

# MODERN DEVELOPMENT PATHES OF AGRICULTURAL

## TRENDS AND INNOVATIONS

*international  
research and practice  
conference*

**PROGRAM  
OF THE  
CONFERENCE**

*Tavria State Agrotechnological University  
23-24 October, Melitopol*

## ORGANIZERS OF CONFERENCE



**Ministry of Education and Science of Ukraine**

**Tavria State Agrotechnological University (Ukraine)**

**Research Institute for Agriculture Mechanization southern  
Ukraine**

**National Science Center «Institute of Agrarian Economy»  
(Ukraine)**

**Kharkiv State University of Food Technology and Trade (Ukraine)**

**«Angel Kanchev» University of Ruse (Bulgaria)**

**Slovak University of Agriculture in Nitra (Slovakia)**

**Warsaw University of Life Sciences SGGW (Poland)**

**Belarusian State Agrarian Technical University (BSATU) (Belarus)**



**SCIENTIFIC COMMITTEE**

<b>KYURCHEV</b> Volodymyr (Ukraine)	D.Sc., Professor, Excellence in Agricultural Education and Science of Ukraine, Excellence in Education of Ukraine, Honored Educator of Ukraine, Rector of TSATU, Corresponding Member of NAASU (Chair)
<b>NADYKTO</b> Volodymyr (Ukraine)	Vice-Rector for Science and International Activity, D.Sc., Professor, Corresponding Member of NAASU (Co-chair)
<b>DIORDIIEV</b> Volodymyr (Ukraine)	D.Sc., Professor, Head of the power engineering and automation department, Tavria State Agrotechnological University
<b>DIDUR</b> Volodymyr (Ukraine)	D.Sc., Professor, Academic of the International Academy of Agrarian Education, Head of the hydraulics and heating engineers department, Tavria State Agrotechnological University
<b>VOLOKH</b> Anatoliy (Ukraine)	Doctor of Biological Science, Professor of the geocology and land management department, Tavria State Agrotechnological University
<b>ADAMCHUK</b> Valeriy (Ukraine)	Director of National Scientific Center “Institute of Mechanization and Electrification of Agriculture”
<b>BULGAKOV</b> Volodymyr (Ukraine)	Professor of mechanics, resistance of materials and construction department, National University of Life and Environmental Sciences of Ukraine
<b>SHABALA</b> Sergey (Australia)	professor in plant physiology, head of the stress physiology research group at the University of Tasmania
<b>KORENKO</b> Maroš (Slovakia)	doctor of technical sciences, prof., Slovak University of Agriculture (Nitra, Slovakia)
<b>KROČKO</b> Vladimir (Slovakia)	doctor of technical sciences, prof., Slovak University of Agriculture (Nitra, Slovakia)
<b>IVANOV</b> Semjons (Latvia)	doctor of technical sciences, prof., Latvia University of Agriculture (Elgava, Latvia)
<b>BORAVSKY</b> Peter (Poland)	PhD habil., Lecturer of the agrotechnology, agricultural production management and agrobusiness department of the University of Warmia and Mazury in Olsztyn (Poland)
<b>NOWAK</b> Janysz (Poland)	doctor of technical sciences, prof., University of Life Sciences (Lublin, Poland)
<b>ARAK</b> Marqus (Estonia)	doctor of technical sciences, prof., Estonian University of Life Sciences (Estonia)
<b>OLT</b> Jüri (Estonia)	doctor of technical sciences, prof., Estonian University of Life Sciences (Estonia)
<b>NUGIS</b> Edvin (Estonia)	senior scientist at Estonian crop research institute (Estonia)
<b>BELOEV</b> Hristo (Bulgaria)	doctor of technical sciences, prof., “Angel Kanchev” University of Rousse (Bulgaria)
<b>NUKESHEV</b> Sayakhat (Kazakhstan)	Doctor of Technical Sciences, Professor of the Academy of Agricultural Sciences, Corresponding Member of the National Academy of Sciences of the Republic of Kazakhstan, Dean of Technical Faculty

