

# Polish Hydropower Conference

## RENEXPO® Poland Hydropower 2018

Bielsko-Biala / Porąbka Żar HPP, September 20-21st 2018

### BULLETIN NO 2

### Conference Programme

Towarzystwo Elektrowni Wodnych



Polish Hydropower Association  
(TEW)



The Szewalski  
Institute of Fluid-Flow Machinery  
of the Polish Academy of Sciences  
(IMP PAN)



Polish Association  
for Small Hydropower Development  
(TRMEW)



REECO Austria GmbH



Energia Odnawialna S.A.

### VIIIth Polish Hydropower Conference RENEXPO Poland

Since the beginning of this decade the RENEXPO Poland hydropower conferences have emerged as a generally acknowledged platform for discussion on challenges encountered by the hydropower sector in Poland and other European countries in view of changes in its legal & administrative constraints, but also capabilities resulting from the hydropower potential, available technology and environmental requirements. Our events provide a unique opportunity in the region for exchange of opinions and information on observed trends and prospects for the sector, as well as experience on erection and operation of hydropower installations, new solutions to technical problems and the results of R&D efforts. Our events provide a unique opportunity in the region for exchange of opinions and information on observed trends and prospects for the sector, as well as experience on erection and operation of hydropower installations, new solutions to technical problems and the results of R&D efforts. The conferences are addressed mainly, but not exclusively, to the representatives of Central-Eastern and Northern Europe. Thanks to engagement of the Norwegian Embassy representatives of the Norwegian companies and institutions usually attend our events. The debate is carried out in Polish and English with simultaneous interpretation.

This year event takes place at the XXX-th anniversary of establishing the Polish Association for Small Hydropower Development - one of conference organisers. For the first time the debate will take place outside Warsaw. The Conference venue will be Ibis Hotel in Bielsko-Biala will offer an opportunity for a study visit in Żar Pumped Storage Power Plant.

As usual, the conference package will comprise the annual subscription of *Energetyka Wodna*, access to the electronic version of presentations and printed proceedings with extended abstracts of conference contributions (up to two pages of Times Roman 10 pt print). The Book of Abstracts will be published and assigned an ISBN serial number by the Szewalski Institute of Fluid-Flow Machinery Publishers. The authors of selected contributions will be invited to prepare post-conference papers to be published in the English-language peer-viewed journals *Acta Energetica* and *Transactions of the Institute of Fluid-Flow Machinery*. The invitations will be consulted with the Conference Scientific Committee. The papers addressed to a broader circle of readers will be published by the *Energetyka Wodna* quarterly basing on the recommendation issued by the Organising Committee.

Publishing collaboration and media patronage

**ENERGETYKA  
WODNA**



**CIRE.PL**

**GRAMwZIELONE.pl**  
portal zielonej energii

**ActaEnergetica** **zek**  
POWER ENGINEERING QUARTERLY

## Conference venue

Konferencja będzie obradować w sali **B** hotelu **Ibis Styles** w Bielsku-Białą in the Dielesian Voivodship (address: ul. Żywiecka 93, 43-100 Bielsko Biała). The hotel offers comfortable single and double-bed rooms.

Thanks to the S1 highway and railway connections Bielsko-Biała is conveniently communicated with the rest of Poland. The railway travel from Katowice takes about 1 hour. Hotel is situated in the distance of about 3,5 km from the railway station. It can be reached, among others by bus lines no 2 (bus stop at Piastowska St., direction: Mikuszowice) or 11 (bus stop at Warszawska St., direction: Straconka). In both cases you should leave the bus at the Żywiecka Hotel stop.

## Conference applications

Participation in the Conference requires registration and payment of the conference fee. You can register to the conference by sending the completed registration form at the following address: **Biuro Towarzystwa Elektrowni Wodnych, ul. Piaskowa 18, 84-240 Reda, Poland**, e-mail: [biuro@tew.pl](mailto:biuro@tew.pl). The form and further information are available at TEW and from our websites [www.tew.pl](http://www.tew.pl), [www.trmew.pl](http://www.trmew.pl), and [www.imp.gda.pl](http://www.imp.gda.pl). Registration from the RENEXPO Poland website is possible as well. Registration will form the basis for issuing an invoice for participation in the Conference. The net value of the **Conference fee** (€) follows from the table below:

