

Ministry of Science and Higher Education of the Russian Federation  
Kalashnikov Izhevsk State Technical University

# EQ 2019 PROGRAM

**VIII International Conference  
“Technical Universities: Integration with European  
and World Education Systems”**

**April 23–24, 2019, Izhevsk, Russia**

**100<sup>th</sup> jubilee of M. T. Kalashnikov**



## INTERNATIONAL PROGRAMME COMMITTEE

### Co-chairmen

*V. P. Grakhov*, Rector of Kalashnikov Izhevsk State Technical University

*Jozef Habánik*, Rector of Alexander Dubček University of Trenčín, Slovak Republic

*Jozef Jandačka*, Rector of University of Žilina, Slovak Republic

*S. V. Kharitonchik*, Rector of Byelorussian National Technical University, Republic of Belarus

*Petr Štěpánek*, Rector of Brno University of Technology, Czech Republic

### Committee members

*Pavel Božek*, Professor of Slovak University of Technology in Bratislava, Slovak Republic, Doctor Honoris Causa of Kalashnikov ISTU

*Miroslav Doupovec*, Vice-Rector for Studies of Brno University of Technology, Czech Republic, Doctor Honoris Causa of Kalashnikov ISTU

*Sherif Fakhry*, President of Egyptian-Russian University, Egypt

*Anthimos Georgiadis*, Professor of Leuphana University Lüneburg, Germany, Doctor Honoris Causa of Kalashnikov ISTU

*Ekbert Hering*, Emeritus Rector of Aalen University, Germany, Doctor Honoris Causa of Kalashnikov ISTU

*Rosemarie Karger*, President of Ostfalia University of Applied Sciences, Germany, Doctor Honoris Causa of Kalashnikov ISTU

*A. L. Kuznetsov*, Vice-Rector for Research and Innovations of Kalashnikov ISTU

*Oliver Moravčík*, Vice-Rector for Strategic Projects and Development of Slovak University of Technology in Bratislava, Slovak Republic, Doctor Honoris Causa of Kalashnikov ISTU

## ORGANIZING COMMITTEE

### Chairman

*A. V. Gubert*, Senior Vice-Rector

### Committee members

*A. V. Ryabchikov*, Director of Institute of International Study Programs, Deputy Chairman

*A. L. Kuznetsov*, Vice-Rector for Research and Innovations

*A. E. Popovich*, Vice-Rector for Security and Regime

*Yu. G. Sitnikov*, Vice-Rector for Material and Technical Development

*A. A. Ushakov*, Vice-Rector for Social Development and Extracurricular Work

*O. I. Varfolomeeva*, Vice-Rector for Studies

*A. I. Pomytkin*, Rector's Assistant

*A. V. Abilov*, Dean of Faculty of Instrumentation Engineering

*I. O. Arkhipov*, Director of Institute of Informatics and Computer Engineering

*Yu. B. Bryzgalov*, Dean of Faculty of Mechanical Engineering

*R. A. Galiakhmetov*, Director of Institute of Digital Economy

*Yu. O. Mikhailov*, Director of Institute of Modern Technologies in Mechanical and Automotive Engineering and Metallurgy

*G. N. Pervushin*, Director of V. A. Shumilov Institute of Construction and Architecture

*N. S. Sivtsev*, Director of Institute of Professional Life-Long Learning

*V. V. Sobolev*, Dean of Faculty of Mathematics and Natural Sciences

*N. L. Taranukha*, Director of Institute of Additional Professional Education

*M. F. Fefilov*, Head of Department of Extracurricular Work with Students

*O. Yu. Kade*, Director of Publishing House

*M. V. Leonov*, Head of Department of Economics and Finance

*D. V. Melnichenko*, Head of PR Department

*O. V. Mischenkova*, Head of Division of Training Personnel of Highest Qualification

*R. O. Sultanov*, Head of Informatization Department

# CONFERENCE EVENTS

## 22 April (Monday)

### Arrival day

Arrival and accommodation of the conference participants

ISTU campus  
Hotel “Park Inn”