**ORGANIZING COMMITTEE**

<b>NADYKTO</b> Volodymyr	Vice-Rector for Science and International Activity, D.Sc., Professor, Corresponding Member of NAASU (Co-chair)
<b>PRUS</b> Yurii	PhD in Economic Sc., Associate Professor, chief of the research department, Tavria State Agrotechnological University
<b>IEFIMENKO</b> Liudmyla	PhD in Public Administration, Head of the Office of International Relations, Tavria State Agrotechnological University
<b>DIORDIIEV</b> Volodymyr	D.Sc., Professor, Head of the power engineering and automation department, Tavria State Agrotechnological University
<b>KASHKAROV</b> Anton	Ph.D in Engineering Science., Associate Professor of the power engineering and automation department, Tavria State Agrotechnological University
<b>KARAIIEV</b> Olexandr	D.Sc., Director of the Institute of irrigated horticulture, Tavria State Agrotechnological University
<b>PRISS</b> Olesia	D.Sc., Director of Research Institute of Agrotechnologies and Ecology, Tavria State Agrotechnological University
<b>BONDARENKO</b> Larysa	PhD in Engineering Sc., Associate Professor of the technical mechanics department

***Tavria State Agrotechnological University***

**SCIENTIFIC RESEARCH INSTITUTES**

*Research Institute of Agricultural Mechanization of Southern Ukraine*  
*Research Institute of Agrotechnologies and Ecology*  
*Research Institute of Strategy of socio-economic development of agro-industrial production*  
*in the South of Ukraine*  
*Research Institute of Irrigated Gardening*

**CONFERENCE PROCEDURE:**

**23 October 2018**

8<sup>30</sup> - 9<sup>45</sup> – Registration  
10<sup>00</sup> - 10<sup>30</sup> – Opening  
10<sup>30</sup> - 13<sup>00</sup> – Plenary meeting  
13<sup>00</sup> - 14<sup>00</sup> – Coffee break, lunch  
14<sup>00</sup> - 17<sup>00</sup> – Section work

**24 October 2018**

10<sup>00</sup> - 12<sup>00</sup> – Section work  
12<sup>00</sup> - 13<sup>00</sup> – Summing-up  
Departure of the participants

**SECTIONS**

<b>SECTION 1</b>	<b><i>Engineering and mechanical engineering of agriculture</i></b>	<b><i>hall 4.308</i></b>
<b>SECTION 2</b>	<b><i>Electrical engineering and energy technologies of agriculture.</i></b>	<b><i>hall 4.308</i></b>
<b>SECTION 3</b>	<b><i>Agriculture Economics: Marketing, Finance, Management</i></b>	<b><i>hall 2.303</i></b>
<b>SECTION 4</b>	<b><i>Technologies of production and processing of agricultural products.</i></b>	<b><i>hall 5.103</i></b>

**OPENING**  
**(hall 5.103)**

Greeting

<b>Kyurchev</b> Volodymyr	D.Sc., Professor, Excellence in Agricultural Education and Science of Ukraine, Excellence in Education of Ukraine, Honored Educator of Ukraine, Rector of TSATU, Corresponding Member of NAASU (Chair)
<b>Nadykto</b> Volodimir	Vice-Rector for Science, D.Sc., Professor, Corresponding Member of NAASU (Co-chair)

**PLENARY MEETING**  
**(hall 5.103)**

*Moderator: Volodymyr Nadykto*

**TYPE OF TRACTORS AS A PREREQUISITE FOR THE CREATION OF AGRICULTURAL MACHINE SYSTEM**

*Volodimir Nadykto, Vice-Rector for Science, D.Sc., Professor, Corresponding Member of NAASU (Co-chair)*

**THE PROMISING TRENDS OF PRODUCTION AND PROCESSING OF AGRICULTURAL PRODUCTS**

*Olesia Priss, D.Sc., Professor, Head of the of Food Technologies and Hotel, Restaurant and Catering Department, Tavria State Agrotechnological University*

**METHODS OF STATISTIC CONTROL FOR STABILITY OF TECHNOLOGICAL PROCESS IN FRUIT CROPS GROWING AND FINAL PRODUCTION QUALITY**

*Oleksandr Karaiev, D.Sc., Senior Scientist, Head of the Agricultural Machinery Department, Tavria State Agrotechnological University*

