

Preface

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Scientific and Practical Conference Environmental Risks and Safety in Mechanical Engineering

Scientific and practice conference Environmental Risks and Safety in Mechanical Engineering ERSME-2023 took place on March 1-3, 2023.

The purpose of ERSME-2023 was to exchange the experience and define modern scientific directions in the field of safety of technological processes and production, environmental protection. The researchers worked on solving some design and technological problems in order to improve the quality, productivity, environmental friendliness and competitiveness of high-tech mechanical engineering products. The conference agenda was focused on the integration of specialists' efforts for the creation and industrial use of science-intensive technologies at enterprises of the engineering industry, with provision of safe conditions at industrial and social facilities. The researchers presented their scientific achievements in the area of environmental sustainability and security.

Another objective of the conference was to establish contacts within the scientific community, to encourage joint projects that would unite researchers from different countries. The organizers of the conference believe that international communication between scientists contributes to ecological and economic stability and advances the environment of industrial regions and big cities.

Latest scientific reports show dramatic changes in the world's climate. Higher temperatures and intensified weather events result in huge costs for the world's economy and have an impact on countries' ability to produce food.

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Changes to rainfall patterns, river flooding, forest fires cause damage to countries' economy every year.

The new goal is to reduce emissions by at least 55% by 2030.

Leaders called to put forward proposals so that countries could reach the 2030 goal, including by: improving green finance standards and spurring climate-friendly innovation.

The research works presented in the framework of the conference were dedicated to the ways of reduction of greenhouse gas emissions.

to progressively reduce emissions and ultimately reach climate neutrality.

ERSME-2023 contributes to the process of fighting climate change and supports global partners in international fora accelerating actions aimed at limiting global warming.

The reports were focused on atmospheric consequences of human activities and their implications for ecological health.

All work has passed rigorous scientific and technical selection. Only works containing detailed original reports of significant advances and discoveries in all aspects of Environmental Science were accepted.

The participants presented their reports within the framework of several workshops dedicated to various topics: Air Quality and Atmosphere, Environmental Chemistry, Environmental geochemistry and health, Improving the sustainability of metal-producing industries, Water Chemistry and Technology.

The event was held together with leading scientists, specialists and experts from various fields of activity both from Russia and from other countries: Turkey, Bulgaria, Syria, Iran, Georgia, Uzbekistan, Kazakhstan, etc. At the conference there were presented more than 340 reports, total number of participants was more than 720 people.

The organizers of the conference believe that they are making a significant contribution to ecological stability and environmental improvement.

The organizers and participants of ERSME-2023 are grateful to the EDP Sciences publishing house and the management team of the E3S Web of Conference journal for publishing the proceeding of the conference.

On behalf of the organizing committee,
Sanja Kovačević (Guest Editor)