

Polish Hydropower Conference HYDROFORUM 2019

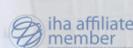
Polanczyk/Solina (Poland), October 10-11th, 2019



BULLETIN no 3 Conference Programme

Organisers and partners

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)



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HYDROFORUM

Polish Hydropower Conferences

The HYDROFORUM Polish Hydropower Conferences continue the PHC RENEXPO Poland conference cycle and the HYDROFORUM series of conferences as organised previously by the Institute of Fluid-Flow Machinery of the Polish Academy of Sciences (IMP PAN). The Conferences form a 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. The debate is attended by representatives of broadly conceived hydropower sector, academic institutions, central and local authorities as well as NGOs. The Conferences are addressed especially to representatives of Central-Eastern and Northern Europe, but delegates from other regions are welcome as well. The debate is usually planned for two days and carried out in Polish and English with simultaneous interpretation support. This year conference venue is located in the South Eastern Poland, in Polanczyk - close to the Solina Dam and Hydropower Plant (200 MW), at the foothills of Eastern Beskid Mountains. The number of delegates is expected to reach about 90.

The honorary patronage over HYDROFORUM 2019 has been taken over by the Polish Ministry of Energy and the Ministry for Maritime Economy and Inland Navigation. The conference is also to be found in the event calendar of the International Hydropower Association. The central item in the Conference Programme is the HYDROFORUM Debate, this year focused on the hydropower position and role in the national strategy documents, especially in the Polish Energy Policy 2040.

The conference package will comprise the annual subscription of *Energetyka Wodna* electronic version, access to the conference presentations and printed abstracts of conference contributions. Opening access to conference presentations will be consulted with the authors. The authors of selected contributions will be invited to prepare post-conference papers to be published in the 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.

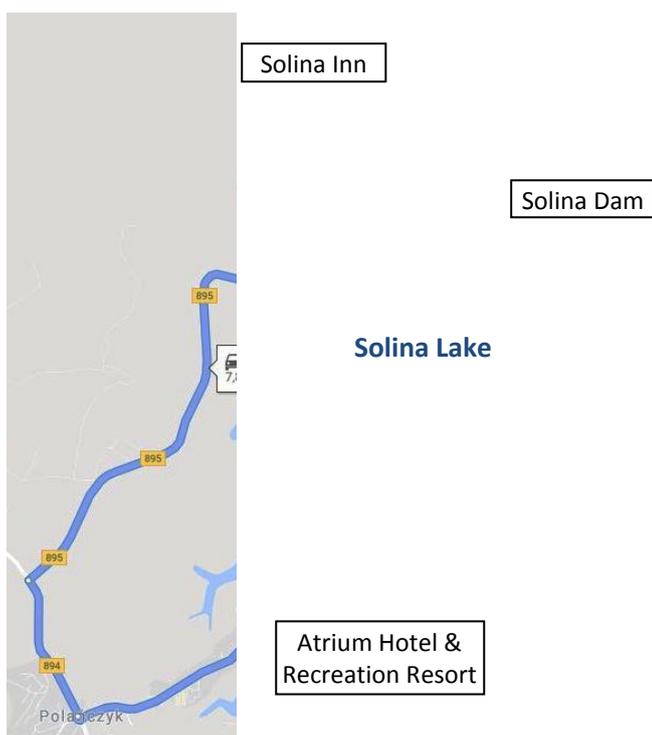
Editorial and medial collaboration

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Conference venue and logistics

The conference venue will be **Atrium Hotel** located in Polanczyk, 28 Zdrojowa St. (GPS 49.373532, 22.435721). The Organisers have been offered preferable room prices of 120 and 150 PLN/night for single-bed room and 180 PLN/night for a twin bed one. If have not registered so far, please book your hotel rooms using your registration form. Free of charge cancellations will be possible till September 30th. The Farewell Dinner will take place on October 10th at **Solina Inn** (*Jędrulowa Chata*) in Solina (GPS 49.400549, 22.445957). Shortly after the dinner (about 4 pm) the study visit to the **Solina Hydropower Plant** will commence. The mentioned visit will complete the Conference programme.



Car route between the Conference venue and Solina Dam

Basing on the applications received we assume that most of the delegates - especially from Poland - will arrive using their own transport means. For those using the public transport, the Organising Committee will provide car transfer opportunity from Sanok and Lesko. For this purpose please advise us on your arrival site and time by an e-mail or a phone call (phone numbers: +48 605 565 586, +48 608 197 185). Please make sure the message has been received in case of using the e-mail or SMS connection. The most convenient way to reach Sanok from Cracow or Rzeszow is to use the bus connection. The buses of *PKS* and *Neobus* lines depart from Rzeszow PKS station (in direct neighbourhood of the railway station) at 10:01, 14:11, 18:41. The departures from Sanok to Rzeszow take place at 10:30, 12:25, 16:30, 21:00. The journey takes about 90 minutes. You can use also the *Galicja Express* buses departing from Sokoła 2 street in Rzeszow.