## 23 April (Tuesday)

8 <sup>00</sup> –9 <sup>00</sup>	Breakfast	Cafe “Shpargalka” Hotel “Park Inn”
9 <sup>00</sup>	Departure of the conference participants from hotel “Park Inn” to Palace “Integral” of Kalashnikov ISTU	
9 <sup>00</sup> –10 <sup>00</sup>	Registration of the conference participants. Visiting the platforms demonstrating competencies of the future	Palace “Integral”
10 <sup>00</sup> –11 <sup>30</sup>	Plenary session	Palace “Integral”
12 <sup>00</sup>	Photo session of the conference participants	Square in front of Palace “Integral”
12 <sup>20</sup> –13 <sup>10</sup>	Lunch	Cafe “Shpargalka”
13 <sup>10</sup>	Departure of the conference participants and accompanying persons to the House of Peoples’ Friendship	Square in front of Palace “Integral”
13 <sup>40</sup> –14 <sup>30</sup>	Tour of the House of Peoples’ Friendship	House of Peoples’ Friendship
14 <sup>20</sup>	Departure of the members of Kalashnikov ISTU Senate	HPF, 3 <sup>rd</sup> floor
14 <sup>30</sup> –15 <sup>00</sup>	Presentation of National Cultural Unions	
14 <sup>50</sup> –15 <sup>00</sup>	Arrival of the members of Kalashnikov ISTU Senate	
15 <sup>00</sup> –16 <sup>30</sup>	Solemn ceremony of Kalashnikov ISTU Senate: - Presentation video of Kalashnikov ISTU - Presentation “Kalashnikov ISTU – center of education and social adaptation of international students in the Udmurt Republic”, Senior Vice-Rector A. V. Gubert - Solemn ceremony of awarding diplomas and gowns of Doctor Honoris Causa of Kalashnikov ISTU to Oleg Gusev (Republic of Belarus), Rostislav Drochytko (Czech Republic) and Peter Lipták (Slovak Republic) - Photo session	Civil Registry hall, 3 <sup>rd</sup> floor
16 <sup>40</sup> –17 <sup>20</sup>	Concert program	Multifunctional hall of HPF, 3 <sup>rd</sup> floor
17 <sup>20</sup>	Photo session of the participants of solemn ceremony of Kalashnikov ISTU Senate. Departure of the participants	Square in front of House of Peoples’ Friendship
18 <sup>00</sup> –21 <sup>00</sup>	Gala dinner dedicated to the opening of VIII International Conference “Technical Universities: Integration with European and World Education Systems”	Cafe “Shpargalka”
21 <sup>00</sup>	Departure to hotel “Park Inn”	

## 24 April (Wednesday)

8 <sup>00</sup> –9 <sup>00</sup>	Breakfast	Cafe “Shpargalka”
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<b>9<sup>30</sup></b>	Departure of the conference participants from hotel “Park Inn” to Kalashnikov ISTU	Hotel “Park Inn”
<b>10<sup>00</sup>–11<sup>30</sup></b>	Reception of foreign and Russian delegations by Prof. Valery Grakhov, Rector of Kalashnikov ISTU. Signing of cooperation agreements	Bld. 1, conference room
<b>11<sup>30</sup>–12<sup>10</sup></b>	Visit to the historical and patriotic center of Kalashnikov ISTU	Bld. 3, 1 <sup>st</sup> floor
<b>12<sup>20</sup>–13<sup>00</sup></b>	Lunch	Cafe “Shpargalka”
<b>13<sup>00</sup></b>	Departure of foreign and Russian delegations to Sarapul	Square in front of Palace “Integral”
<b>14<sup>30</sup>–17<sup>00</sup></b>	Guided tour of Sarapul (Bashenin’s summer residence, sight-seeing tour)	
<b>17<sup>00</sup>–20<sup>00</sup></b>	Dinner	Restaurant “Old Tower”, Sarapul
<b>20<sup>00</sup></b>	Departure to Izhevsk	

### **25 April (Thursday)**

#### **Departure day**

Departure of the conference participants

ISTU campus  
Hotel “Park Inn”

**April 23, 2019**

**PLENARY SESSION**

*Venue: Izhevsk, Palace “Integral”, at 10:00*

**Co-chairmen**

*V. P. Grakhov*, Doctor of Science in Economics, Professor, Rector of Kalashnikov Izhevsk State Technical University, Russia

