



AGRITECH

Agribusiness, Environmental
Engineering and Biotechnologies



RUSSIAN AND
INTERNATIONAL UNION
OF SCIENTIFIC AND
ENGINEERING ASSOCIATIONS



Science and Technology City Hall

KRASNOYARSK, RUSSIA



TIQXMMI
Тошкент Илмий ва Иқтисод Хўжалиги
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IOP Conference Series

V International Conference on Agribusiness, Environmental Engineering and Biotechnologies – AGRITECH-V - 2021

Krasnoyarsk – Volgograd (Russia) - Bukhara (Uzbekistan), 16-19 June 2021

Conference Programme (Face-to-face & Virtual Sessions)

June 16, 2021 - 10.00 (Moscow)

Video presentations of conference participants - session in Zoom

https://us02web.zoom.us/meeting/register/tZYldOGsrTosEtZgyupb2f13LZthID7_Znx

June 17, 2021 - 10.00 (Moscow) - Volgograd, Russia

Section "INNOVATIVE DEVELOPMENT OF AGRICULTURAL AND FOOD TECHNOLOGIES",
Volga Research Institute for the production and processing of meat and dairy products, Volgograd, st.
Rokossovsky, 6.

<https://meet.google.com/tkv-ytkq-mnz>

**June 18, 2021 - 10.00 (Moscow) - Krasnoyarsk State Agrarian University, Krasnoyarsk, Russia
(and ZOOM)**

Krasnoyarsk, st. Stasova, 44I, room. 209

https://us02web.zoom.us/meeting/register/tZYqc-ivqzMiHNFSLWeXLg7pyLYF1W_krw1e

**June 19, 2021 at 09.00 (Bukhara) - Bukhara Engineering Technological Institute, Bukhara,
Uzbekistan (and Zoom)**

<https://us02web.zoom.us/j/87659402117?pwd=K3J3cWhXWEx5bXFkZm5wSjBjT0NFZz09>

Conference ID 876 5940 2117

Scientific session online and with limited face-to-face participation by prior registration at the Bukhara
Engineering Technological Institute (Bukhara, Uzbekistan)

June 16, 2021 - 10.00 (Moscow)

Video presentations of the participants

Join Zoom meeting

[https://us02web.zoom.us/meeting/register/tZYldOGsrTosEtZgyyupb2f13LZthlD7_Znx](https://us02web.zoom.us/join/https://us02web.zoom.us/meeting/register/tZYldOGsrTosEtZgyyupb2f13LZthlD7_Znx)

Kinetics of sea buckthorn juice concentration by freezing	V Yu Ovsyannikov, A I Klyuchnikov, N N Lobacheva, V V Toroptsev and D V Klyuchnikova	Federal State Budget Educational Institution of Higher Education "Voronezh State University of Engineering Technologies", Voronezh, Russia
Vegetation changes in the chemical composition of <i>Rosa acicularis</i>	E V Shanina	Krasnoyarsk State Agrarian University, Krasnoyarsk, Russia
Influence of precursors and seeding rates on rapeseed productivity	E A Cherkasova	Northern Trans-Ural State agricultural university, Tyumen, Russia
Testing Polysaccharide Storage Myoparty PSSM1 in different horse breeds	N V Blohina, S I Sorokin, L A Khrabrova, A A Zelenchenkova and B Z Bazarov	All-Russian Research Institute for Horse breeding, Divovo, Ryazan Region, Laboratory "Horse Gene", Moscow, Federal Science Center for Animal Husbandry named after Academy Member L.K. Ernst, Dubrovitsy, Scientific Research Institute of Veterinary Medicine of Eastern Siberia – Branch of the Siberian Federal Scientific Centre of Agro-BioTechnologies of the Russian Academy of Sciences, Chita, Russia
Role of river crayfish <i>Pontastacus leptodactylus</i> (Esch.) in maintaining the stability of freshwater bodies in Eurasia	E N Alexandrova and K L Tarasov	The all-Russian Research Institute of integrated fish farming (VNIIR) – branch of the Federal State Budgetary Scientific Institution "Federal Research Center for Livestock – VIZh", Moscow Region, Noginsk District, Pos. Vorovskogo; Moscow State University, Moscow, Russia
Solvent sublation as a method of lanthanides recovery from weak solutions	O L Lobacheva, N V Dzhevaga	Saint-Petersburg Mining University, Saint-Petersburg, Russia
Destruction mechanisms of materials grinding in a crusher with plates in a form of Reuleaux Triangle profile	D A Krivov, Y I Gordeev and D.D. Krivova	Krasnoyarsk State Agrarian University; Siberian Federal University, Krasnoyarsk, Russia

Video reports are posted on the conference materials website:

<https://conf.domnit.ru/en/materials/agritech-2021/>

June 17, 2021 - 10.00 (Moscow)

Volgograd - Federal State Budgetary Scientific Institution "Povolzhsky Research Institute for the Production and Processing of Meat and Dairy Products", st. Rokossovsky, 6

Assembly hall of GNU NIIMMP and Google meet online platform

<https://meet.google.com/tkv-ytkq-mnz>

09:45 - Exhibition of the winners of the competition.