**FORMATION AND DEVELOPMENT OF THE LAND MARKET IN UKRAINE**

*Yurii Prus, Ph.D. in Economic Sc., Associate Professor, chief of a research department, Tavria State Agrotechnological University*

## SECTION I

### *Engineering and mechanical engineering of agriculture.*

#### **Section Head:**

*Volodymyr Nadykto, Doctor of Technical Sciences, Professor*

#### **SEED MATERIAL SIZE INFLUENCE ON ITS UNIFORM SOWING UNIT DELIVERY**

*Volodymyr Kiurchev, Yevgeny Serbii, Sergii Shevchenko*

#### **METHODOLOGICAL ASPECTS OF DETERMINING PARAMETERS OF A SCALPER-TYPE AIR-SIEVED SEPARATOR AIRFLOW.**

*Evgeniy Mikhailov, Marina Postnikova, Natalia Zadosnaia, and Oleg Afanasyev*

#### **INVESTIGATION OF THE TRICYCLE TRACTOR INCLINE INFLUENCE ON ITS STABILITY UNDER THE CONDITIONS OF WORK AT THE OF SLOPE FIELDS**

*Viktor Sheicenko, Gedal Hailis, Igor Dudnikov, Tetiana Chorna*

#### **SCIENTIFIC PRECONDITIONS FOR IMPROVING THE SUSTAINABILITY OF THE MOVEMENT OF THE REAPER UNIT**

*Pascuzzi Simone, doctor of technical sciences, prof., University of Bari Aldo Moro, Italy*

#### **CALCULATED MATHEMATICAL MODEL OF MOUNTED ASYMETRIC MACHINE TRACTOR UNIT**

*Jüri Olt, doctor of technical sciences, prof., Estonian University of Life Sciences*

#### **RESEARCH OF TECHNICAL-OPERATIONAL CHARACTERISTICS OF THE ARABLE UNIT, WORKING ON “PUSH-PULL” SYSTEM**

*Janysz Nowak, doctor of technical sciences, prof., University of Life Sciences in Lublin, Poland,*

#### **INVESTIGATION AND DEVELOPMENT OF INNOVATIVE TECHNOLOGY AND TECHNICAL MEANS FOR INDEMNIFICATION, CLEANING AND PROCESSING OF INDUSTRIAL HEMP**

*Ivanovs Semens, doctor of technical sciences, prof., Latvia University of Agriculture, Elgava*

#### **THEORY OF MOVEMENT OF POTATO TUBERS ON THE SPIRAL SEPARATOR**

*Margus Arak, Prof. Doc. Ing. PhD., Estonian University of Life Sciences*

#### **THEORY OF THE INTERACTION OF FLAT SENSING ORGAN WITH THE HEAD OF THE SUGAR BEET ROOT**

*Ladislav Nozdrovicky, Prof. Ing. PhD, Slovak University of Agriculture in Nitra, Slovak Republic*

#### **DEVELOPMENT OF TECHNOLOGY FOR THE HEMP STALKS PREPARATION**

*Viktor Sheicenko, Igor Marynchenko, Vitaliy Shevchuk, and Natalia Zadosnaia*

**METHODICAL ASPECTS OF THE CHOICE OF TECHNOLOGY FOR GROWING FIELD CROPS**

*Tetiana Chorna, Vitaliy Movchan, Olena Isakova, Viktor Lupunos*

**REFRACTORY MATERIALS MANUFACTURING BASED ON SEWAGE SLUDGE**

*Ludmyla Chernysheva, Sergii Kiurchev, Oleh Penov*

**AGROBIOLOGICAL AS WELL AS MECHANICAL AND TECHNOLOGICAL FRAMEWORK OF DEVELOPMENT OF THE HARVESTING TECHNOLOGY WITH THE METHOD OF GRAIN CROPS COMBING IN STANDING POSITION**

*Aleksandr Lezhenkin, Ivan Lezhenkin, Aleksandr Vershkov, Sergey Kolomiyets*

**SIMULATION OF CEREAL CROPS HARVESTING USING THE METHOD OF GRAIN CROPS COMBING IN STANDING POSITION IN CONDITIONS OF FARM-ING ENTERPRISES**