*P. Štěpánek*, CSc, Professor, Rector of Brno University of Technology, Czech Republic

Address of *A. V. Brechalov*, Head of the Udmurt Republic

Address of *A. M. Prasolov*, Chairman of the State Council of the Udmurt Republic

1. Kalashnikov ISTU: topical aspects of international cooperation

Speaker: *V. P. Grakhov*, Rector of Kalashnikov Izhevsk State Technical University

BUT – its place in European educational & research area

Speaker: *Petr Štěpánek*, Rector of Brno University of Technology, Czech Republic

2. Specifics of Slovak technical education in the frameworks of integration with European and world education systems

Speaker: *Peter Lipták*, Vice-Rector for Strategy and Development of Alexander

Dubček University of Trenčín, Slovak Republic, Doctor Honoris Causa of Kalashnikov ISTU

3. The galvanic lab of Kalashnikov ISTU as a successful model of international and national exchange in education, research and transfer

Speakers: *Horst Dettinger*, CEO of Zeh Metallveredelung GmbH, Germany, Doctor Honoris Causa of Kalashnikov ISTU, *Eckbert Hering*, Emeritus Rector of Aalen University, Germany, Doctor Honoris Causa of Kalashnikov ISTU

4. Improvement of BNTU activities based on the model “University 3.0”

Speaker: *O. K. Gusev*, Vice-Rector for Studies of Belorussian National Technical University, Republic of Belarus, Doctor Honoris Causa of Kalashnikov ISTU

## Session 1

# INTERNATIONALIZATION AND QUALITY ASSURANCE OF ENGINEERING EDUCATION

### Co-chairmen

*A. L. Kuznetsov*, Vice-Rector for Research and Innovations

Kalashnikov ISTU

*A. V. Ryabchikov*, Director of Institute of International Study Programs

Kalashnikov ISTU

1. *Aizikovich A. A., Rychina N. A.* Characteristic of graduation qualification papers in applied informatics  
Kalashnikov ISTU
2. *Arkhipova E. I., Krylov E. G.* System of training teachers of non-language disciplines for implementing study programs in English at the university  
Kalashnikov ISTU
3. *Akhmedzyanov E. R., Zhuikova O. V.* Application of 3D printing technology in the educational process in the disciplines “Descriptive geometry” and “Engineering graphics”  
Kalashnikov ISTU
4. *Bagrovnikova A. N., Bagrovnikova S. V.* Conceptual provisions of the development of engineering education system  
Kalashnikov ISTU
5. *Vatolkin M. Yu.* On teaching discrete mathematics in the specialty 09.02.05 “Applied informatics”  
Kalashnikov ISTU
6. *Vozmischeva T. G.* Fundamental knowledge and information technologies in research work of students at a technical university  
Kalashnikov ISTU
7. *Gareev A. A.* On professionally oriented educational blogs and solution of dichotomy “internal – external motivation” with their help  
Kalashnikov ISTU
8. *Gruzd S. A., Smirnova N. A.* Algorithm of obtaining individual tasks in mathematical statistics for students’ individual work
9. *Isakov V. G., Abramova A. A., Dyagelev M. Yu., Nepogodin A. M.* Unification of curricula for disciplines of hydrogasdynamic cycle  
Kalashnikov ISTU
10. *Iskanderova A. B.* Word problems in disciplines of mathematical cycle as a means of forming general professional competencies of bachelor students of a technical university  
Kalashnikov ISTU
11. *Klekovkin V. S., Goltsova O. B.* Management of mutual satisfaction of participants of educational process  
Kalashnikov ISTU
12. *Kolesnikova L. N., Popova E. I.* Promotion of STEM-education for young people with hearing disabilities

Kalashnikov ISTU

13. *Koroleva T. G., Gruzd S. A.* Competence mastering levels

Kalashnikov ISTU

14. *Krasavina Yu. V., Ponomarenko E. P., Serebryakova Yu. V., Zhuikova O. V.* Detection of peculiarities of visual information perception by students with hearing disabilities

Kalashnikov ISTU

15. *Lisina E. B., Selyunina N. V., Svetlakova V. A., Dyupina D. A., Ivanova O. A.* Information technologies in teaching labor protection

