



Czech University of Life Sciences Prague

**Faculty of
Engineering**

TAE 2019

**Program of
7th International Conference on Trends in
Agricultural Engineering 2019**

17th - 20th September 2019, Prague, Czech Republic

TAE 2019

Conference program

7th International Conference on Trends in Agricultural Engineering 2019



September 17th 2019 – September 20th 2019
Prague, Czech Republic

Conference venue:
Conference TAE 2019, Round Hall, Faculty of Engineering, Czech University of Life Sciences Prague
Kamýčká 129, Praha 6, 16521

This conference program can be slightly modified.

All conference rooms are equipped with a computer, data projector and presenter.

*The computers will run MS Windows. PowerPoint and PDF presentation formats will be supported.
Presentations are limited to 10 minutes (15 minutes for plenary sessions) plus 5 minutes for discussion.*

It will not be able to extend this time so please ensure that you keep to this time.

All posters will be exhibited during TAE Conference. Posters should be installed in afternoon before first poster session on 18th of September.

Authors are expected to accompany their posters during posters sessions.

The poster should be prepared in the format of A0 portrait mode.

Dress code of TAE 2019 and all conference event is business casual.

Round Hall (Kruhová Hala), Faculty of Engineering, Czech University of Life Sciences Prague

17.09.2019	18.09.2019	19.09.2019	20.09.2019
Tuesday	Wednesday	Thursday	Friday
	8:00 – 10:00	9:00 – 10:00	Sightseeing trips and excursions. Optional trips (admission fee is not included in conference fee): National Technical Museum Prague http://www.ntm.cz/en ZOO Prague https://www.zoopraha.cz/en Sightseeing trips to Prague, Hop on Hop off Tour, http://www.hopon-hopoff.cz/eng/
	Registration	Parallel Sessions VII/ VIII	
	10:00 – 10:30	10:00 – 10:30	
	Opening ceremony	Coffe Break	
	10:30 – 12:10	10:30 – 12:00	
	Plenary session I/ II	Parallel Sessions IX/ X	
	12:10 – 14:00	12:00 – 14:00	
	Lunch - Club C	Lunch - Club C	
	14:00 – 15:30	14:00 – 15:30	
	Parallel Sessions III/ IV	Parallel Sessions XI/ XII	
	15:30 – 16:00	15:30 – 16:00	
	Coffe Break	Coffe Break	
	15:30 – 16:30	15:30 – 16:30	
	Poster session	Poster session	
17:00 – 19:00	14:00 – 18:00	14:00 – 18:00	
Registration	Parallel Sessions V/ VI	Parallel Sessions XIII/ XIV	
19:00 – 21:00	19:00 – 22:00	19:00 – 22:00	
Welcome Party Round Hall	Cultural program - Round Hall	Closing ceremony + Gala dinner - The Strahov Monastic Brewery, 18:00 - Bus departure to Klášterní pivovar Strahov from Round Hall, Faculty of Engineering	

17.9.2019

Tuesday**Faculty of Engineering - Round Hall**17:00 - 19:00 **Registration****19:00 - 21:00****Welcome Party**

18.9.2019

Wednesday**Faculty of Engineering - Round Hall****Plenary Session – Congress Room****Chairman: prof. D. Herák**8:00 - 10:00 **Registration**10:00 - 10:30 **Opening Ceremony**10:30 - 10:50 **František Kumhála***DEVELOPMENT OF CAPACITIVE THROUGHPUT SENSOR FOR PLANT MATERIALS*10:50 - 11:10 **Vigen Arakelyan***GRAVITY COMPENSATION IN ROBOTICS*11:10 - 11:30 **Udin Hassanudin***BIOMASS WASTE UTILIZATION TO PROMOTE SUSTAINABLE PALM OIL INDUSTRIES DEVELOPMENT IN INDONESIA*11:30 - 11:50 **Richard Godwin***THE EFFECT OF ALTERNATIVE TRAFFIC SYSTEMS AND TILLAGE ON SOIL CONDITION, CROP GROWTH AND PRODUCTION ECONOMICS*11:50 - 12:10 **Czech Academy of Agricultural Sciences presents Czech Scientific Journal published since 1954***RESEARCH IN AGRICULTURAL ENGINEERING***12:10 - 14:00****Lunch - Club C**