*Aleksandr Lezhenkin, Ivan Lezhenkin, Aleksandr Vershkov, Sergey Kolomiyets*

**INCREASING THE EFFICIENCY OF THE TECHNOLOGICAL PROCESS OF PROCESSING CASTOR-OIL SEEDS INTO CASTOR OIL.**

*Volodymyr Didur, Volodymyr Kiurchev, Andriy Chebanov, Anatoliy Aseev*

**INCREASE IN DURABILITY OF MOTOR CRANKSHAFT PIN SURFACE BY VIBROROLLING.**

*Oleksii Novyk, Valeriia Panina, Halyna Dashyvets, Andriy Bondar*

**THE FORMATION OF ORTHOGONAL BALANCED EXPERIMENT DESIGNS BASED ON SPECIAL BLOCK MATRIX OPERATIONS ON THE EXAMPLE OF THE MATHEMATICAL MODELING OF THE PNEUMATIC GRAVITY SEED SEPARATOR.**

*Vera Malkina, Sergey Kyurchev, Viacheslav Osadchyi, Oksana Strokan*

**SOFTWARE DEVELOPMENT FOR THE SECURITY OF TCP CONNECTION.**

*Dmytro Lubko, Serhii. Sharov, Oksana Strokan*

**GENERALIZATION OF FACTORS OF MILK HOMOGENIZATION.**

*Kyrylo Samoichuk, Nadiia Zahorko, Vadym Oleksiienko, Serhii Petrychenko*

**ANALYSIS OF MAIN CHARACTERISTICS OF OF INFRARED DRYING IN THE MOVING LAYER OF GRAIN PRODUCE**

*Igor Palamarchuk, Sergey Kiurchev, Ludmyla Kiurcheva, Valentyna Verkholtseva*

**RESEARCH OF THE CEREAL MATERIALS MICRONIZER FOR FODDER COMPONENTS PREPARATION IN ANIMAL HUSBANDRY.**

*Alexander Skliar, Boris Boltyanskyi, Natalia Boltyanska, Denis Demyanenko*

**THEORETICAL ASPECTS OF PLANT MATERIAL SEALING IN A WEDGE-SHAPED CANAL.**

*Dmytro Milko, Viacheslav Brarishko, Volodymyr Kuzmenko, Oleksandr Kholodiuk*



**MODELING OF FUNCTIONAL SURFACES IN CAD-SYSTEM SOLIDWORKS  
USING SPECIALIZED SOFTWARE**

*Yuliia Kholodniak, Yevhen Havrylenko, Oleksandr Matsulevych, and Viktor Shcherbyna*

**SETTING GROUND DIMENSION-TYPE SERIES-TILLAGE FERTILIZING, SOW-  
ING COMPLEXES FOR GROWING GRAIN CROPS**

*Vitaliy Serbii, Galuna Antonova, Olena Mikhaylenko, Volodymyr Djuzhaiev*

**JUSTIFICATION OF THE PARAMETERS A REAR-MOUNTED LINKAGE OF  
WIDE SPAN TRACTOR (VEHICLE).**

*Volodymyr Kuvachov, Vasil Mitkov, Vyacheslav Mitin, Abdulmelik Ayubov*

**MECHANISM OF TECHNICAL SERVICE INVESTMENT IN AGRICULTURE.**

*Galina Gritsaenko, Igor Gritsaenko, Andrei Bondar, Dmitriy Zhuravel*

**VACUUM COOLING TECHNOLOGY FOR PRE-COOLING OF CHERRY FRUITS**

*Olexandr Lomeyko, Lilia Yefimenko, Vera Tarasenko, Olena Dereza*

**THE COEFFICIENT DETERMINATION OF A DAMPER WASHER  
HYDRAULIC RESISTANCE FOR REDUCING A TECHNICAL MODULE OSCIL-  
LATION AMPLITUDE**

*Volodymyr Bulgakov, Oleksandr Parakhin, Basil Mitkov, Tetiana Chorna*

**LOCATION OF SOCIAL CAPITAL IN THE LABOR PROTECTION OF THE EN-  
TERPRISE**

*Nicholas Grytsaenko, Yuri Rogach, Mykhailo Zorya*

**GRAINS DYNAMIC STRENGTH DETERMINATION AND THE OPTIMAL COM-  
BINATION OF COMPONENTS OF A DIAMONDFEROUS LAYER OF GRIND-  
ING WHEELS**