Kalashnikov ISTU

16. *Mikhalkin V. S.* Bilingual terminological dictionaries as a didactic tool in internationalization of engineering education

Kalashnikov ISTU

17. *Pozdeeva A. S.* Tutor activity as a factor of improving education quality

Kalashnikov ISTU

18. *Pushina N. N., Volkova I. O., Kamasheva A. A.* Experience in introducing the balanced score card at universities

Kalashnikov ISTU

19. *Ryabchikov A. V., Chukavina S. I.* Tools and methods of attracting international students to study programs of Kalashnikov ISTU

Kalashnikov ISTU

20. *Ryabchikov A. V., Elensky A. V.* Problems and perspectives of implementing study programs in foreign languages at the university

Kalashnikov ISTU

21. *Sannikov M. A.* Pedagogical conditions of forming information competence of students of a technical university

Kalashnikov ISTU

22. *Sevastyanov B. V., Shadrin R. O., Svetlakova V. A., Osmachko U. A., Nikitina O. Yu.* Application of VR-technologies in teaching labor protection

Kalashnikov ISTU

23. *Semin Yu. N.* Concept and technology of creating expert-teaching pedagogical system

Kalashnikov ISTU

24. *Perminova O. M., Startseva E. A.* Strategy of career-guiding work at a university as the basis for quality improvement of forming professional competencies

Kalashnikov ISTU

25. *Perminova O. M., Lisina E. B., Shulakova E. V., Selyunina N. V.* Formation of master training program of the study areas 38.04.02 “Strategic management” and 20.04.01 “Technospheric safety” based on the assessment of the formation level of professional competencies

Kalashnikov ISTU

26. *Taranukha N. L.* Education of engineers of the future at Kalashnikov Izhevsk State Technical University

Kalashnikov ISTU

27. *Toropova N. A.* Monitoring of health protection as a factor of education quality

Kalashnikov ISTU



28. *Troyanskaya A. I.* Stylistic reflexes of a student of a technical university  
Kalashnikov ISTU
29. *Štollmann V., Morongova J.* Evaluation of cooperation between Kalashnikov ISTU  
and Technical University in Zvolen  
Technical University in Zvolen
30. *Al Akkad M. Aiman.* Inclusion of machine learning discipline in higher education  
curricula  
Kalashnikov ISTU
31. *Grakhov V. P., Kislyakova Yu. G., Simakova U. F., Saidova Z. S.* Inclusive Educa-  
tion in Kalashnikov Izhevsk State Technical University  
Kalashnikov ISTU

## Session 2

# IT-TECHNOLOGIES, MATHEMATICAL MODELING AND ARTIFICIAL INTELLIGENCE

### Co-chairmen

*I. O. Arkhipov*, Director of the Institute of Informatics and Computer Engineering  
Kalashnikov ISTU

*G. Medvegy*, Dean of the Faculty of Engineering and Information Technology  
University of Pécs

1. *Blagodatsky Gregory A., Gorokhov Maxim M., Vologdin Sergey V., Perevedentcev Denis A.* Artificial intelligent algorithm of the knowledge base training of the expert system in a poorly formalized problem environment

Kalashnikov ISTU

2. *Koroleva M. R., Gizzatullina A. F., Zorina E. K., Mishchenkova O. V.* Modeling the Supersonic Gas Flow Over a Missile

Kalashnikov ISTU

3. *Lozhkin A. G., Grebnev S. N., Trubitsin A. A., Popov A. A.* On the Possibility of Analytical Calculations of Complex Curves

Kalashnikov ISTU

4. *Strokanev K. S., Korobeynikov A. V., Stepanov V. A.* Photoplethysmography system for video of face using Eulerian video magnification

Kalashnikov ISTU

5. *Sufiyarov Vadim G., Rusyak Ivan G., Dozorov Oleg V., Novikov Alexander V.* Designing a charge using CAD KOMPAS-3D and technology simulation of physical processes in real time

Kalashnikov ISTU

6. *Vavilova Daiana D., Ketova Karolina K., Kasatkina Ekaterina V.* Application of genetic algorithm for adjusting the structure of multilayered neural network for prediction of investment processes

Kalashnikov ISTU

7. *Vologdin Sergey V., Shuravin Alexander P., Korepanov Andrey V., Blagodatskiy Gregory A.* Research and optimization of multilevel centralized heat supply using system-oriented approach