10:00 - Greetings from the Director of the State Scientific Institution NIIMMP, Corr. RAS RAS
Marina Slozhenkina

10:10 - Opening, welcoming speech of the chairman of the agriculture committee of the Volgograd region, Marina Morozova

Greetings from the Vice-President of the Russian Academy of Sciences, Academician of the Russian Academy of Sciences Irina Donnik;

Welcoming speech of the President of the Academy of Food Security, Corresponding Member RAS
Valery Sergeev

Welcoming speech of the Ataman of the All-Kuban Cossack Host, Doctor of Agricultural Sciences, Professor of the Kuban State Agrarian University named after I. T. Trubilin Vasily Komlatsky.

Welcome speech from representatives of Serbia, Belarus, Ireland, Kyrgyzstan, Iran, etc.

**PLENARY SESSION AND SPEECHES OF SPEAKERS, STUDENTS, MASTERS,
REPRESENTATIVES OF THE PROCESSING INDUSTRY**

Ivan Gorlov, Doctor of Agricultural Sciences, Professor, Academician of the Russian Academy of Sciences - Scientific Director of the State Scientific Institution NIIMMP, Russia - "Innovative approaches to ensuring food security in Russia."

Vasily Radchikov, Doctor of Agricultural Sciences, Professor, RUE of the National Academy of Sciences of Belarus for Livestock, Zhodino, Belarus - "Scientific support for the production of livestock products in Belarus."

Milan Petrovich, Ph.D., Deputy Director of the Livestock Institute Belgrade, Serbia - "Problems and Prospects in the Production of Livestock Products in Serbia".

Alireza Seydavi, Doctor of Science, Iran - "Modern trends in the production of livestock and poultry products in Iran."

Ladislav Jacques, Ph.D., INSOL Europe member, Czech Republic - "Supply and Demand in the Field of Modern Technologies and the Innovation Market".

Merim Koichueva, Head of the Department of the Institute of Economics, Doctor of Economics, Professor - National Academy of Sciences of Kyrgyzstan - "Roadmap for the green economy of Kyrgyzstan".

Gilyan Fedotova, Doctor of Economics, Professor, State Scientific Institution NIIMMP, Volgograd - "The Role of Green Management in Biodiversity Conservation".

Ivan Evdokimov, Doctor of Technical Sciences, Professor, NCFU - "Innovative methods of standardization of secondary dairy raw materials in high-tech industries."

Elena Pechura, Ph.D., Senior Researcher Ural Federal Agrarian Research Center of the Ural Branch of the Russian Academy of Sciences, - "Endogenous intoxication of cattle as a factor in reducing vaccine prevention";

Natalya Yurina, Doctor of Agricultural Sciences, Head. department of feeding and physiology of agricultural. animals, Krasnodar Scientific Center for Animal Science and Veterinary Medicine - "Search for new approaches to feeding poultry."

Svetlana Solodova, VolSU, Volgograd, Russia - "Issues of implementation of control of indicators of implementation of the Food Security Doctrine of the Russian Federation".

Natalia Korshunova, National Research University ITMO, St. Petersburg, Russia - Fructose biopolymers contained in the roots of *Heliánthus annuus*.

Qiqige, PRC - "Assessment of the modern meat market in China."

Alexander Kulikovskiy, Ph.D., Federal Research Center of Food Systems named after I.I. V.M. Gorbatova, Moscow, Russia - "Characterization of changes in the proteomic profile of the protein part of the muscle tissue of mutton from animals raised using diets enriched with essential microelements."

Tatiana Giro, Doctor of Technical Sciences, Professor Saratov State Agrarian University - "Molecular genetic studies of microbiocenosis and microstructural features of the small intestine of specially fed rams".

Mikhail Afanasyev, applicant for GNU NIIMMP, - "Development of a method for increasing the productivity, resistance of young sheep based on biophysical methods."