Application date	till 15.08	after 15.08
Basic fee:	200	220
TEW/TRMEW members	170	200
Authors* session chairmen, students	120	150
TEW reception**	20	20

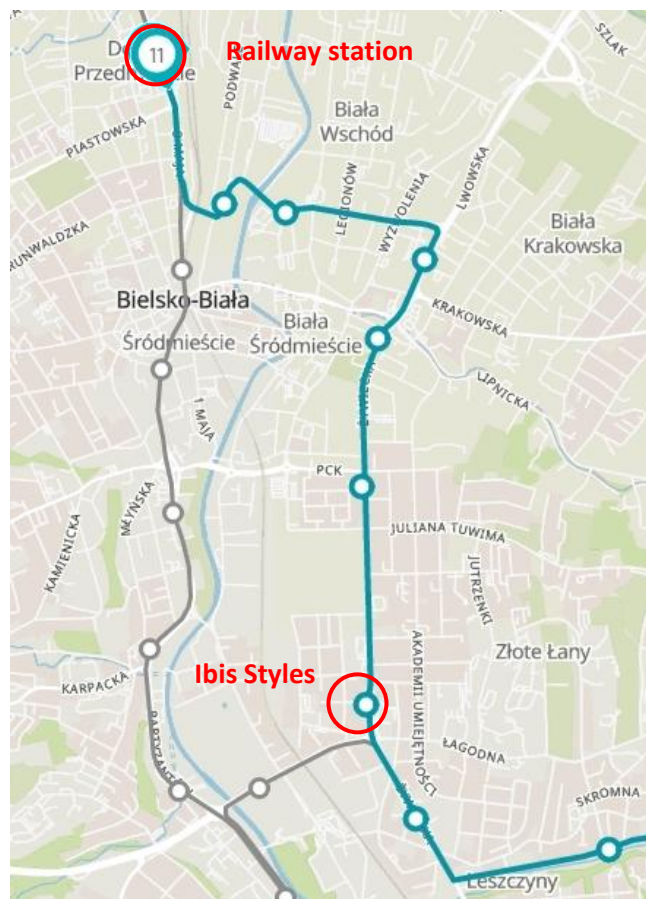
\* 1 per contribution. Only non-commercial papers.

\*\* Reception will take place on the evening before the Conference. The fee does not apply to the members of the TEW National Assembly.

The fee shall be paid at the TEW account, according to the invoice received. The Organisers keep the right for special discounts and free invitations of Conference guests. The conference fee covers participation costs, including the proceedings and the conference dinner at the end of the first day. Hotel is to be paid separately.

## Directions for speakers

With few exceptions 20 minutes have been scheduled for each speaker. After accounting for introduction by the session chairman and a brief discussion, we assume that each presentation should take no more than 12 to 15 minutes. Each speaker will have the conference computer with a projector at his disposal. Please, do not wait with uploading your presentation till the very last moment. In view of the simultaneous interpretation, please, speak clearly to the mike.



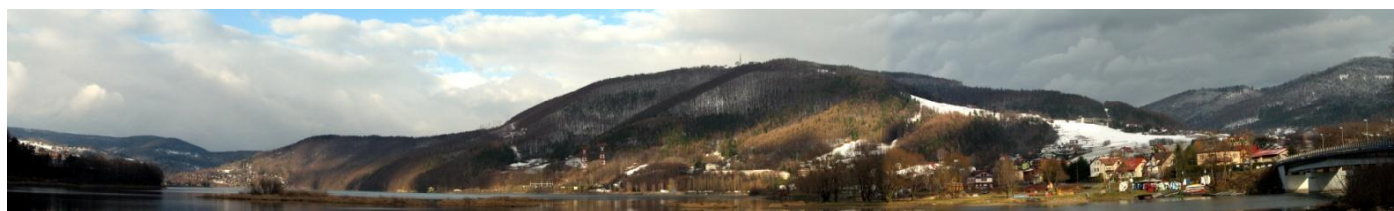
## Conference dinner and TEW Reception

Conference Delegates are invited to the Conference Dinner taking place on September 20th at 20:00 in the Ibis Styles hotel. The cost of the dinner has been included in the Conference fee. Delegates, will be asked to confirm their participation at the Registration Desk. Delegates coming to Bielsko-Biała one day before are also invited to the reception of the Polish Hydropower Association on October 25th. This reception is free of charge solely for delegates of TEW National Assembly and TEW guests

## Study tour

The study tour scope covers the Tresna Dam and the Porąbka-Żar Hydropower Plant. In case of good weather a a tip to the upper reservoir by a funicular railway coaster is planned. We plan preliminarily to leave the hotel at 8:30. The final departure time will be established and announced before the end of the debate on September 20th. The arrival back to the hotel is planned for 15:00. Please let us now if earlier returns are needed.