Kalashnikov ISTU

8. *Sitnikov V. V., Lyuminarskiy V. V., Korobeynikov A. V.* The review of objects recognition methods used in computer vision systems

Kalashnikov ISTU

9. *Sitnikov V. V., Lyuminarskiy V. V., Korobeynikov A. V.* Application of machine vision systems in industry and analysis of images biological objects

Kalashnikov ISTU

### Session 3

## INDUSTRY 4.0, MECHANICAL ENGINEERING AND MECHATRONICS

### Co-chairmen

*Yu. O. Mikhailov*, Director of the Institute of Modern Technologies in Mechanical and Automotive Engineering and Metallurgy

Kalashnikov ISTU

*P. Lipták*, Vice-Rector for Strategy and Development, Doctor Honoris Causa of Kalashnikov ISTU

Alexander Dubček University of Trenčín, Slovak Republic

1. *Abramov I. V., Turygin Yu. V., Abramov A. I.* Experience in training master students of the study area 15.04.06 “Mechatronics and robotics” at Kalashnikov ISTU  
Kalashnikov ISTU
2. *Zhdanova L. I.* Composition and biological activity of some acyldiethylenetriamides of phosphoric acid  
Kalashnikov ISTU
3. *Kotelnikov M. A., Schenyatsky A. V.* Calculation and comparative analysis of sensitive element of navigation devices  
Kalashnikov ISTU
4. *Krasilnikov S. N., Chepikova T. P.* Modeling of laboratory stands for the investigation of belt drives  
Kalashnikov ISTU
5. *Mikhailov Yu. O., Tepin N. V., Khrabrov V. A.* Development of die forging technology using software package QFORM  
Kalashnikov ISTU
6. *Mikhailov Yu. O., Osetrov V. G., Schenyatsky A. V., Slashev E. S.* Way of adjusting the axial clearance in the unit with antifriction bearings  
Kalashnikov ISTU
7. *Morozov S. A., Morozov A. S.* Effective method of producing gear wheels, gears and pulleys  
Kalashnikov ISTU
8. *Morozov S. A., Morozov A. S.* Method of processing and systematizing information for its better understanding and memorizing  
Kalashnikov ISTU
9. *Nikitin Yu. R., Božek P., Pivarčiová E.* Development of diagnostic model of the drive in the state of space  
Kalashnikov ISTU
10. *Nikolaev A. V., Bogatyrev A. S.* Program module for processing the rules of comparison of register values of control-measuring instruments with reference values  
Kalashnikov ISTU
11. *Ple Khanov I. A., Pushkarev I. A., Pushkareva T. A.* Structural analysis of the methods for increasing load capacity of planetary gearings  
Kalashnikov ISTU
12. *Romanov A. V., Nikitin Yu. R., Trefilov S. A., Abramov A. I., Abramov I. V., Turygin Yu. V.* Hardware and software system for the diagnostics of drives of mobile robots

Kalashnikov ISTU

13. *Sevastyanov B. V., Shadrin R. O., Kaisheva T. A., Ivanov M. V.* Structural-logical model of introducing the system of labor protection management in a company

Kalashnikov ISTU

14. *Sivtsev N. S., Pogudin S. A.* To the issue of modeling friction in the processes of plastic deformation treatment

Kalashnikov ISTU

15. *Sobolev V. Val., Sobolev V. V.* Comparison of optical spectra of magnesium and silicon silicide

Kalashnikov ISTU

16. *Shemyakina E. Kh.* PLM as the component of the concept “Industry 4.0”

Kalashnikov ISTU

17. *Schenyatsky A. V., Basharova A. A.* Influence of physical and chemical treatment methods on macro- and micro-geometry of the product from quartz glass

Kalashnikov ISTU

18. *Shilyaev S. A., Kostyaev V. I., Lukin A. O.* Analytical determination of kinematic condition of operation of technological pair “tool – part” at screw instant relative motion

Kalashnikov ISTU

19. *Ahmetgaraeva E. I.* Methods of billing metal surfaces

Kalashnikov ISTU

20. *Ahmetgaraeva E. I.* Metals for the manufacture of artistic products with engraved surfaces on CNC machines