Maxim Sukhov, postgraduate student of Saratov State Agrarian University - "Environmentally friendly technology for the production and storage of mutton in a biocorrected coating"

Marina V. Meznikova, Volgograd State Agrarian University - "An innovative method of 3-D strip spraying during chemical treatment of agricultural crops for the implementation of resource-saving approaches in Strip-till technology."

Nina Zaitseva, 4th year student of NCFU, Russia - Development of technology for the production of pasta using cyanobacteria, planned for release at the new enterprise NPSCh "Intekhprom" LLC.

Maria A. Antsyperova, National Research University ITMO, St. Petersburg, Russia - "Determination of the degree of hydrolysis of lactose in dairy products by the enzymatic colorimetric method".

Irina S. Gaivoronskaya, postgraduate student, All-Russian Research Institute of Starch Products Branch of FSC Food Systems named after Gorbatova, Russia - "Optimization of the biotechnological process of obtaining compositions based on proteins of cereals and legumes".

Anastasia Loboyko, 4th year student of Volgograd State Technical University - "Stracciella cheese with functional properties".

Vladimir Belik, scientific adviser - Dolgov V.V., Donskoy State Technical University - "Efficiency of calculating integral coefficients of peripheral blood in assessing the safety of a feed additive".

Anna Morgul, researcher hands. - Belik S.N. Rostov State Medical University - "The use of pre- and probiotics for the prevention of DNA damage in allergic diseases."

Tatiana Kazaryan, scientific researcher hands - Morgul E.V. Rostov State Medical University - "Hygienic recommendations for dietary support for patients with autoimmune thyroiditis."

Sergey Ivanov, Doctor of Biological Sciences, MegaMix, Volgograd, Russia, "Scientific and practical substantiation of the use of mineral and plant growth enhancers of a new generation in feeding monogastric animals."

Batrudi Gekhaev, "Innovations in ostrich breeding".

Saule Kurmasheva, applicant for the State Scientific Institution NIIMMP, Volgograd, Russia - "New in the production of broiler chicken meat"

Elena Vorontsova, Ph.D., State Scientific Institution NIIMMP, Volgograd, Russia - "Ecological safety of milk and the efficiency of its production when using new feed additives".

Alexander Chernyak - "Productive and quality indicators of large white pigs, depending on protein nutrition."

Tatyana Voronina, Ph.D., MegaMix - "The effectiveness of the feed additive Innovit® E 60 in the diets of poultry."

Vyacheslav Golovin, Ph.D., Neurometrix LLC, Moscow, Russia - "Prevention of heat stress in poultry farming;"

Alisa Rudkovskaya, MegaMix LLC, Volgograd, Russia - "Innovative developments in egg poultry farming";

Evgeniya Struk, applicant for the State Scientific Institution NIIMMP, Volgograd, Russia - "New directions in the cultivation of breeding poultry;"

Olga Knyazhechenko, junior researcher, State Scientific Institution NIIMMP, Volgograd, Russia - "Quality indicators of rabbit meat when using new feed additives".

Marina Vasilyeva, postgraduate student, State Scientific Institution NIIMMP, Volgograd, Russia - "Quality indicators of goat milk".

Alena Reshetnikova, postgraduate student, State Scientific Institution NIIMMP, Volgograd, Russia - "Features of the Edilbaev breed sheep of the new type" Povolzhsky ";

Natalia Karabalina, postgraduate student, State Scientific Institution NIIMMP, Volgograd, Russia - "Production of meat of broiler chickens using prebiotic feed additives".

16:00 - 17:00 - Awarding of the winners of the Review-Competition

June 18, 2021 - 10.00 (Moscow)

Krasnoyarsk State Agrarian University, Krasnoyarsk, st. Stasova, 44I, room. 209

Join a Zoom meeting

https://us02web.zoom.us/meeting/register/tZYqc-ivqzMiHNFSLWeXLg7pyLYF1W_krw1e%C2%A0

Opening of the face-to-face session

Greetings from the rector of the Krasnoyarsk State Agrarian University

N.I. Pyzhikova, Doctor of Economics, Professor (Krasnoyarsk, Russia)

Speech by the rector of the Tashkent Institute of Irrigation and Agricultural Mechanization Engineers,
U. P. Umurzakov, Doctor of Economics, Professor (Tashkent, Uzbekistan)

Speeches of the participants of the face-to-face session

Moderator - Denis Parshukov, Candidate of Economic Sciences, Associate Professor, Deputy Director for Science of the Institute of Economics and Management of the Agroindustrial Complex, KrasSAU

Quality of life of the rural population of the Krasnoyarsk Territory: assessment, trends and priorities

Zinaida Shaporova

Krasnoyarsk State Agrarian University, Krasnoyarsk, Russia

Varietal responsiveness of wheat to the use of pesticides and fertilizers

V.V. Keler

Krasnoyarsk State Agrarian University, Krasnoyarsk, Russia

Assessment of mtDNA variability and phylogenetic relationships of local horse breeds in Siberia

Lyudmila Khrabrova, professor, doctor of agricultural sciences.

