar s.r.o., Czech Republic
Costronic, Switzerland
CREA Hydro & Energy o.s. Czech Republic
d2fc Energy Valves, France
uzic Liletyy valves, I falice
Damen Dredging Equipment, Netherlands
DFME Sp. Zoo, Poland
DSD Noell, Germany
Dutch Dredging, Netherlands
D I ((1,1,1))
Dyrhoff Ltd, UK
EFACEC
EI 7 0 D I '
Elprom Zem Co, Bulgaria
EPFL-LMH, Switzerland
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Encardio Rite India
Emerson, Europe Encardio Rite, India
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www.boehler-welding.com www.braun.at	47
www.braun.at www.bkvibro.com	129
www.camunainstallazioni.it	179
www.cantarey.com	70
www.carntarey.com www.carpitech.com	45
www.carpitech.com www.cesarigiovanni.it	136
www.cez.cz	318
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www.cnctvar.cz	161
www.costronic.ch	182
www.creacz.com	54
www.d2fc.com	163
www.damendredging.com	83
www.dfme.pl	168
www.dsd-noell.com	8
www.dutchdredging.nl	83
www.dyrhoff.co.uk	128
www.efacec.com	328
www.elprom-zem.com	95
www.epfl.ch	62
www.emersonprocess-powerwater.com	152
www.encardio.com	154
www.energi-teknikk.no	61
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www.engevix.com	36
www.fahime.com	7
www.farab.com	170
www.deva.de	34
www.fgtindustrie.fr	126
www.flamespray.it	188
www.flexim.com	118
www.franke-filter.de	93
www.ge.com	174
www.gess.cz	130
www.ggb.de	1
www.ggbearings.com	194
www.hydro-energy.com	74 72
www.hef.fr www.heinzmann.co.in	139
www.hbhc.com.cn	153
www.hydreo.eu	160
www.hydrorom.com	180
www.hyrdoexpertise.com	150
www.hydro-exploitation.ch	96
www.hydrohrom.cz	196
www.hydroplus.com	125
www.hydrovision.de	162
www.hydroworks.co.nz	322
www.idg-gmbh.com	126
www.imhp.es	88
www.indar.net	10
www.intpow.com	104
www.jameswalker.biz	132
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Kolo Veidekke, Norway
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www.hydroproject.ru	5
www.kinemetrics.com	111
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www.koncar.hr	140
www.korto.com	199
www.kuenz.com	46
www.lvpower.is	87
www.ldw.de	80
www.lhg-gleitkomp.de	63
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Optional Excursion



On Sunday 16 October, a half-day optional excursion will be offered to all participants. This will include a visit to the castle, overlooking the scenic old city of Prague, as well as a river cruise, which provides a spectacular view of many of the main plaices of interest, including the famous Charles Bridge. Lunch will be included. There will be time to register for the Conference before or after this excursion, which will depart from, and return to, the Congress Centre.



Technical Tours



At least two technical tours are planned to follow HYDRO 2011. The national power company ČEZ has a portfolio of 37 hydroelectric plants, ranging from mini hydro schemes of less than 1 MW, to the largest pumped-storage schemes such as Dalešice (450 MW) and Dlouhé Stráně (650 MW). The technical tours will give the opportunity for delegates to learn about recently constructed schemes, refurbishment projects, the role played by renewable energy in the Czech grid and also Czech expertise in flood management and environmental protection.



Social Programme



Prague is renowned as a European centre of culture, particularly music and art, and is also famous for its cuisine and excellent wines. Our social programme will reflect all of these delights. A Welcome Reception will be held on the first evening at an elegant location in the centre of town, with a buffet supper featuring Czech specialities. There will also be a Networking Cocktail in the exhibition, after the sessions on the second day. A Gala Dinner will provide a memorable end to the conference.



Accompanying Persons' Programme



A package of three tours is being planned for accompanying persons, all including lunch.

The first will provide an opportunity to get to know the city of Prague better, with visits to some of the most important historical and cultural places, and with time to explore the interior of the castle. Other trips will take participants outside the city, to see some spectacular landscapes, learn more about the history and traditions of the country, and of course to enjoy some of the best Czech gastronomy.





Tour A: Lovosice Pistany and Střekov small hydro plants

Day '

Leaving Prague in the morning by coach, delegates will travel towards Usti nad Labem, and on to the nearby Lovosice Pistany project for the first technical visit. Located on the Elbe river, the 3 MW Lovosice scheme has a net head of 1.9 m and a total discharge of 160 m³/s. It was commissioned in September 2010 and is owned by RenoEnergie. It is equipped with four horizontal double-regulated Kaplan pit turbines, each with three 3000 mm-diameter runner blades.