Kalashnikov ISTU

21. *Akkad M. A. Al, Moheb Rami Attia, Yousef Al-Ayashi* . Design and Simulation of an 8-Bit RISC Microprocessor

Kalashnikov ISTU

22. *Akkad M. A. Al, Gazimzyanov F. F.* Automated system for evaluating 2D-image compositional characteristics: configuring the mathematical model

Kalashnikov ISTU

23. *Dzuriš M., Hart'anský R.* Network analyzer calibration problem

Slovak University of Technology in Bratislava

24. *Ekhsayem D. O.* Strain analysis of solid bodies

Kalashnikov ISTU

25. *Hart'anský R., Mierka M.* New method of one-component force measurement

Slovak University of Technology in Bratislava

26. *Kucharovič M., Solovyov M., Gömöry F.* Creating and modeling a magnetic invisibility cloak

Slovak University of Technology in Bratislava

27. *Maksimova Y.* The automatic fire extinguishing in a big shopping mall

Kalashnikov ISTU

28. *Muravev V. V., Tapkov K. A.* Strain-stress modeling of crack in a rail

Kalashnikov ISTU

29. *Surkovky O., Stollmann V.* Alternative fuel kinds for forestry mechanisation

Technical University in Zvolen, Slovak Republic

**Session 4**  
**ELECTRONICS AND TELECOMMUNICATIONS**

**Chairman**

*A. V. Abilov*, Dean of the Faculty of Instrumentation Engineering  
Kalashnikov ISTU

1. *Ibragimov B. G., Dzhaifarova E. M.* Analysis of information security methods in telecommunications systems using quantum cryptography  
Azerbaijan Technical University
2. *Kopysov A. N., Nikitin M. L., Khvorenkov V. V., Klimov I. Z.* To the investigation of ways for improving interference immunity of broadband signals in mobile networks of wide application  
Kalashnikov ISTU
3. *Trifonova E. S., Glushkov V. A.* Concept of distributed automated system of generation and consumption of electrical power with mechanical power accumulator and its assessment in the conditions of the Russian Federation  
Kalashnikov ISTU
4. *Shilyaev S. A., Kopysov A. N., Khvorenkov V. V., Kostyaev V. I.* To the issue of training personnel for radioelectronic companies on the example of FSBEI HE “Kalashnikov ISTU” and JSC “IEMZ “Kupol”  
Kalashnikov ISTU
5. *Shishakov K. V.* Areas of educational activities of small specialized department with multi-profile corporation (on the example of FSBEI HE “Kalashnikov ISTU” and LLC “Corporation “Aksion”)  
Kalashnikov ISTU
6. *Kaysina I. A., Vasiliev D. S., Abilov A. V., Kaysin A. E.* Analytical study of quality of service in flying ad hoc network (FANET) based on free-space model  
Kalashnikov ISTU
7. *Manchenko I. V., Balashov A. V., Ushakov P. A.* Research of the influence of fractal capacity of the element with fractal impedance on the parameters of fractional order self-oscillator  
ИжГТУ имени М.Т. Калашникова
8. *Stoichev S. V., Ushakov P. A.* The concept of the program complex analysis and synthesis of elements with fractal impedance based on two-dimensional RC-EDP  
Kalashnikov ISTU

**Session 5**  
**CONSTRUCTION, DESIGN, POWER ENGINEERING AND HOUSING &  
UTILITY INFRASTRUCTURE**

**Co-chairmen**

*G. N. Pervushin*, Director of V. A. Shumilov Institute of Construction and Architecture

Kalashnikov ISTU

*R. Drochytka*, Director of the Institute of Building Technology and Components, Doctor Honoris Causa of Kalashnikov ISTU

Brno University of Technology, Czech Republic

1. *Gudkova P. I., Chepikova T. P., Krasilnikov S. N.* Analysis of drinking water quality in Tchaikovsky, Perm region

Kalashnikov ISTU

2. *Dedyukhova P. A., Taranukha N. L.* Problem of infill construction influence on existing buildings and structures and ways of its solution

Kalashnikov ISTU

3. *Isakov V. G., Abramova A. A., Nepogodin A. M.* Green technologies in purification of surface and waste waters of housing and utility infrastructure objects