The departures from the Cracow International Airport in Balice take place at 11:05, 15:30 i 19:05, while those from the Bus International Station at 7:50, 8:30, 11:10, 11:45, 13:40, 16:10, 19:45. The journey to Sanok takes about 4 hours. Some buses go as far as Lesko which is located even closer to the Conference venue. Please consult the bus line operator for further details.

Joining the Conference

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**, phone/fax: +48 58 678 79 51, e-mail: biuro@tew.pl. The form and further are information from our office at the address as above or from the following websites: www.tew.pl, www.trmew.pl, www.imp.gda.pl. The completed registration form will be the basis for issuing an invoice for participation in the Conference. The following fees apply (values including VAT, €):

Basic fee	260
Members of the national hydropower associations*	230
Speakers**, session chairmen, students	170
Accompanying persons	70
TEW Reception***	30

* Also members of some other hydropower associations

** Only non-commercial contributions.

***Free of charge for TEW National Assembly delegates

The fee shall be paid at the TEW account, according to the invoice received. The conference fee covers participation costs, including the proceedings and the Conference Dinner at the end of the first day. Overnights are not included and should be paid individually at the hotel reception desk. The Organisers reserve themselves the right to apply special discounts and to issue free invitations for Conference guests. For further details and application forms, please consult the TEW Office (☎ +48 58 678 79 51, biuro@tew.pl), TEW Hydropower Consulting Bureau (☎ +48 58 5225 130, 139, pkew@imp.gda.pl) and our websites www.tew.pl, www.trmew.pl, www.imp.gda.pl.

Guidelines 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 projector and computer with *MS Power Point* software at his disposal.

In order to streamline the Conference debate the speakers are asked to send their presentations in advance at the steller@imp.gda.pl address. It will be also possible to submit the presentation file to the Organisers directly before the conference or during the coffee breaks. However, 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 October 9th at 19:30 in the Atrium hotel in Polanczyk. 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 staying in Polanczyk after the conference are also invited to the reception of the Polish Hydropower Association on October 10th. The reception is free of charge for delegates of TEW National Assembly and TEW guests

8:00	Registration of delegates
9:00	Opening session
	Welcome addresses by the Organising and Honorary Committee and the director of Solina-Myczkowce HPP Group
9:20	Coffee break
Session I: The status, trends and outlooks for hydropower in Poland and within the region	
9:30	J. Steller (IMP PAN/TEW): <i>Poland and Eastern Europe in the World Small Hydropower Development Report</i> (PL)
09:50	M. Niemiec-Butryn (MME&WM): <i>Intensifying the use of Polish hydropower potential in context of the inland waterways development programmes</i> (PL)
10:10	M. Levytskyi, I. Landau, V. Kraynik (Ukrhydroproject, Kharkiv, Ukraine): <i>Prospects for the development of hydropower of Ukraine, considering the strategy of development of energy systems of Ukraine and the EU</i>
10:30	E. Kasiulis (VMU, Kaunas), L. Šilinis (VMU and University of Applied Sciences, Kaunas, Lithuania): <i>Dam removal in the Baltic States: mission (im) possible?</i>
10:50	E. Malicka (TRMEW): <i>What changes to the Polish small hydro sector have been brought in 2019 and what further ones are to be expected over the coming year</i> (PL)
11:10	B.K. Puchowski (TRMEW/Piła Młyn): <i>20+: What with hydropower installations after finishing their support period? Case study - Part I</i> (PL)
11:30	Coffee break
Session II: Small hydropower and energy recovery in industrial and municipal hydraulic installations	
12:00	G. Wiszniewski (WTW Poland): <i>Survey of the WTW Poland manufacture programme</i> (PL, sponsored contribution)
12:20	J. Steller (IMP PAN/TEW): <i>Energy recovery in industrial and municipal hydraulic installations</i> (PL)
12:40	A. Radzevičius, P. Punys (VMU, Kaunas, Lithuania), R.M. López Fernández, V.I. Serna González (CARTIF, Valladolid, Spain), J. Steller, J. Jagielska (IMP PAN): <i>Web-based atlas of micro-hydro inventory in urban water networks</i>
13:00	Lunch break
Session III: Environmental protection and management of the hydropower civil works	
14:00	L. Jurevičius (VMU), L. Šilinis (VMU and Kaunas University of Applied Sciences, Kaunas), P. Punys (VMU): <i>Optimal operation of a large hydropower reservoir. Case study of Kaunas HPP Reservoir</i>
14:20	A.Kostyra (INORA, PL, sponsored contribution): 1. <i>Underwater sealing by means of an Incomat mattress</i> ; 2. <i>Effective and economic dewatering of sediments</i>
14:35	K. Radzicki (Neostrein, PL, sponsored contribution): <i>Innovative, thermal monitoring method of leakage and erosive processes in embankment dams</i>
14:50	B.K. Puchowski (TRMEW/Piła Młyn): <i>Fish passes. Another point of view - in search of a compromise</i> (PL)
15:10	L. Kalina (Instytut OZE, Kielce): <i>Active fish pass - a case study under Polish conditions</i> (PL)
15:30	M. Puzdrowska, T.Heese (Koszalin University of Technology): <i>The problem of effective fish pass design in the light of recent research on the flowing water stream turbulence</i> (PL)
15:50	Coffee break
Session IV: HYDROFORUM Panel Debate: "Hydropower in national strategy documents. Polish Energy Policy 2040"	
16:15	S. Lewandowski (TEW): Introduction and moderation
17:45	Closure of the first day of Conference
20:00	Conference Dinner (Atrium Hotel)



