

20th Conference on Power System Engineering

Lukas Richter^{1*}, Martin Pelikan¹, Michal Volf¹ and Michaela Vackova¹

¹University of West Bohemia in Pilsen, Univerzitni 22, 306 14 Pilsen, Czech Republic.

Abstract. The Conference on Power System Engineering has a long-term tradition. It is an annual meeting of professors and experts from departments and universities where power system engineering is taught. The 20th year of this event was held in Pilsen (Czech Republic) between 7th and 9th September 2021 and was hosted by Department of Power System Engineering of Faculty of Mechanical Engineering, University of West Bohemia in Pilsen.

1 Preface

There were 74 delegates from academic and industrial field who came from the Czech Republic, the Slovak Republic, Germany, Hungary, Poland, Ukraine and Russia. The conference was launched by the rector of the University of West Bohemia. The organizers received 35 contributions. 34 contributions have gone through a professional review for the publication. All presentations brought contributions to the fields of equipment for classic and nuclear power plants including their operation, fluid mechanics and flow simulations, thermodynamics, heat transfer, diagnostics of power machines and equipment etc.

The social evening with a programme gave the delegates an opportunity to meet their colleagues, share and discuss their experience and results of their research projects in less formal environment. The participants could also visit the world-famous brewery Pilsner Urquell. The programme of the conference included also a student section, in which especially Ph.D. students have an opportunity to present their contributions or posters.

The conference was financially supported by a Visegrad grant. The main goal of the grant is to build an international network of scientists and experts in the V4 region with the focus on energy savings, efficiency and reliability increase in various industrial processes, development and implementation of emission-free technologies. At a time of transformation of the energy industry caused by the ever-increasing demand not only for electricity, but also for other forms of energy, decarbonization and the reduction of fossil fuel reserves, it is necessary to work especially in academia to develop new technologies and methods to implement energy savings. The issue of energy savings is currently addressed to some extent by all the grant partners. However, since each workplace has a certain area of focus, the results of such research have limited scope. Only the international cooperation of these workplaces offers a comprehensive solution, because only then is it possible to communicate experience and knowledge in specific areas in order to harmonize the activities of the individual workplaces.

* Corresponding editor: richterl@kke.zcu.cz



Fig. 1. Visegrad fund – Project ID/Title: 22110166/ Conference on Power System Engineering 2021.

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Fig. 2. Logos of sponsoring organizations.