

PREFACE

The International Scientific and Practical Conference “Environmental Risks and Safety in Mechanical Engineering” ERSME-2020 dedicated to the 90th anniversary of Don State Technical University (Rostov-on-Don Institute of Agricultural Engineering) was organized and held by Don State Technical University with the support of Eurasian technology platform “Technologies of food and processing industry of agro-industrial complex – healthy food products” (TFPI AIC Association), Voronezh State University of Engineering Technologies, Territorial cluster “Dolina Dona”, Voluntary certification system “Made in Don Land”, the Union of Employers of the Rostov Region, “Tekhmash” Plant, Agrotechnological holding “Bizon”, “Lemken”, “Wintersteiger”, “Amazonen-Werke” and LLC “Rostselmash”.

ERSME-2020 took place on October 20, 2020. The event was held both face-to-face and remotely with taking all precautions to curb the spread of new infection COVID-19 caused by the coronavirus.

The conference was held together with leading scientists, specialists and experts in various fields of activity from both Russia and other countries: Romania, Serbia, Brazil, Chinese People's Republic, Georgia, Armenia, Kazakhstan, etc. At the conference, more than 240 reports were presented. All presented reports complied with the main directions of the Conference: Environmental monitoring and protection, Natural Resource and Soil Management, Regional Environmental Policy, Agricultural and Food Economics, Modern problems of technosphere safety.

The aim of ERSME-2020 was to exchange experience and define modern scientific directions in the field of safety of technological processes and production, environmental protection, as well as to solve design and technological problems of improving the quality, productivity, environmental friendliness and competitiveness of high-tech mechanical engineering products. The conference allowed specialists to contribute their efforts to the creation and industrial use of science-intensive technologies at enterprises of engineering industry with taking into account of the provision of safe conditions at industrial and social facilities, as well as to solve environmentally significant scientific and practical problems.

All papers passed through rigorous scientific and technical review. Only works that presented results of original research were accepted.

The program and organizational committees, as well as all the participants of ERSME-2020 thank the partners and the team of *E3S Web of Conferences* for publishing the proceedings of the conference.

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