FSBSI "All-Russian Research Institute of Horse Breeding", Ryazan region. Rybnovsky district of the village of Divovo, p / o Institute of Horse Breeding, Russia

ROS generation by animal blood cells under the influence of low doses of ionizing radiation "in vivo" and "in vitro".

Arina Fedotova

Krasnoyarsk State Agrarian University, Krasnoyarsk, Russia

Comparative assessment of chemiluminescence of blood cells of quail and chickens under different physiological conditions

Evgeniya Turitsyna

Krasnoyarsk State Agrarian University, Krasnoyarsk, Russia

Online speeches of the participants of the face-to-face session

Influence of basic tillage on the productivity of leguminous crops

Tatiana Kiseleva

State Agrarian University of the Northern Trans-Urals, Tyumen, Russia

Smartphone-based plant leaf area meter	Alexander Aleinikov	Siberian Federal Scientific Center of Agrobiotechnology of the Russian Academy of Sciences, Novosibirsk region, p. Krasnoobsk settlement, Russia
Ground-based monitoring of the dynamics of the development of fungal diseases of strawberry	Alexander Aleinikov	Siberian Federal Scientific Center of Agrobiotechnology of the Russian Academy of Sciences, Novosibirsk Region, p. Krasnoobsk settlement, Russia
The role of crayfish (<i>Pontastacus Leptodactylus</i> (Esch.)) In maintaining the sustainability of freshwater bodies	Konstantin Tarasov	Moscow State University named after M.V. Lomonosov, Moscow, Russia
Methodology for developing a model of an ecologically plastic variety on the example of spring triticale	Irina Grebennikova	Siberian Federal Scientific Center of Agrobiotechnology of the Russian Academy of Sciences, Novosibirsk Region, p. Krasnoobsk settlement, Russia
Adaptation of wheat varieties under combined stress	Tamara Gurova	Siberian Federal Scientific Center of Agrobiotechnology of the Russian Academy of Sciences, Novosibirsk Region, p. Krasnoobsk settlement, Russia
Features of management of the integration development of the agricultural sector	Alexander Pozdnyakov	Khakass State University named after N. F. Katanova, Abakan, Russia
Modern world production and consumption of cocoa	Nina Gavrilova	Institute for African Studies, RAS, Moscow, Russia
Renovation of the tractor fleet in the agriculture of the region	V.V. Averyanov	Krasnoyarsk State Agrarian University, Krasnoyarsk, Russia
Nonspecific resistance of black-and-white heifers at the age of 12 months against the background of the use of a tissue biostimulator	I. A. Pushkarev	Federal Altai Scientific Center of Agrobiotechnology, Barnaul, Russia

June 19, 2021 - 10.00 (Moscow)

Bukhara Engineering Technological Institute

Bukhara, June 19, 2021 - 09.00 (Bukhara)

Join a Zoom meeting

<https://us02web.zoom.us/j/87659402117?pwd=K3J3cWhXWEx5bXFkZm5wSjBjT0NFZz09>

Conference ID 876 5940 2117

Plenary session

Greetings from the rector of the Bukhara Engineering and Technological Institute prof. Nusratillo Barakaev

Speeches of the participants of the face-to-face session

Obtaining technologically and physiologically functional fatty products for special purposes	Ismail Isabaev	Bukhara Engineering and Technological Institute, Bukhara, Uzbekistan
To the question of organizing the communication system in microorganisms	Bakhodir Mukhammadiev	Bukhara Engineering and Technological Institute, Bukhara, Uzbekistan
Deep chiseling parameters	Narzullo Bebutov	Bukhara Engineering and Technological Institute, Bukhara, Uzbekistan
Fractional composition of waste yellow oil	Hamro Dustov	Bukhara Engineering and Technological Institute, Bukhara, Uzbekistan

Online speeches of the participants of the face-to-face session

Assessment of the functional efficiency of tourist - recreational clusters in the regions of Russia	Ludmila Evgrafova	Moscow
Overview of used aeration systems for biological wastewater treatment	Ivan Pavlov	ISTU named after M.T. Kalashnikov, Izhevsk, Russia
Analytical review of water softening methods and an algorithm for selecting a method for application in the production cycle	Alfiya Gaynanova	ISTU named after M.T. Kalashnikov, Izhevsk, Russia