18.9.2019

Wednesday**Faculty of Engineering - Round Hall****Parallel Session 1 – Room Rku 1****Chairman: dr. Č. Mizera**14:00 - 14:15 **Jiří Blahovec, Pavel Kouřim***THERMAL ANALYSIS OF POTATO AND CARROT TISSUES AFTER PROCESSING BY PULSED ELECTRIC FIELD*14:15 - 14:30 **Sylwester Borowski***THE EFFECT OF THE CHANGE IN THE COMPOSITION OF THE SUBSTRATE IN THE AGRICULTURAL BIOGAS PLANT ON THE LOGISTICS OF MAIZE CHAFF*14:30 - 14:45 **Volodymyr Bulgakov, Valerii Adamchuk, Volodymyr Nadykto, Volodymyr Kyurchev***INFLUENCE OF MACHINE-TRACTOR SET CONSTRUCTIONAL PARAMETERS ON KINEMATIC DISCREPANCY IN TRACTOR WHEELS*14:45 - 15:00 **Ioannis Gravalos, Theodoros Gialamas, Avgoustinos Avgoustis, Dimitrios Kalfountzos, Martin Libra***A PORTABLE ROVER AS A TOOL FOR SOIL WATER MONITORING*15:00 - 15:15 **Gürkan A. K. Gürdil, Metin Dağtekin, Bahadır Demirel, Çimen Demirel, Vaclav Novak, Mahmut Dok***DETERMINING PELLETING PARAMETERS FOR ORANGE PRUNING RESIDUES*15:15 - 15:30 **Abraham Kabutey, Cestmir Mizera, David Herak, Petr Hrabě***PRELIMINARY EXPERIMENT ON COMPRESSION AND RELAXATION BEHAVIOUR OF BULK SESAME SEEDS AT VARYING FORCES AND SPEEDS***15:30 - 16:30** **Poster Session - Congress Room****15:30 - 16:00** **Coffee Break - Round Hall Cafeteria**

18.9.2019

Wednesday

Faculty of Engineering - Round Hall

Parallel Session III – Room RKU 1

Chairman: prof. F. Kumbála

16:00 - 16:15	Nikolay Aldoshin, Otari Didmanidze, Bakhadir Mirzayev, Farmon Mamatov <i>HARVESTING OF MIXED CROPS BY AXIAL ROTARY COMBINES</i>
16:15 - 16:30	Marek Angelovič, Koloman Krištof, Michal Angelovič, Ján Jobbágy <i>THE EFFECT OF POST-HARVEST PROCESSING IN MODEL LINE AT FOOD MAIZE GRAINS EXTERNAL AND INTERNAL QUALITY</i>
16:30 - 16:45	Patrik Burg, Alice Čížková, Vladimír Mašán, Jana Burgová, Božena Gladyszewska <i>THE IMPACT OF MULCHING MATERIALS ON THE SOIL MOISTURE DYNAMICS IN CENTRAL EUROPEAN VINEYARDS</i>
16:45 - 17:00	Dewi Agustina Iryani, Agus Haryanto, Wahyu Hidayat, Amrul, Mareli Talambanua, Udin Hasanudin, Sihyun Lee <i>TORREFACTION UPGRADING OF PALM OIL EMPTY FRUIT BUNCHES BIOMASS PELLETS FOR GASIFICATION FEEDSTOCK BY USING COMB (COUNTER FLOW MULTI-BAFFLE) REACTOR</i>
17:00 - 17:15	Algirdas Jasinskas, Jonas Česna, Nerijus Pašvenskas, Rolandas Domeika, Kęstutis Romaneckas, Jiří Mašek <i>STRAW PELLETS UTILIZATION FOR REDUCTION OF LIQUID MANURE HARMFUL GAS EMISSIONS</i>
17:15 - 17:30	Tomohiro Mori, Mitsuhiko Katahira <i>EVALUATING THE PERFORMANCE OF AI FOR SORTING GREEN SOYBEAN</i>
17:30 - 17:45	Ladislav Chládek, Pavel Kic, Petr Vaculík, Pavel Braný <i>THE IMPACT OF USED DIFFERENT COLORED RAW MATERIALS ON COLOUR OF PRODUCED BEER</i>