*Olha Sushko, Serhii Kiurchev, Oleksandr Kolodii, Roman Bakardzhiiev*

**METHOD OF DETERMINING THE KINEMATIC DISCREPANCY MODULAR  
POWER UNIT (MPU)**

*Volodymyr Nadikto, Volodymyr Kiurchev, Hristo Belayev*

**GEOMETRICAL PARAMETERS FOR DISTRIBUTION SYSTEMS OF HYDRAU-  
LIC MACHINES**

*Angela Voloshina, Anatolii Panchenko, Irina Milaeva, Andrii Zasiadko*

**OPERATING CONDITIONS INFLUENCE ON THE CHANGE OF FUNCTIONAL  
CHARACTERISTICS FOR MECHATRONIC SYSTEMS WITH ORBITAL HY-  
DRAULIC MOTORS**

*Anatolii Panchenko, Angela Voloshina, Igor Panchenko, Petro Luzan*

**STABILITY DEFINING OF TECHNOLOGICAL PROCESS OF FRUIT CROPS  
PLANTING STOCKS GROWING**

*Olexandr Karaiev, Lyudmila Tolstolik, Dmytro Filipov and Yigal Master, Marketing Man-  
ager at NaanDanJain Ltd*

**SOWING UNITS FOR DRILLING VEGETABLE CROPS**

*Volodymyr Tarasenko, Larysa Bondarenko, Nina Scherbakova, Natalia Horbova*

**PLOUGH CRAMPON PARAMETERS SUBSTANTIATION FOR EXCAVATING  
FRUIT CROPS SAPPLINGS FROM SEEDBED**

*Olexandr Matkovsky, Olexandr Karaiev, Sergey Sankov, Denis Kovalchuk*

**CONTROLLED SPRAYING RESEARCHING OF ORCHARD SPRAYER CHEMI-  
CAL SOLUTION**

*Nikolay Struchaiev, Larysa Bondarenko, Olexandr Vershkov, Andrei Chaplinskiy*

**PECULIARITIES OF OPERATING CONTROL BY FRUIT PLANTATIONS MUL-  
TI-FUNCTION MICRO-IRRIGATION SYSTEM**

*Sergey Syshko, Valentina Odyntsova, Larysa Bondarenko, Nina Scherbakova*

**METHOD FOR DETERMINING LINEAR DENSITY OF CROP PLANT EL-  
EMENTS**

*Ivan Chizhykov, Vitaliy Koshul'ko, Tatyana Karaieva*

**OPTICAL AND MECHANICAL SYSTEM FOR RESEARCHING TRANSPARENT  
TECHNICAL SUBSTANCES AND PROCESSING OF RESULTS MEASURE-  
MENTS**

*Sergey Movchan, Olena Dereza, Sergey Mazilin, Sergey Dereza*

**EXAMINING THE CREATIVE POTENTIAL OF ENGINEERING STUDENTS**

*Natalia Sosnyts'ka, Olena Titova, Svitlana Symomenko, Olena Kravets*

## SECTION 2

### *Electrical engineering and energy technologies of agriculture*

#### **Section Head:**

*Volodymyr Diordiiev, Doctor of Technical Sciences, Professor*

#### **HYBRID POWER SYSTEM STOCHASTIC OPTIMIZATION**

*Olga Lysenko, Mykola Kuznetsov, Andriy Chabanov, Svitlana Adamova*

#### **PROBLEMS OF USING AN AEROSOL CHARGED WITH ELECTRICITY TO COOL GREENHOUSES**

*Anton Kashkarov, Volodymyr Diordiiev, Andrii Sabo, Olexandr Diordiiev*

#### **EXPERIMENTAL INVESTIGATIONS OF FUNCTIONAL PROPERTIES OF BIO-FUEL PROCESSED IN THE ELECTROTECHNOLOGICAL COMPLEX**

*Ruslan Kushlyk, Igor Nazarenko, Roman Kushlyk*

#### **DEVELOPMENT OF A MOTOR SPEED OBSERVER FOR A SOIL-CULTIVATING MOTOBLOCK**

*Alexander Kovalyov, Sergey Kvitka, Alexander Solomakha, Vyacheslav Gerasymenko*

#### **MATHEMATICAL MODEL CHANGING THE VALUE OF THE PROCESS OF LEAKAGE CURRENT IN 0.38 KV NETWORKS**

*Vyacheslav Gerasymenko, Vladimir Kozyrsky, Natalya Mayborodina, Alexander Kovalyov*