Conference programme October 10 th, 2019

8:30	Opening of the debate and information from the Organising Committee
Session V: Safety of hydraulic structures and civil engineering works	
08:40	L. Opyrchal , A. Bąk (Military University of Technology, Warsaw): <i>Reliability function and mean lifetime of water dams (PL)</i>
09:00	L. Kwapisz , A. Adamkowski, M. Lewandowski (IMP PAN): <i>Stress state in steel hydropower pipelines - selected problems (PL)</i>
09:20	M. Lewandowski , A. Adamkowski (IMP PAN), S. Lewandowski (Easy Serv / TEW): <i>The effects and identified causes of the uncontrolled waterhammer phenomenon in hydropower flow systems (PL)</i>
9:40	Coffee break
Session VI: Hydropower machinery and equipment operation, upgrading and testing	
10:00	E. Malicka (TRMEW), J. Steller (IMP PAN): <i>HYPOSO - Hydropower solutions for developing and emerging countries</i>
10:10	A. Błaszczuk , M. Nawrocki, D. Woźniak (P.B.W. HYDRO-POMP Sp. z o. o., Łódź): <i>Upgrading the control system of a Kaplan turbine unit (PL)</i>
10:30	S. Thomson , G. Auger, G. Ren (Thordon Bearings Inc., Burlington, Ontario, Canada): <i>Reducing Maintenance with Water Lubricated Turbine Guide Bearings - Design Principles & Case Studies</i>
10:50	A. Maurin (IMP PAN): <i>Water level measurement during hydraulic unit tests at hydropower installations (PL)</i>
11:10	Coffee break
Session VII: Hydraulic turbine design techniques and other R&D activities	
11:30	M. Kaniecki (ZRE Gdańsk): <i>The influence of selected design parameters on the performance and operational properties of Kaplan turbine runners (PL)</i>
11:50	Z. Krzemianowski , J. Steller (IMP PAN): <i>Design of a high specific speed Francis turbine blading by solving the inverse fluid mechanics problem and applying the CFD based optimisation techniques. Computational and model test results (PL)</i>
12:10	P. Szulc , D. Błoński (Wrocław University of Technology, Mechanical and Power Engineering Faculty): <i>The influence of design parameters on performance of a hydrokinetic water turbine (PL)</i>
12:30	D. Błoński , P. Szulc (Wrocław University of Technology, Mechanical and Power Engineering Faculty): <i>Numerical optimisation of the diffuser shape for the purpose of improving performance of a hydrokinetic turbine (PL)</i>
12:50	Closing ceremony
13:30	Car transfer to Solina Inn (Jędrulowa Chata)
14:00	Farewall Dinner in Solina Inn (Jędrulowa Chata)
15:30	Car transfer to Solina Hydropower Plant
16:00	Study visit to Solina Hydropower Plant and Dam
20:00	Reception of the Polish Hydropower Association (Atrium Hotel)

Abbreviations: PL - contribution to be delivered in Polish; IMP PAN - Szwedzki Instytut Maszyn Przepływowych Polskiej Akademii Nauk, MME&WM - Polish Ministry of Maritime Economy and Inland Navigation; TEW - Polish Hydropower Association; TRMEW - Polish Association for Small Hydropower Development; VMU - Vytautas Magnus University, Kaunas, Lithuania

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