19:00 - 22:00

Cultural program - Round Hall

Concert ČZU Life Orchestra

Faculty Brewery "Suchdolský Jeník" Excursion

Reception

18.9.2019

Wednesday

Faculty of Engineering - Round Hall

Parallel Session II – Room RKU 2

Chairman: dr. K. Selvi

14:00 - 14:15	Shigeru Ichiura, Tomohiro Mori, Ken-Ichi Horiguchi, Mitsuhiko Katahira <i>EXPLORING IOT BASED BROILER CHICKEN MANAGEMENT TECHNOLOGY</i>
14:15 - 14:30	Jitka Kumbálová, Miroslav Růžička, Elena Castillo Lopéz, Martin Chyba <i>LOGISTICS SPRAWL IN PRAGUE'S SUBURB FROM SATELLITE IMAGES</i>
14:30 - 14:45	Jaromír Volf, Viktor Novák, Vladimír Ryženko <i>METHOD OF PATTERN RECOGNITION OF BIOCHIPS IN GENETIC ENGINEERING</i>
14:45 - 15:00	Kęstutis Romaneckas, Aida Adamavičienė, Edita Eimutytė, Jovita Balandaitė, Algirdas Jasinskas <i>THE IMPACT OF WEED CONTROL METHODS ON SUGAR BEET CROP</i>
15:00 - 15:15	Anna Oktavina Sembiring <i>UTILIZATION OF ENVIRONMENTAL ENGINEERING TECHNOLOGY IN PALM OIL INDUSTRY: CURRENT STATE</i>
15:15 - 15:30	Dai Tanabe, Shigeru Ichiura, Ayumi Nakatsubo, Takashi Kobayashi, Mitsuhiko Katahira <i>YIELD PREDICTION OF POTATO BY UNMANNED AERIAL VEHICLE</i>
15:30 - 16:30	Poster Session - Congress Room
15:30 - 16:00	Coffee Break - Round Hall Cafeteria

18.9.2019

Wednesday

Faculty of Engineering - Round Hall

Parallel Session IV – Room RKU 2

Chairman: dr. A. Kabutey

16:00 - 16:15	Dainis Berjoza, Ilmars Dukulis, Vilnis Pirs, Inara Jurgena <i>TESTING AUTOMOBILE BRAKING PARAMETERS BY VARYING THE LOAD WEIGHT</i>
16:15 - 16:30	Juraj Jablonický, Peter Opálený, Daniela Uhrinová, Juraj Tulík, Lazar Savin <i>INFLUENCE OF ECOLOGICAL FLUID ON THE WET DISC BRAKE SYSTEM OF THE TRACTOR</i>
16:30 - 16:45	Ivan Janoško, Patrícia Feriancová <i>THE EFFECT OF DIESEL ADDITIVE ON EMISSIONS AND ENGINE PERFORMANCE</i>
16:45 - 17:00	Ján Kosiba, Juraj Jablonický, Rastislav Bernát, Zoltán Záležák <i>FLOW CHARACTERISTICS OF THE TRACTOR HYDRAULIC CIRCUIT BY APPLICATION OF THE BIODEGRADABLE SYNTHETIC FLUID</i>
17:00 - 17:15	Marietta Markiewicz, Jerzy Kaszkowiak <i>RESEARCH ON ENGINE POWERED WITH A MIXTURE OF DIESEL OIL AND BIOCOMPONENT AT CHANGE OF FUEL INJECTION SETTINGS</i>
17:15 - 17:30	Zbyněk Vondrášek, Martin Polák <i>MEASUREMENT OF PERFORMANCE PARAMETERS IN SYSTEMS WITH FREQUENCY INVERTERS</i>
17:30 - 17:45	Mikhail N. Yerokhin, Otari N. Didmanidze, Nikolay Aldoshin, Ramil T. Khakimov <i>THE COMBUSTION PROCESS AND HEAT RELEASE IN THE GAS ENGINE</i>
17:45 - 18:00	Retta Zewdie, David Marčev, Martin Halberštát <i>AN ANALYSIS OF NOISE POLLUTANTS IN CITY SUBWAY TRANSPORTATION</i>

