Implemented innovative digital measures, products and tools

It is not possible to accept credit cards or currency at the conference office.

ROUTE DESCRIPTIONS
Route descriptions to the conference venue as well as to the evening event can be downloaded on the event website.

EXHIBITION AND SPONSORSHIP PACKAGES
Take the opportunity to receive more attention for your activities in the Hydropower Sector. The TU Graz offers an excellent location for you at our event. Located on the same floor as the aula, we are providing places for some exhibitions. Every coffee break as well as the lunch will take place around the exhibition places, providing you with optimal conditions for the presentation of your company. For more information see: Sponsoring Packages

CONFERENCE OFFICE
The conference office will be open from 8.30 a.m. on. Regarding conference procedures please contact Eva Silberer
Phone: +49 201 8128 - 202
E-mail: vgb.digihpp@vgb.org

PRIVACY POLICY
VGB is committed to protect your privacy. We will only use the information that we collect about you lawfully. We collect information about you to process your order and to provide you with best possible service in the future. The documents will list your name, surname, title, function, company and place of business. Photos and videos from the event will be published in VGB publications as well as in other publications and the internet.

IN COOPERATION WITH

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SIDE EVENT
On Thursday, 22 April, starting at 4.30 p.m.
Visititation of the Hydraulic Laboratory from the Institute of Hydraulic Engineering and Water Management.
Stremayrgasse 10/II
8010 Graz

EVENING EVENT
On Thursday, 22 April, starting at 7.30 p.m., all workshop participants are invited to join the get-together at the Graz University Rooftop Mensa
Stremayrgasse 16
8010 Graz

ATTENDANCE FEES
Workshop fee non-VGB members ........................ € 900,-
Workshop fee VGB members .......................... € 600,-
Pensioners, Universities, Public authorities .............. € 300,-

The attendance fees are free of VAT and include the list of participants, the conference presentations (after the conference), coffee breaks and beverages, lunch and the participation in the evening event as well as in the visitation.

VGB PowerTech e.V.
Deilbachstr 173
45257 Essen/Germany
Eva Silberer
Phone: +49 201 8128 – 202
E-mail: vgb.digihpp@vgb.org
Online Registration
DIGITALIZATION IN HYDROPOWER

Enhanced digital controls can contribute to improving the performance of hydropower fleets, plants and equipment by reducing costs and optimising asset management. Digital control systems can also play a major role in improving decision-making and supporting operations to work more efficiently.

The international VGB expert event will again provide a comprehensive overview of digitalization in hydro power dealing mainly with the results of newly developed and implemented innovative digital measures, products and tools. This may contribute to improving and optimising digital solutions in your own company.

The expert event will bring together experts from leading operator and manufacturer companies as well as related stakeholders to discuss challenges and opportunities for the operation of hydro power fleets accruing from digital transformation.

There will be enough time for detailed bilateral discussions and for answering questions.

EXPERT EVENT PROGRAMME

WEDNESDAY — 22 APRIL 2020

10.00 Welcome and opening of the expert event
   Univ.-Prof. Dr H. Bischof, Vice Rector of Graz University of Technology
   Dr K. H. Gruber, Chairman of VGB’s Strategic Forum “Hydro” (VERBUND Hydro Power GmbH)

10.55 SESSION 1: Innovative tools
   eDocumentation - a new approach
   Dr F. Lippold (Voith Hydro Holding GmbH & Co. KG)
   Digitization@Uniper hydro - Applications, Experiences & Initiatives
   Dr C. Kunze, Dr K. Engels, B. Miller (Uniper Kraftwerke GmbH)

THURSDAY — 23 APRIL 2020

09.00 SESSION 3: Performance optimisation
   Digitization of turbine geometries for computational fluid dynamics and other studies achieving the necessary accuracy
   L. Sörensens (Scan3D Dienstleistungsgesellschaft mbH)
   Digital O&M - From monitoring to asset management
   Dr E. Parkinson, C. Vecchiato (ANDRITZ Hydro GmbH)

10.20 Lunch Break

10.50 SESSION 4: Practical applications of predictive maintenance
   Optimized model predictive control for run-of-river power plants at river Drau in Austria
   O. Buchholz (HYDROTEC)
   Digitalization of hydraulic auxiliary systems in hydropower plants
   C. Schneeweis (HYDAC International GmbH)
   HydroPlan - dynamic non-linear modelling of Hydropower Plants
   F. Haller, D. Wimmesberger (DAGOPT Optimization Technologies GmbH), B. Gotthardt (Salzburg AG)

12.30 Lunch Break

13.50 SESSION 5: Environmental performance and geo-information systems
   Snow Power– Unmanned Aerial Vehicle (UAV) based snow depth measurement using digital photogrammetry supporting snowmelt forecast in alpine regions
   Dr S. Frey (Verbund Trading GmbH), MSc C. Katzler (VUM Verfahren Ummwelt Management GmbH)

   Benefits of modern 3D Visualization: 3 Usecases in Salzburg AG Hydro Power Plants
   M. Matschl (Salzburg AG), Dr T. Nemetz (Ocean Maps GmbH)

   Virtual River 4.0 - Quality management and training for HPP and flood protection systems
   G. Reichel (GRConsulting e.U.)

15.30 Closing