

P O L S K A A K A D E M I A N A U K
INSTYTUT MASZYN PRZEPŁYWOWYCH

PRACE
INSTYTUTU MASZYN
PRZEPŁYWOWYCH

TRANSACTIONS
OF THE INSTITUTE OF FLUID-FLOW MACHINERY

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PAŃSTWOWE WYDAWNICTWO NAUKOWE

PRACE INSTYTUTU MASZYN PRZEPŁYWOWYCH

poświęcone są publikacjom naukowym z zakresu teorii i badań doświadczalnych w dziedzinie mechaniki i termodynamiki przepływów, ze szczególnym uwzględnieniem problematyki maszyn przepływowych

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**THE TRANSACTIONS OF THE INSTITUTE OF FLUID-FLOW
MACHINERY**

exist for the publication of theoretical and experimental investigations of all aspects of the mechanics and thermodynamics of fluid-flow with special reference to fluid-flow machinery

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III KONFERENCJA NAUKOWA

na temat

TURBINY PAROWE WIELKIEJ MOCY

Gdańsk, 24 - 27 września 1974 r.

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IIIrd SCIENTIFIC CONFERENCE

on

STEAM TURBINES OF GREAT OUTPUT

Gdańsk, September 24 - 27, 1974

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III НАУЧНАЯ КОНФЕРЕНЦИЯ

на тему

ПАРОВЫЕ ТУРБИНЫ БОЛЬШОЙ МОЩНОСТИ

Гданьск, 24 - 27 сентября 1974 г.

PROF. DR HAB. JERZY KRZYŻANOWSKI

Przewodniczący Komitetu Organizacyjnego
Chairman of the Organizing Committee

Ladies and Gentlemen,

This is my honor and privilege to open the Conference on Steam Turbines of Great Output on behalf of the Organizing Committee, on behalf of the Management of the Institute of Fluid-Flow Machinery of the Polish Academy of Sciences and on behalf of the Management of the Zamech Mechanical Works.

This is already the III Conference on Steam Turbines of Great Output. It follows the two previous conferences organized by IFFM in 1962 and 1967. One can therefore speak about certain tradition of our Conferences. This time the Conference is arranged for the first time together with Zamech. May this symbolise the increasing co-operation between science and technology all over the world and in particular in the world of Fluid-Flow Machines.

Our intention is to arrange the conditions and framework for the information and opinion exchange on the research of fundamental problems and physical phenomena which restrict in some sense the further development of modern steam turbines. Traditionally therefore the emphasis is put on: cycle thermodynamics, fluid mechanics with wet vapor flows and erosion particularly, mechanics of solids with dynamics of blading, rotors and bearings particularly, control and automation. At this conference, perhaps in larger extent than before, attention is given also to the tendencies in steam turbine design and to the recent achievements of the steam turbine producers.

I do however believe that this is not only the listening to a series of lectures and papers which is the most important aim of the conference. Meeting people, making acquaintances and friendships is perhaps even more valuable.

I do sincerely hope that this conference will contribute to both these goals. We, the organizers, will do our best in order to arrange the formal and informal opportunities of coming together. To this end the formal sessions and discussion will be arranged whereas the excursions to Westerplatte and Frombork as well as the cocktail-party and the banquet will contribute to the informal part of our meeting.

Before I will give the floor to Prof. Szewalski, the Chairman of our first session, it is my pleasure to welcome all our guests from abroad and also Polish colleagues. We are extremely happy having this time here at our Conference over 50 participants from abroad. The Universities, Governmental Institutes and Organisations and Producers are represen-

ted. I do hope that it will stimulate all Polish participants of the Conference to serve our guests from abroad as hosts, guides and friends.

This is also my pleasure to forward to all of you the warm greetings of the Authorities of the Polish Academy of Sciences and in particular of the Secretary of the IV Department of Technical Sciences Prof. Maciej Nałęcz and Witold Gutkowski.

I wish you an enjoyable stay here in Gdańsk and hope you will find the Conference interesting and stimulating and your traveling rewarding.