19:00 - 22:00

Cultural program - Round Hall

Concert ČZU Life Orchestra

Faculty Brewery "Suchdolský Jeník" Excursion

Reception

19.9.2019

Thursday

Faculty of Engineering - Round Hall

Parallel Session V – Room RKU 1

Chairman: doc. R. Chotěborský

9:00 - 9:15	Milan Daneček, Ivan Uhlíř <i>FAST AND RELIABLE POWER MEASUREMENT FOR ENERGY SOURCES TO ENHANCE DISTRIBUTION GRID STABILITY</i>
9:15 - 9:30	Jana Šafránková, Václav Beránek, Martin Libra, Vladislav Poulek, Jan Sedláček <i>CONSTRUCTION AND MONITORING OF THE UNIQUE ROOF PHOTOVOLTAIC SYSTEM IN PRAGUE</i>
9:30 - 9:45	Lukáš Vašítek, Vladimír Mašán, Patrik Burg, Jakub Šikora <i>ENERGY RECOVERY OF WASTE FROM THE VINEYARD AND WINERY</i>
9:45 - 10:00	Iwona Żabińska, Zbigniew Matuszak <i>COMMENTS ON THE DEVELOPMENT OF PROSUMER ENERGY IN POLAND</i>

10:00 - 10:30

Coffee Break - Round Hall Cafeteria

19.9.2019

Thursday

Faculty of Engineering - Round Hall

Parallel Session VII – Room RKU 1

Chairman: dr. A. Brunerová

10:30 - 10:45	Peter Čičo, Róbert Drlička, Radovan Šoška, Zdenko Róna <i>SOIL TESTS OF RENOVATED PLOUGHSHARE POINTS</i>
10:45 - 11:00	Rostislav Chotěborský <i>WEAR RESISTANT HIGH BORON STEEL FOR AGRICULTURE TOOLS</i>
11:00 - 11:15	Ján Lilko, Martin Kotus, Peter Dobiaš, Ondrej Ponjičan <i>HARDFACING ELECTRODES RESISTANCE IN LABORATORY CONDITIONS</i>
11:15 - 11:30	Vladimír Sojka, Petr Lepšík, Petra Hendrychová <i>MINIMIZING OF SETUP ATTEMPTS ON KILNFORMING PROCESS WITH DOE</i>

11:30 - 11:45	Martin Tichý, Viktor Kolář, Miroslav Müller <i>STATIC AND DYNAMIC MECHANICAL PROPERTIES OF COMPOSITE FROM TYRE WASTE MICROPARTICLES EPOXY RESIN</i>
11:45 - 12:00	Alexander Pastukhov, Evgeny Timashov, Olga Sharaya, Dmitry Bakharev <i>CAE-JUSTIFICATION OF THE LEADING SHAFT OF THE TEST STAND</i>
12:10 - 14:00	Lunch - Club C

