PREFACE

Don State Technical University, Faculty of Agribusiness, organized and hosted the annual XVI International Scientific and Practical Conference «State and Development Prospects of Agribusiness» INTERAGROMASH 2023 on March 1-5, 2023. The event was held within the framework of XXVI Agribusiness Forum of the South of Russia and INTERAGROMASH exhibition.

The co-organizers of the conference were the Ministry of Agriculture of the Russian Federation, the Ministry of Agriculture and Food of Rostov Region, National University of Civil Engineering (NUCE) of Vietnam, Tajik State Finance and Economics University, Tajikistan, Agrarian Scientific Center “Donskoy” and Moscow Region State University.

The conference took place with the support of such institutions and organizations as Congress and Exhibition Center «DonExpocentre», Rutgers University of New Jersey (USA), Southern Scientific Center of the Russian Academy of Sciences, Territorial cluster «Dolina Dona», Voluntary certification system «Made in Don land», the Department of Agricultural Sciences of the Russian Academy of Sciences, Ministry of Science and Higher Education of the Russian Federation, the Technological Platform «Technologies of the Food and Processing Industry of the Agro-Industrial Complex - Healthy Food Products», as well as industrial partners «Lemken», «Wintersteiger», «Amazonen-Werke», «Rostselmash» and Agrotechnological holding «Bizon», Machine-building plant LLC «BONUM», LLC «GROUP AGROKOM», Research laboratory «Agrobiotechnology Center» DSTU.

The information partners of the conference were the international publishing house EuroMedia and National Agrarian Agency.

The conference INTERAGROMASH 2023 brought together a large number of scientists and specialists from Russia and abroad. More than 300 reports were presented, the total number of participants was approximately 2000 people. All papers submitted for the conference have passed a rigorous scientific and technical selection.

INTERAGROMASH 2023 became a modern platform for the exchange of the latest achievements and developments in agribusiness. The participants got an opportunity to discuss the prospects for science and education in the context of agribusiness. The conference has covered a wide range of problems and matters concerning the entire agribusiness sector within the framework of such thematic sections as Automation and digital technologies in agribusiness; Agrochemistry; Fish farming; Biotechnology; Landscaping and Green architecture; Veterinary science; Farm animals feeding; Machines and equipment for selection and seed production; Mathematical modeling in applied mechanics; Agricultural mechanization and electrification; Environmental protection in agribusiness; Food industry; Soil science; Aspects of training personnel in agribusiness; Agribusiness economics, etc.
The scientific committee comprised a plenty of academic specialists and notable persons in the field of agribusiness:

**Dmitry Rudoy**, organizer and curator of the «ITNO» and «Interagromash» Conferences since 2013. Dean of the Faculty of Agribusiness, DSTU, Head of a specialized organization territorial cluster «Dolina Dona» of Rostov region, Deputy Head and leading researcher of the Research Laboratory «Agrobiotechnology Center», Candidate of Technical Sciences, Associate Professor of the Department of Technics and Technologies of Food Production, DSTU.

**Besarion Meskhi**, Don State Technical University Rector, Doctor of Technical Sciences, Professor, member of the Georgian National Academy of Sciences, member of the Central Council of the All-Russian Society of Inventors and Rationalizers

**Yury Lachuga**, Academician-secretary of the Department of Agricultural Sciences of the Russian Academy of Sciences, academician and member of the Russian Academy of Sciences, Doctor of Technical Sciences, Professor.

**Irina Donnik**, Vice President of the Russian Academy of Sciences, Academician of the Russian Academy of Sciences

**Andrey Izmaylov**, Director of Federal Scientific Agroengineering Center VIM, academician and Presidium member of the Russian Academy of Sciences, Doctor of Technical Sciences.

**Alina Osmakova**, Executive Director of the Association "Technological platform BioTech2030"

**Gennady Matishov**, Scientific Director of the Southern Scientific Center of the Russian Academy of Sciences, academician of the Russian Academy of Sciences, Doctor of Geographical Sciences, Professor.

**Viktor Buxmann**, Advisor of the Amazonen-Werke H. Dreyer GmbH & Co. KG (Germany)

**Sergey Sukhovenko**, General Director of the Agrotechnological holding «Bizon», awarded the title «Russian quality leader», Deputy of the Legislative Assembly of the IV-VI convocations, member of the «United Russia» faction.

**Alexander Mikhaylenko**, General Director of the Machine-Building Plant LLC "Bonum"

**G.Y. Krasnikov**, President of the Russian Academy of Sciences, Academician of the Russian Academy of Sciences;

**G.I. Kvesitadze**, President of the National Academy of Sciences of Georgia, Academician of the National Academy of Sciences of Georgia;

**Y.P. Lobachevsky**, Academician-Secretary of the Department of Agricultural Sciences of the Russian Academy of Sciences, Academician of the Russian Academy of Sciences;

**V.D. Popov**, Academician of the Russian Academy of Sciences;

**P.P. Kazakevich**, Vice-President, Academician of the National Academy of Sciences of Belarus;
N.P. Aleshin, Chairman of the Council of FUMO in the system of higher education in the enlarged group of specialties and areas of training 15.00.00 “Mechanical Engineering”, Academician of the Russian Academy of Sciences.

P.N. Ermakov, Vice-President of RPO, Academician of RAO;

I.V. Abakumova, Dean of the Faculty of Psychology, Pedagogy and Defectology of DSTU, Academician of RAO.

Anastasia Olshevskaya, Deputy Dean for Strategic and Digital Development of the faculty “Agro-industrial”, Deputy head of the Center for the Development of the territorial cluster "Don Valley", Associate Professor of the Department "Technologies and equipment for processing products of the agro-industrial complex" DSTU.

The Organizing Committee, as well as the conference participants, would like to express their gratitude to the partners and to journal E3S Web of Conferences for the publication of papers of INTERAGROMASH 2023.