A microbus kindly offered by the ZEW Porąbka-Żar PGE EO Division will stand to our disposal. A numerous study tour participants have declared using their own cars and offering free places to other persons, we have resigned of booking additional transportation means..

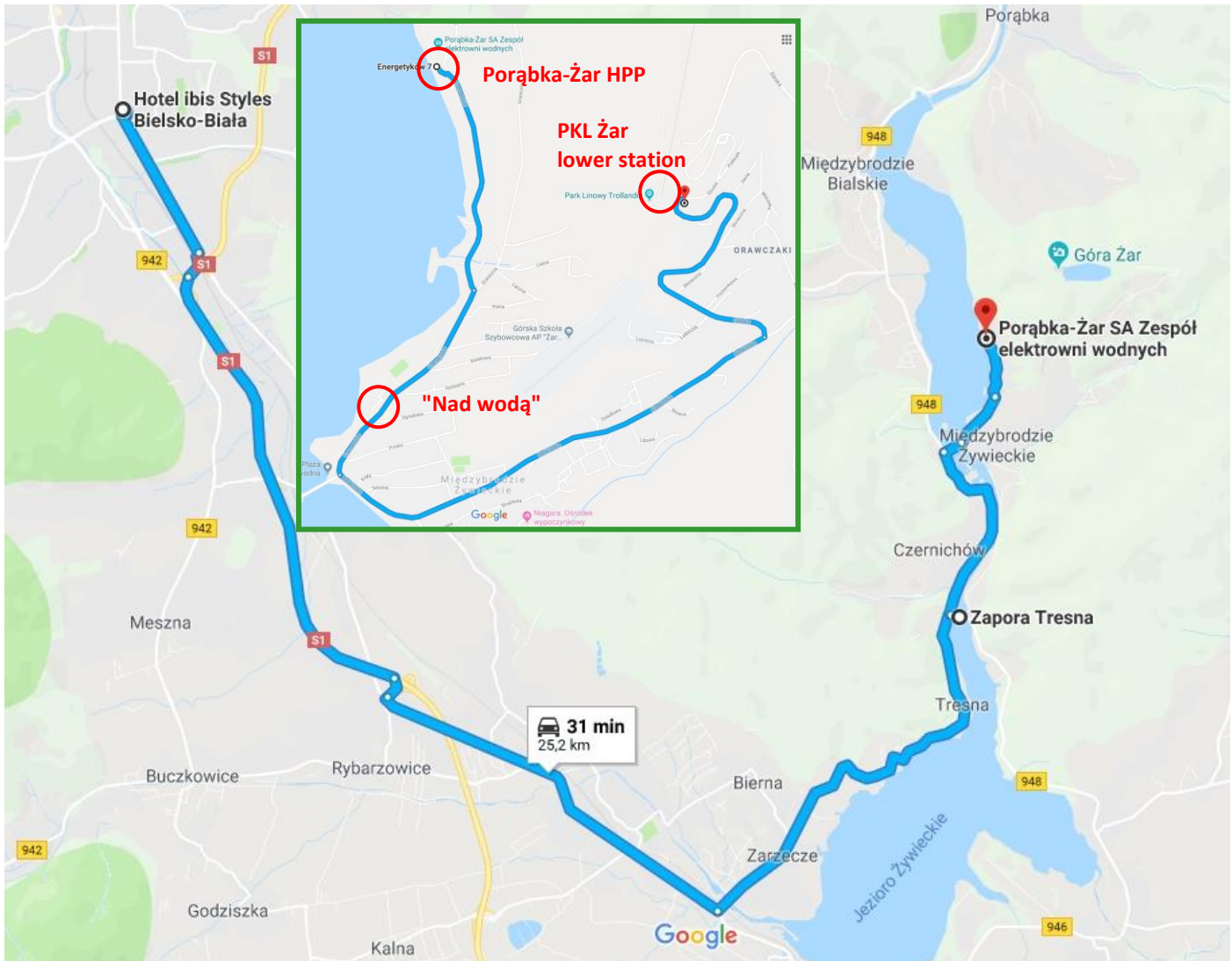


8:00	Registration of the delegates
9:00	<b>Welcome addresses and opening of the Conference</b>
9:10	<b>E.Malicka</b> (TRMEW): <i>Thirty years jubilee of the Polish Association for Small Hydropower Development</i>
9:30	Coffee break
<b>Session I: Law and economy</b>	
10:00	<b>R.Koropis</b> (TRMEW Obrót): <i>Market chances for the hydropower sector in the light of changing legal, organisational and market conditions (PL)</i>
10:20	<b>E.Malicka</b> (TRMEW): <i>Small hydropower plants in the FIP and FIT system, new auction system and under the rule of the new Water Law - the first experiences (PL)</i>
10:40	<b>M.Kubecki</b> (IOZE/TRMEW): <i>Good practices in preparing the small hydro investments within the current legal framework (PL)</i>
11:00	Coffee break
<b>Session II: For a better economic balance - technical advantages and fair cost division</b>	
11:20	<b>A.Czarnecki</b> (ZEW Niedzica): <i>Niedzica Hydropower Plant - a blackstart source for the thermal power plants in the Southern Poland (PL)</i>
11:40	<b>A.Góralczyk, M.Lewandowski, W.Janicki, A.Adamkowski</b> (IMP PAN): <i>Genetic algorithms for the task of optimising the group operation of hydraulic units (PL).</i>
12:00	<b>K.Kurtanidze, V.Kraynik</b> (Ukrhydroproject, Ukraine): <i>The role of the Dniester hydro electrical complex in water resource use of the Dniester River</i>
12:20	<b>M.Lewandowski</b> (IMP PAN/TEW), <b>S.Lewandowski</b> (TEW), <b>K.Trojanowska</b> (TEW): <i>Participation in the water dam maintenance costs - a hot problem (PL)</i>