19.9.2019

Thursday	Faculty of Engineering - Round Hall
Parallel Session IX – Room RKU 1	
Chairman: prof. M. Libra	
14:00 - 14:15	Eubomír Hujo, Štefan Čorňák, Zdenko Tkáč, Michaela Jánošová <i>LABORATORY RESEARCH OF TRANSMISSION – HYDRAULIC FLUID</i>
14:15 - 14:30	Petr Jindra <i>STUDY OF HHO GAS INFLUENCE ON OPERATING PARAMETERS IN CI ENGINE</i>
14:30 - 14:45	Jerzy Kaszkowiak, Marietta Markiewicz, Pawel Krzaczek <i>IMPACT OF THE APPLICATION OF BIOESTERS' ADDITION TO DIESEL OIL ON THE COURSE OF TURNING MOMENT AND POWER WITHIN THE SCOPE OF LOW ROTATIONAL SPEED AT VARIABLE SETTINGS OF FUEL INJECTION</i>
14:45 - 15:00	Jakub Mařík, Veronika Hartová, Martin Kotek <i>INFLUENCE OF BIOFUELS ON SKODA RAPID 1.6 TDI ENGINE'S EMISSIONS AND FUEL CONSUMPTION</i>
15:00 - 15:15	Marietta Markiewicz, Lukasz Muślewski <i>ANALYSIS OF TOXIC COMBUSTION COMPONENTS OF THE DIESEL ENGINE POWERED WITH A BLEND OF DIESEL FUEL AND BIODIESEL</i>
15:15 - 15:30	
15:30 - 16:30	Poster Session - Congress Room
15:30 - 16:00	Coffee Break - Round Hall Cafeteria

19.9.2019

Thursday	Faculty of Engineering - Round Hall
Parallel Session XI – Room RKU 1	
Chairman: dr. J. Mařík	
16:00 - 16:15	Marián Bujna, Pawel Kielbasa <i>OBJECTIFICATION OF FMEA METHOD PARAMETERS AND THEIR IMPLEMENTATION ON PRODUCTION ENGINEERING</i>
16:15 - 16:30	Ondřej Hadač, Petr Lepšík <i>DESIGN OF A CMM ACTUATION SYSTEM</i>
16:30 - 16:45	Jaroslav Mlýnek, Michal Petrů, Tomáš Martinec <i>DESIGN OF COMPOSITE FRAMES USED IN AGRICULTURAL MACHINERY</i>
16:45 - 17:00	
18:30	Bus departure to Galla Dinner from Round Hall, Faculty of Engineering
19:00 - 22:00	Galla Dinner Dinner in Prague's Old Town at Klášterní pivovar Strahov - http://www.klasterni-pivovar.cz/ (transportation will be arranged) - The Strahov Monastic Brewery, Klášterní pivovar Strahov, Strahovské nádvoří 301, Prague 1

19.9.2019

Thursday	Faculty of Engineering - Round Hall
Parallel Session VIII – Room RKU 2	
Chairman: doc. J. Kumhálová	
9:00 - 9:15	Rudolf Abrahám, Tomáš Zubčák, Radoslav Majdan <i>DRAWBAR PULL OF SMALL TRACTOR WITH SPECIAL LUG WHEELS</i>
9:15 - 9:30	Sergey Antonov, Gennady Nikitenko <i>SIMULATION OF LINEAR ELECTRIC MOTOR FOR ELECTROMECHANICAL PRUNER</i>

9:30 - 9:45	Jiří Kuře, Rostislav Chotěborský, Monika Hromasová, Miloslav Linda <i>DATA COLLECTION FOR NON LINEAR SOIL MODEL OF DEM</i>
9:45 - 10:00	Bakhadir Mirzayev, Farmon Mamatov, Nikolay Aldoshin, Mansur Amonov <i>ANTI-EROSION TWO-STAGE TILLAGE BY RIPPER</i>
10:00 - 10:30	Coffee Break - Round Hall Cafeteria