Kalashnikov ISTU

4. *Pushkarev A. E., Pushkareva L. A.* Project of heat utilization of underground parking

Kalashnikov ISTU

5. *Semakina N. V.* Electronic course of qualification upgrade in construction and housing and utility infrastructure

Kalashnikov ISTU

6. *Chernykh M. M., Ostanina P. A.* Systematization of strategies of obtaining 3D-model of product with fracture surface

Kalashnikov ISTU

7. *Khvorenkov D. A., Varfolomeeva O. I.* Calculation of humidity conditions of materials for chimney pipes to select the operation mode of boiler plants

Kalashnikov ISTU

8. *Yakushev N. M., Ivanova A. V., Bazhenova T. R., Klyuchnikova O. N.* Topical problems of pricing reform in construction

Kalashnikov ISTU

9. *Mukanova A. G., Lozhkin Yu. V.* Design and technology of manufacturing a set of decorative products from wood and glass

Kalashnikov ISTU

10. *Didenko V. N., Isaev A. V., Uzakov N. D.* Comparison of heat losses in mesophilic and thermophilic anaerobic digestion mode

Kalashnikov ISTU

## Session 6

### TOPICAL ISSUES OF SOCIAL-ECONOMIC SCIENCES AND LINGUISTICS

#### Co-chairmen

*R. A. Galiakhmetov*, Director of the Institute of Digital Economy  
Kalashnikov ISTU

*V. A. Baranov*, Head of Linguistics Department  
Kalashnikov ISTU

1. *Arkhipova E. I.* Development and implementation of competence-oriented work programs of disciplines in a foreign language when teaching master students in a technical university  
Kalashnikov ISTU
2. *Barmina N. A., Zagoruiko I. N., Volkova D. A.* Peculiarities of teaching professional-oriented and literary translation using multimedia technologies  
Kalashnikov ISTU
3. *Beznosova M. I., Galiakhmetova A. R.* Socio-cultural and academic adaptation of international students as a necessary condition of export of Russian education  
Udmurt State University
4. *Volovik I. V., Malyshonkov I. O.* Social-philosophic aspect of engineering education  
Kalashnikov ISTU
5. *Galiakhmetov R. A., Pushina N. N.* Introduction of KPI system as a factor to increase the labor efficiency in a university  
Kalashnikov ISTU
6. *Ivanova I. B., Efremov A. V.* Comparative analysis of notations for describing business processes in graduation qualification papers  
Kalashnikov ISTU
7. *Kalinkina G. E., Kulikov V. A.* Experience in forming the program “Commercialization on innovations in information technologies” for master students  
Kalashnikov ISTU
8. *Koretsky V. P.* Ethics and “moral code” of a scientist in the sphere of education  
Kalashnikov ISTU
9. *Krasnova T. A., Volmenskikh E. V.* Semantic rethinking of computer terminology in a modern language  
Udmurt State University  
Kalashnikov ISTU
10. *Kuznetsova A. G., Khomenko E. B.* Topical issues of economic safety of a company in technical education  
Kalashnikov ISTU
11. *Kuznetsov A. L., Kolesnikova A. A.* On origin of corporate social responsibility of business  
Kalashnikov ISTU
12. *Matveeva I. V., Khomenko E. B.* Development scenarios of information-analytical support for small businesses  
Kalashnikov ISTU
13. *Lindr Jaroslav.* Interaction of contribution and quality of teaching social sciences

in a technical university

Brno University of Technology, Czech Republic

14. *Marchini E. N.* Linguistic safety in modern Russia

Kalashnikov ISTU

15. *Nikiforova T. A., Shikhov Yu. A., Shikhova O. F.* Development trajectory of foreign language communicative competence in the context of applying new educational technologies

Kalashnikov ISTU

16. *Ponomarenko E. P., Ivanova A. L.* Methods of interactive teaching of business English as a means of forming language identity of students of a technical university

Kalashnikov ISTU

17. *Tikhonov G. M.* External and internal factors of forming the state of loneliness of students

Kalashnikov ISTU

18. *Chainikova G. R.* Use of Google Classroom platform for teaching listening comprehension

Perm National Research Polytechnic University

19. *Repina T. Yu.* Mood and modal aspects

Kalashnikov ISTU