#### **ENERGY SAVING IN THE TECHNOLOGICAL PROCESS OF THE GRAIN GRINDING**

*Marina Postnikova, Evgeniy Mikhailov, Dina Nesterchuk, Olga Rechina*

#### **EXPERIMENTAL STUDY OF POSITIVE INFLUENCE ON GROWTH OF SEEDS OF ELECTRIC FIELD A HIGH VOLTAGE**

*Yuri Stepin, Vadim Gulevsky, Julia Postol, Natalia Perova*

#### **DETERMINATION OF THE DURATION OF SPHERICAL SHAPE BERRIES FREEZING UNDER THE CONDITIONS STATIONARY HEAT FLOW**

*Nikolai Struchaev, Yulia Postol, Yria Stepin, Ivan Borokhov*

#### **ENERGY-SAVING CONTROL OF ASYNCHRONOUS ELECTRIC MOTORS OF THE DRIVE OF OPERATIONAL MACHINES**

*Alexander Vovk, Sergey Kvitka, Sergey Galko, Alexander Strebkov*

**SECTION 3**

*Agriculture Economics: Marketing, Finance, Management*

**Section Head:**

*Tetiana Yavors'ka T.I., Dr. Sc. (Econ.), Professor*

**ACCOUNTING AND ANALYTICAL METHODS FOR IDENTIFYING RISKS OF AGRICULTURAL ENTERPRISES' SUSTAINABLE DEVELOPMENT**

*Valeriy Zhuk, Oleg Sokil, Nataliia Holub, Olha Levchenko*

**ACCOUNTING ESSENCE OF AMORTIZATION POLICY**

*Darya Trachova, Liudmyla Sakhno, Olena Demchuk*

**COGNITIVE MODELING IN THE REGIONAL STRATEGIC MANAGEMENT**

*Olga Nazarova, Olena Shevchuk, Svitlana Plotnichenko, Nonna Surzhenko*

**MANAGEMENT OF ENTERPRISE COMPETITIVENESS: THEORETICAL AND METHODOLOGICAL ASPECT**

*Svitlana Nesterenko, Oleh Kravets, Liudmyla Redko, Svitlana Rozumenko*

**MANAGEMENT OF THE POPULATION'S LIFE QUALITY IN THE SECTORS OF SOCIAL SPHERE**

*Lyudmyla Synyayeva, Nataliya Bocharova, Iryna Ahieieva, Anhelina Yarchuk*

**METHODOLOGICAL ASPECTS OF FORMING MATHEMATIC MODELS OF MANAGEMENT OF SOCIAL-ECONOMIC SYSTEMS DEVELOPMENT**

*Oleksii Hudzynskiy, Svitlana Sudomyr, Yuliia Hudzynska, Mariia Sudomyr*

**MODELING OF INNOVATIVE ACTIVITY OF PEASANT FARMS**

*Sergey Kalchenko, Tetyana Popova, Sergey Bilyayev, Diana Gribova*

**PROSPECTS OF UKRAINE IN THE GLOBAL DESSERT MARKET**

*Tetiana Krasnoded, Tetiana Popova, Tetiana Bakina, Olena Vasylenko*

**ECONOMIC SECURITY OF UKRAINE IN THE SYSTEM OF ECONOMIC GROWTH FACTORS**

*Sergii Karman, Nataliia Pochernina, Tetiana Prystupa*

**METHODICAL APPROACHES TO IMPLEMENTATION OF FINANCIAL BANK STABILITY**

*Nataliia Radchenko, Natalia Rubtsova, Iryna Chkan and Inna Yakysheva*

**DEVELOPMENT AND INCIPIENCE DECENTRALIZATION OF AUTHORITY IN UKRAINE AND FORMATION OF ITS IMPACT ON LOCAL BUDGETS FINANCIAL CAPACITY**