19.9.2019

Thursday	Faculty of Engineering - Round Hall
Parallel Session X – Room RKU 2	
Chairman: doc. G. Gürdil	
10:30 - 10:45	Ján Csillag, Ana Petrović, Vlasta Vozárová, Matúš Bilčík, Monika Božiková, Tomáš Holota <i>COMPARISON OF RHEOLOGICAL PROPERTIES OF NEW AND USED BIOLUBRICANTS</i>
10:45 - 11:00	Metin Dağtekin, Gürkan A. K. Gürdil, Bahadır Demirel <i>BIO-ENERGY POTENTIAL FROM LEMON ORCHARDS</i>
11:00 - 11:15	Peter Hlaváč, Monika Božiková, Zuzana Hlaváčová <i>SELECTED RHEOLOGICAL PROPERTIES OF SOME TOMATO KETCHUPS</i>
11:15 - 11:30	Kemal Çagatay Selvi, Önder Kabas, Mehmet Karataş <i>FORCE REQUIREMENTS OF DIFFERENT MANUAL PRUNING SHEARS WHEN CUTTING ABELLA (ABELLA GRANDIFLORA) BRANCHES</i>
11:30 - 11:45	Onder Kabas, K. Çagatay Selvi, Ilker Unal <i>DETERMINATION OF SOME ENGINEERING PROPERTIES OF KUMQUAT RELATED TO DESIGN PARAMETERS</i>
11:45 - 12:00	Pavel Kovaříček, Josef Hůla, David Hájek, Marcela Vlášková <i>SURFACE WATER RUNOFF DURING RAINFALL AFTER COMPOST INCORPORATION INTO SOIL</i>
12:10 - 14:00	Lunch - Club C

19.9.2019

Thursday	Faculty of Engineering - Round Hall
Parallel Session XII – Room RKU 2	
Chairman: dr. J. Pavlu	
14:00 - 14:15	Ingrid Karandušová, Jana Lendelová, Štefan Bod'o, Štefan Mihina, Štefan Pogran <i>PRODUCTION OF POLLUTANTS FROM ORGANIC LITTER FOR DAIRY COW</i>
14:15 - 14:30	Martina Ryvolová <i>THE EFFECT OF MOISTURE ON THE MECHANICAL PROPERTIES OF FLAX PREPREG</i>
14:30 - 14:45	Petr Šařec, Václav Novák, Kateřina Křížová <i>EFFECT OF ORGANIC FERTILIZERS, BIOCHAR AND OTHER CONDITIONERS ON MODAL LUVISOL</i>
14:45 - 15:00	Jiří Souček, Radek Pražan, Jan Velebil <i>EFFECT OF NITROGEN FERTILIZATION ON THE COLOUR OF WHEAT LEAVES AS AN INDICATOR OF APPLICATION DEFICIENCY</i>
15:00 - 15:15	Jiří Vomáčka, Petr Novák, Josef Hůla, Zdeněk Kvíz <i>QUALITY ASSESSMENT OF SELECTED TILLAGE MACHINES FOR SECONDARY SOIL TILLAGE</i>
15:15 - 15:30	
15:30 - 16:30	Poster Session - Congress Room
15:30 - 16:00	Coffee Break - Round Hall Cafeteria

19.9.2019

Thursday	Faculty of Engineering - Round Hall
Parallel Session XIV – Room RKU 2	
Chairman: doc. Z. Aleš	
16:00 - 16:15	Jindrich Pavlu, Vaclav Legat, Zdenek Ales <i>ESTIMATION TRENDS IN THE MAINTENANCE OF A MANUFACTURING EQUIPMENT RELATION TO THE INDUSTRY 4.0 CHALLENGE</i>

