The XI International Scientific and Practical Conference «Innovative Technologies in Environmental Science and Education» (ITSE 2023) took place on September 4 – 10, 2023, in the student sport and healthcare complex “Raduga” of Don State Technical University. The event was dedicated to the 300th anniversary of the Russian Academy of Sciences and was held in both face-to-face and remote form.

The conference is annually organized and held with the support of the Ministry of Science and Higher Education of the Russian Federation, the Ministry of Agriculture of the Russian Federation, Ministry of Agriculture and Food of the Rostov Region. Agricultural research center «Donskoy» and Territorial cluster «Dolina Dona» are also the co-organizers of the event.

The purposes of the Conference consisted in the consolidation of scientific community resources in order to determine ways to solve practical problems in scientific, educational and industrial processes; introduction of innovative technologies in various fields of activity; networking development between Russian universities and industrial partners; implementation of educational programs based on innovative technologies development.

ITSE became a real tradition, since it annually gathers hundreds of scientists, professors, young researchers and specialists of leading enterprises of Russia and the near-abroad countries. The conference is a platform for exchanging experience and discussed trends in development of technologies, science and quality of education. All the participants got the opportunity to share their views on prospects of their partnership and cooperation.

More than 400 scientists delivered their reports within the framework of the conference. Among them were representatives of agricultural research center «Donskoy», Rostselmash Combine Factory, V.I. Vernadsky Crimean Federal University, Samara State Agricultural Academy, Kerch State Marine Technology
University, Kuban State Agrarian University, Krasnodar Research Centre for Animal Husbandry and Veterinary Medicine and others. The organizing committee attracted scientists and specialists in various fields of activity from more than 10 countries: People's Republic of China, Egypt, Palestine, Brazil, Belgium, Turkey, Kazakhstan, Republic of Belarus, Armenia, Serbia, Syria, etc.

The conference covered a wide range of topics including the following: Innovation in solving food security problems; Innovative trends in the development of modern engineering; Innovative ways of development of education and science; Innovative trends in the development of the world community: globalization, digitalization, greening, economic efficiency; Smart hydraulics; Agrobioengineering of essential oil and medicinal plants; Biotechnical systems and technologies; Gamification and interactive media technologies; Legal regulation of the agro-industrial complex; Development of genetic technologies at a technical university; Aquaculture: prospects for development of the south of Russia; Trends in the development of modern landscape architecture; Mathematical modeling of applied problems of mechanics, etc.

The program and organizing committees, as well as all the participants of the conference express their gratitude to the partners and the team of E3S Web of Conferences for publishing papers of ITSE 2023.