*Svitlana Osypenko, Inna Kohut, Olena Iatsukh, El'vira Abliazova*

**THE ROLE OF SOCIAL CAPITAL IN DEVELOPMENT OF AGRICULTURAL ENTREPRENEURSHIP**

*Mykola Hrytsaienko, Galina Hrytsaienko, Larysa Andrieieva, Larysa Boltyanska*

**PROBLEMS AND PROSPECTS FOR FAMILY FARM DEVELOPMENT IN UKRAINE**

*Tetiana Yavors'ka, Ganna Zavadskykh, Oksana Lysak, Yurii Prus and Peter Boravsky, University of Warmia and Mazury in Olsztyn (Poland)*

**ANALYSIS OF USE OF PERSONNEL IN AGRICULTURAL ENTERPRISES**

*Yurii Prus, Tetiana Yavors'ka, Oleksij Petryga, Olena Voronianska*

**PROFESSIONAL SERVICES IN AGRICULTURE**

*Nadiia Serskykh*

**THE TECHNOLOGICAL AND ENVIRONMENTAL EFFECT ON PRODUCTION OF VEGETABLE PRODUCTS FOR CHILDREN**

*Darya Legeza, Yulia Vlasiuk, Anastasia Konovalenko and Tatyana Arestenko*

**THE ABILITY OF THE EARTH TO ENVIRONMENTALLY FRIENDLY PRODUCTION**

*Roman Oleksenko, Iryna Kolokolchykova, Olena Sysonenko*

**INTERNATIONAL RANKING AND CLUSTERING SYSTEMS IN COMPLEX EVALUATION OF DEMOGRAPHIC AND MIGRATION PROCESSES**

*Dmytro Vasylykivskiy, Raisa Kvasnytska, Svitlana Nesterenko, Igor Lapshyn*

#### SECTION 4

##### *Technologies of production and processing of agricultural products*

###### **Section Head:**

*Olesia Priss, Doctor of Technical Sciences, Professor*

###### **THE EFFECTS OF FLOOR MANAGEMENT SYSTEMS ON SOIL CONDITIONS IN AN ORGANIC SWEET CHERRY ORCHARD IN A SOUTHERN STEPPE OF UKRAINE**

*Tatyana Gerasko, Lyudmila Velcheva, Lyudmila Todorova and Lyubov Pokoptseva*

###### **INFLUENCE OF GROWTH REGULATOR APPLICATION METHOD ON THE ACTIVITY OF ANTIOXIDANT SYSTEM OF WINTER WHEAT (TRITICUM AESTIVUM L.) PLANTS**

*Zoia Bilousova, Yulia Klipakova, Victoria Keneva, Sergei Kuleshov*

###### **MULTICRITERIA THE INFLUENCE OF AKM GROWTH REGULATOR ON PHOTOSYNTHETIC ACTIVITY OF OILSEED FLAX PLANTS IN THE CONDITIONS OF INSUFFICIENT HUMIDIFICATION OF THE SOUTHERN STEPPE OF UKRAINE**

*Oksana Yeremenko, Svitlana Kalenska, Lyubov Pokoptseva, Lyudmila Todorova*

###### **NITROGEN IN SOIL PROFILE AND FRUITS IN THE INTENSIVE APPLE CULTIVATION TECHNOLOGY**

*Tetiana Maliuk, Natalia Pcholkina, Lilia Kozlova, Oksana Yeremenko*

###### **INVESTIGATION OF THE GRINDING MODE OF THE ENRICHED WHEAT PRODUCTS IN THE ROLLING MILL 1- GRINDING SYSTEM OF THE MILLING MILL OF WHEAT GRINDING**

*Olena Yeremeyeva, Gennadii Tkachenko, Yevgen Kharchenko and Olena Hryhorenko*

###### **EFFECT OF PREPARATIONS METHYURE (6-METHYL-2-MERCAPTO-4-HYDROXYPYRIMIDINEON CORN (ZEA MAYS L.) BIOLOGICAL PRODUCTIVITY UNDER SALINE SOIL CONDITIONS**

*Maksym Kolesnikov, Yulia Pashenko, Marina Kapinos, Galina Ninova*

###### **EFFECT OF SEED SOWING PERIOD ON ANTIOXIDANT DEFENSE IN BASIL (OCIMUM BASILICUM L.) UNDER GREENHOUSE CONDITIONS**