16:15 - 16:30	Martin Polák <i>BEHAVIOUR OF 3D PRINTED IMPELLERS IN PERFORMANCE TESTS OF HYDRODYNAMIC PUMP</i>
16:30 - 16:45	Marcin Zastempowski, Andrzej Bochat <i>THE BEATER SHREDDING ASSEMBLY – CLASSIC AND NEW CONSTRUCTION</i>
16:45 - 17:00	
18:30	Bus departure to Klášterní pivovar Strahov from Round Hall, Faculty of Engineering
19:00 - 22:00	Galla Dinner Dinner in Prague's Old Town at Klášterní pivovar Strahov - http://www.klasterni-pivovar.cz/ (transportation will be arranged) - The Strahov Monastic Brewery, Klášterní pivovar Strahov, Strahovské nádvoří 301, Prague 1

18.09.2019 / 19.9.2019

Wednesday

Faculty of Engineering - Round Hall

Thursday

15:30 - 16:30

Poster Session - Congress Room

1	Radomír Adamovský, Pavel Neuberger <i>HORIZONTAL GROUND HEAT EXCHANGERS – LOW-TEMPERATURE ENERGY SOURCE</i>
2	Olaosebikan Layi Akangbe, Jiří Blahovec, Radomír Adamovský, Miloslav Linda, Monika Hromasová <i>A DEVICE TO MEASURE WALL FRICTION DURING UNIAxIAL COMPRESSION OF BIOMATERIALS</i>
3	Zdenek Ales, Jindrich Pavlu, Marian Kucera, Vaclav Legat <i>RELIABILITY CHARACTERISTICS OF MECHANICAL OBJECTS OF AGRICULTURAL MACHINES</i>
4	Matuš Bilčík, Monika Božiková, Martin Malínek, Patrik Kósa, Marián Kišev, Juraj Baláži, Ana Petrović, Ján Csillag <i>THE TIME-TEMPERATURE DEPENDENCIES OF POLYCRYSTALLINE PHOTOVOLTAIC MODULE DIFFERENT PARTS</i>
5	Nikola Čermáková, Petr Šařec, Oldřich Látal <i>IMPACT OF MANURE AND SELECTED CONDITIONNERS ON PHYSICAL PROPERTIES OF CLAY SOIL</i>
6	Oldřich Dajbych <i>ULTIMATE TENSILE STRENGTH OF THE STRING DETERMINATION USING SPECTRAL ANALYSIS</i>
7	Šárka Dvořáková, Josef Zeman <i>ELLIPSE ROTATION UNDER A PRESSURE</i>
8	Vítězslav Fliegel, Petr Lepšík, Rudolf Martonka <i>INNOVATION MEASUREMENT DEVICE OF CAR SEATS</i>
9	Jan Hart, Veronika Hartová, Martin Kotek, Veronika Štekerová <i>ANALYSIS OF WIRELESS TRANSMISSION LATENCY IN THE 2.4 GHZ AND 5 GHZ ISM UNDER LOAD OF NETWORK WITH DATA STREAM</i>
10	Petr Heřmánek, Adolf Rybka, Ivo Honzík <i>QUALITY OF HOPS AT DIFFERENT DRYING TEMPERATURES IN CHAMBER DRYER</i>
11	Míchal Holúbek, Jakub Čedík, Hien Vu, Martin Pexa <i>INFLUENCE OF DIESEL – BUTANOL FUEL BLENDS ON PRODUCTION OF SOLID PARTICLES BY CI ENGINE</i>
12	Lukáš Jan Hrabánek <i>THE COMBINATION OF RETROREFLECTIVE MATERIALS ON ROAD SIGNS</i>
13	Bohumil Chalupa, Josef Zeman <i>THE TIDAL COMPONENT OF NATURAL RADIATION BACKGROUND</i>
14	Egidijus Katinas, Rostislav Choteborsky, Miloslav Linda, Vytenis Jankauskas <i>SOIL RIPPER WEAR EVALUATION BY DISCRETE ELEMENT METHOD</i>
15	Mariia Khrapova, Lukáš Jan Hrabánek, David Marčev <i>THE DEGRADATION RATE OF RETROREFLECTIVE MATERIALS</i>