12:40	<b>M.Lewandowski</b> (IMP PAN/TEW), <b>S.Lewandowski</b> (TEW): <i>Participation in the water barrage maintenance costs - the method of lost benefits (PL)</i>
13:00	Lunch break
<b>Session III: The costs of hydraulic civil engineering structures maintenance. Panel debate</b>	
14:00	<b>S.Lewandowski</b> (TEW): Introduction to the discussion
15:30	Coffee break
<b>Session IV: Hydraulic turbine design with the use of CFD tools</b>	
16:00	<b>S.Pawlak</b> (Acta Energetica): <i>Acta Energetica - professionals about power engineering (PL).</i>
16:10	<b>M.Kaniecki</b> (ZRE Gdańsk): <i>Practical use of the CFD tools for hydraulic turbine design and operation analysis (PL)</i>
16:30	<b>Z.Krzemianowski</b> (IMP PAN): <i>A low-head Kaplan turbine - design of the model wicket gate and runner blading by solving an inverse problem and experimental tests at a laboratory test rig (PL)</i>
10:00	Coffee break
<b>Session V: Hydraulic microturbines and the environmental impact</b>	
17:20	<b>G.Peczki</b> (Silesian University of Technology): <i>Laboratory tests of a Kaplan type picoturbine of a new design (PL)</i>
17:40	<b>L.Šilinis, P.Punys, E.Kasiulis, A. Dumbrasukas, L.Česonienė</b> (A.Stulginskis University, Kaunas): <i>An assessment of the impact of SHP plants on the water environment and possible mitigation measures</i>
18:00	<b>F.Świtala</b> (The Catholic University of Lublin): <i>Flowing waters utilization for renewable energy generation (PL)</i>
18:20	<b>Closing of the 1st day of Conference</b>
20:00	<b>Conference dinner</b>



Session VI (study tour): Tresna Dam and Porąbka Żar Pumped Storage Power Plant

8:30	Departure to the Tresna Dam
9:00	A visit at the Dam
9:30	Departure to the Porąbka-Żar Pumped Storage Power Plant
10:00	Technical visit to the EW Porąbka-Żar PSPP and i closing of the conference
13:00	Joint lunch at the „Nad wodą” (At the water) restaurant



Sponsoring



Printing and binding of the conference material



INSTYTUT ENERGETYKI  
ODDZIAŁ GDAŃSK