From here, coaches will continue towards the Střekov project. This multipurpose scheme provides hydropower and a 19.5 km-long navigable reservoir which links Labe in the Czech Republic with Magdeburg in Germany. Construction of the project began in 1921, and a complete reconstruction was completed in 2001, including the upgrading of the three 5 MW Kaplan turbines.

Lunch is planned in the town of Usti nad Labem, after which there will by a short transfer to Karlovy Vary where participants will have a chance for sightseeing and shopping in the afternoon, followed by dinner and an overnight stay. The 14th Century City of Karlovy Vary has rich history and is well known for its international film festival and local specialities such as Becherovka liquor and glass products.



The day will start with a visit to the 12th Century town of Loket, and its imposing 800 year old gothic castle. Loket translates as 'elbow', and the picturesque town is thus named as it is surrounded on three sides by the Ohre river, the shape the river being similar to that of an elbow.

The return trip to Prague will include a stop in Pilsen, with lunch at the famous Na Spilce restaurant within the grounds of the Pilsner brewery.



Coaches will depart on the first morning from Prague and head to the Hradec Králové project for a site inspection. The Hradec Králové hydro plant is protected as a national cultural heritage site and is listed in the Central Registry of Cultural Monuments. Construction of the plant began in 1909 with operation starting in 1911. The dam impounds a 340 000 m³ reservoir, and the powerhouse is equipped with three Francis turbines with a unit output of 0.25 MW. There are three high voltage switch buildings of 35 kV, 5 kV and 10/5 kV.

After a lunch-stop taken close to the dam, the trip will continue to the Dlouhé Stráně pumped-storage station, which has been names as one of the seven Czech Wonders. This important project has the largest (325 MW) reversible hydraulic unit in Europe. This plant also has the largest installed capacity in the Czech Republic, totalling 650 MW from the two units. The underground power cavern measures $87.5 \times 25.5 \times 50$ m. After the technical visit, a trip to the 16th Century paper mill at Velke Losiny is planned. This mill was declared a National Cultural Monument by the Czech Government in 2002.

Day 2

The tour will continue to Brno, the second largest city in the Czech Republic. A short tour of the city will be followed by lunch, after which the group will continue to the Mohelno plant.

The run-of-river Mohelno scheme provides a cooling water reservoir for the Dukovany thermal plant and it also serves to dilute waste water as part of the Dalešice water treatment works. The project has two small hydro units installed: a 1.2 MW Kaplan and a 0.6 MW Francis turbine are in operation. From Brno, coaches will continue to the nearby Dalešice pumped-storage scheme. Dalešice has an output of 450 MW from four reversible Francis units. Completed in 1978, the 100 m-high main dam is a rockfill structure with a clay core. After this full day of dam visits, a relaxing dinner with a beer tasting is planned at a famous Czech restaurant not far from Hrotovice, where the group will stay overnight.

Day 3

The final day of the tour will begin with a visit to the UNESCO World Heritage Site of Telc. A walk through the city will offer views of decorated patrician houses, inspired by Italy and dating from the middle ages. As lunchtime approaches, coaches will set off to the town of Zvikov. After lunch there will be a site inspection of the 364 MW Orlik project, with its $720 \times 10^6 \text{m}^3$ reservoir which is the largest-capacity storage reservoir in the Czech Republic. This large scheme, constructed between 1954 and 1961, has a 91.5 m-high concrete gravity dam, with a crest length of 450 m. The powerplant tis equipped with four Kaplan turbines. After this visit, the tour will return to Prague.

Tour itineraries are being finalized, and could be subject to minor changes. Full details will be available in May, and will also be published in the Final Bulletin in June.













Submission of Abstracts

Abstracts of up to 800 words, in English, are now invited on the themes listed or related topics. Please mail, fax or email abstracts to the address below. A short CV of each author should be included.

Your abstract should summarize precisely the scope and content of the paper proposed. In the case of any project described, please mention its current status or date of completion. If the abstract is sent by email, please incorporate the author's name in the file name.

IMPORTANT:

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.

Speakers will be eligible for a greatly reduced registration fee. In the case of speakers from the less developed countries, in some exceptional 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.

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

The deadline for receipt of abstracts is <u>18 February 2011</u>. Authors will be notified in May 2011 whether or not their paper has been accepted for presentation, or for publication in the Proceedings.

Abstracts will 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 (if possible well before the final deadline).

Full papers will be required by <u>12 August 2011</u>, and format guidelines will be sent to all authors whose papers are accepted.

A hard copy, PDF and word document of each final paper will be required.

Full details of the technical and social programmes, more information about the excursions, accommodation and registration fees, will be published in the Final Bulletin, which will be distributed in June 2011.

HYDROPOWER & DAMS

Meanwhile, information about **HYDRO 2011** will be updated regularly in the Journal *Hydropower & Dams*, by email, and on our web site (www.hydropower-dams.com).

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