16	Martin Kotek <i>ANALYSIS OF PARTICULATE MATTER PRODUCTION DURING DPF SERVICE REGENERATION</i>
17	Pavel Kouřim, Bohumil Chalupa, Josef Zeman <i>VARIATION OF THE STERILISATION BOTTLE FOR SOLAR WATER DISINFECTION</i>
18	Václav Krpěčík, František Kumbhála, Jakub Lev <i>MEASUREMENT THE VOID OF WOODEN CHIPS BY GAS DISPLACEMENT METHOD</i> Marian Kučera, Milan Kadnár, František Tóth, Jozef Rédl, Jozef Nosian <i>EFFECT OF LOAD CONDITIONS ON THE SIZE AND PRODUCTS OF WEAR</i>
19	Martin Kúrka, Michal Hruška <i>ASSESSMENT OF THE WAY HOLDING STEERING WHEEL IN DIFFERENT TRAFFIC SITUATIONS</i>
20	Miroslav Macák, Vladimír Rataj, Marek Barát, Ján Kosiba, Jana Galambošová <i>DETERMINING SOIL COMPACTION AT TRAFFIC LINES WITH PROXIMAL SOIL SENSING</i>
21	Daniel Mader, Martin Pexa, Jakub Čedík, Bohuslav Peterka, Zbyněk Vondrášek <i>INFLUENCE OF OPERATING PARAMETERS OF THE VEHICLE ON THE ROLLING RESISTANCE SIZE WITH THE VARIABLE DIAMETER OF THE TEST ROLLER</i>
22	Ivan Mašín <i>EVOLUTIONARY ANALYSIS OF AUTONOMOUS AGRICULTURAL VEHICLES</i>
23	Adéla Melicharová, Jiří Mašek, Stanislav Kovář <i>INFLUENCE OF SOIL TILLAGE ON WATER INFILTRATION IN LIGHT SOIL CONDITIONS OF CENTRAL BOHEMIA</i>
24	Miroslav Mimra, Miroslav Kavka, Petr Markytán <i>EVALUATION OF ECONOMIC RISKS IN PRODUCING WINTER OILSEED RAPE</i>
25	Pavel Neuberger, Radomír Adamovský <i>VERTICAL GROUND HEAT EXCHANGERS – LOW-TEMPERATURE ENERGY SOURCES</i>
26	Ha Nguyen Van, Ladislav Sevcik <i>OPTIMIZATION OF THE GROOVE CAM MECHANISM</i>
27	Václav Novák, Kateřina Křížová, Petr Šařec, Ondřej Látal <i>EFFECTIVE DOSE OF BIOCHAR WITHIN THE FIRST YEAR AFTER APPLICATION</i>
28	Ana Petrović, Vlasta Vozárová, Ján Csillag, Matúš Bilčík <i>SOME PHYSICAL PROPERTIES OF BIODIESEL BLENDS WITH GASOLINE</i>
29	Jozef Rédl, Marian Kučera <i>RAIN-FLOW ANALYSIS OF PLOUGH FRAME BEAM</i>
30	Adolf Rybka, Petr Heřmánek, Ivo Honzík <i>HOP DRYING IN BELT DRYER USING COOLING CHAMBERS</i>
31	Jan Sailer, Tomáš Hladík <i>CONSISTENT MAINTENANCE MANAGEMENT MODEL</i>
32	Ondřej Šařec, Petr Šařec <i>TILLAGE SYSTEMS OF WINTER OILSEED RAPE (BRASSICA NAPUS L.) PRODUCTION WITH RESPECT TO COSTS, ENERGY AND LABOUR CONSUMPTION</i>
33	Ladislav Ševčík <i>PROTECTIVE ELEMENTS OF AGRICULTURAL ELECTRIC VEHICLES</i>
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