*Olesia Priss, Iryna Korotka, Victoria Koliadenco and Tatiana Kolisnychenko*

###### **TECHNOLOGICAL PROPERTIES OF WINTER WHEAT GRAIN DEPENDING ON THE ECOLOGICAL AND GEOGRAPHICAL ORIGIN OF A VARIETY AND WEATHER CONDITIONS**

*Grygoriy Hospodarenko, Olena Cherny, Ihor Prokopchuk and Olena Hryhorenko*

###### **TECHNOLOGICAL INDICES OF SPRING WHEAT GRAIN DEPENDING ON THE NITROGEN SUPPLY**

*Larysa Novak, Liubych Vitalii, Olena Yeremeyeva, Olena Danchenko*

**USE OF ALTERNATIVE TYPES OF FUEL FOR GRAIN DRYING**

*Nina Osokina, Hennadii Tkachenko, Yana Yevchuk, Marina Serdyuk*

**PECULIARITIES OF THE INFLUENCE OF BIOFLAVONOIDS OF OAT ON THE STATE OF PROOXIDANT-ANTIOXIDANT BALANCE IN TISSUES OF GEESE**

*Liubov Zdorovitseva, Olena Sukharenko, Mykola Andrushchenko, Mykola Danchenko*

**MODIFICATION OF MODELING METHODS TOXIC HEPATODISTROPHY IN RATS**

*Viktoriya Gryshchenko, Olena Danchenko, Viktoriya Musiychuk*

**EFFECTS OF DIFFERENT DIETARY SELENIUM SOURCES ON GROWTH PERFORMANCE, FEED UTILIZATION, SERUM BIOCHEMICAL PROFILE OF QUAILS**

*Volodimir Bityutsky, Svitlana Tsekhmistrenko, Oksana Tsekhmistrenko, Olexander Melnychenko, Viktor Kharchyshyn, Olena Sukharenko*

**DETERMINING THE RISKS OF THE PRODUCTION ENVIROMENT OF AN AGRICULTURAL ENTERPRISE**

*Yurii Rohach, Oleh Yatsukh, Mykhailo Zoria*

**MULTICRITERIA OPTIMIZATION OF QUALITY INDICATORS OF SWEET CHERRY FRUITS OF UKRAINIAN SELECTION DURING FREEZING AND STORAGE**

*Iryna Ivanova, Iryna Kryvonos, Liudmila Shleina and Galina Taranenko*

**SCREENING OF AGRICULTURAL RAW MATERIALS AND LONG-TERM STORAGE PRODUCTS TO IDENTIFY BACILLARY CONTAMINANTS**

*Olena Danylova, Marina Serdyuk, Liudmyla Pylypenko, Victor Pelykh, Inna Lopotan, Antonina Yegorova*

**INNOVATIVE TECHNOLOGY OF THE UNLIMITED NUCLEUS OF THE SUNFLOWER SEEDS AFTER VEGETABLE OIL PRESSING FOR THE BREAD QUALITY INCREASING**

*Viktoria Evlash, Lidiya Tovma, Iryna Tsykhanovska, Nonna Gaprindashvili and Sonia Gutt (Amariei, Ștefan cel Mare University of Suceava, Romania)*

**COMPREHENSIVE ASSESSMENT OF THE WHITE ROOTS AROMA**

*Irina Belenkaya, Iryna Kalugina, Yana Golinskaya and Lyudmila Kiurcheva*

**SWEET ICES WITH HIGH NUTRITIONAL VALUE**

*Juliya Kozonova, Victoria Stepanova, Alla Salavelis and Alina Kulyk*

**DEVELOPMENT OF EMULSION SAUCE TECHNOLOGY FOR PREVENTIVE NUTRITION**

*Liubov Telezhenko, Gennadiy Diduch, Svitlana Kolesnichenko and Valentina Zhukova*

**DEVELOPMENT OF FORMULATION AND QUALITY ASSESSMENT OF FAST-COOKING GRAIN COMPOSITION FOR PREGNANT WOMEN**

*Liubov Telezhenko, Nadya Dzyuba, Maryana Kashkano and Oksana Maksymets*

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**FOR NOTES**