

Program of the XIII. International Scientific Conference
Mobile Energetic Devices – Hydraulics - Environment -
Ergonomics of Mobile Machines

8.9. 2025 – MONDAY

14:00	Accommodation + wellness
17:30	Registration of participants
18:00	Dinner + free program

9.9. 2025 – TUESDAY

8:00 – 9:00	Breakfast
9:00	Official opening of the conference
9:05 – 12:00	Lecture section no. 1
12:00 – 13:00	Lunch
13:00 – 16:50	Lecture section no. 2
18:00	Dinner
20:00	Social evening

10.9. 2025 – WEDNESDAY

8:00 – 9:00	Breakfast
9:30 – 12:00	Excursion – CSM Industry Tisovec
12:00 – 13:00	Lunch
13:00 – 15:20	Lecture section no. 3
15:30	Conference evaluation and closure

LECTURE SECTION no. 1 (9.9. 2025 – TUESDAY)

9:05 – 9:20	Miroslav DRMLA – Jakub DRMLA BRC SLOVAKIA
9:20 – 9:30	Michal ANGELOVIČ – Tomáš BELIANSKY – Ján JOBBÁGY – Koloman KRIŠTOF – Tomáš GIERTL ANALÝZA VPLYVU SYSTÉMU PESTOVANIA A TECHNIKY NA KVALITU VYBRANÉHO DRUHU ZELENINY
9:30 – 9:40	Monika Barbara GACH – Oliwia SOLOCH – Bartłomiej BEDNARZ – Krzysztof MICHALEC – Krzysztof SŁOWIŃSKI EVALUATION OF SELECTED PHYSICAL AND MECHANICAL PROPERTIES OF POST CONSUMER SPRUCE WOOD (PICEA ABIES (L.) H.KARST) - A CASE STUDY OF THE HABSBURG FORESTER'S LODGE IN SOPOTNIA WIELKA
9:40 – 9:50	Tomáš GIERTL – Filip VRABEC – Ján GADUŠ – Michal ANGELOVIČ – Ján JOBBÁGY – Koloman KRIŠTOF VPLYV BIOUHLIA NA ANAERÓBNU FERMENTÁCIU MAŠTALNÉHO HNOJA
9:50 – 10:00	Milan HELEXA – Jozef KRILEK – Ján KOVÁČ POROVNANIE RADIÁLNEJ A DIAGONÁLNEJ PNEUMATIKY Z POHLADU VALIVÝCH ODPOROV NA LESNEJ PÔDE
10:00 – 10:10	Jakub CHROSTEK – Arkadiusz STAŃCZYKIEWICZ FUEL CONSUMPTION DURING TIMBER SKIDDING USING FORWARDER WITH CLAMBUNK
10:10 – 10:20	Ján JOBBÁGY – Dušan ŠIŠKA – Koloman KRIŠTOF – Michal ANGELOVIČ – Tomáš GIERTL ANALÝZA VYUŽÍVANIA VYBRANÉHO VINOHRADNÍCKEHO TRAKTORA
10:20 – 10:40	COFFEE BREAK
10:40 – 10:50	Ján JOBBÁGY – Adam František ČUDAI EKONOMICKÉ ZHODNOTENIE APLIKÁCIE VYBRANÉHO TRAKTORA V POĽNOHOSPODÁRSTVE
10:50 – 11:00	Mariusz KORMANEK – Stanisław MAŁEK MEASUREMENT OF CHANGES IN THE FILTRATION OF SOILS ON FOREST CROPS USING THE SATURO DEVICE
11:10 – 11:20	Ján JOBBÁGY – Nikola TURČEKOVÁ BEZPEČNOSŤ VYUŽÍVANIA TRAKTORA VO VYBRANOM PODNIKU
11:20 – 11:30	Ján KOVÁČ – Tomáš KUVIK ANALYSIS OF TECHNICAL PARAMETERS OF FORESTRY WINCHES
11:30 – 11:40	Ján JOBBÁGY – Peter DANČANIN MODERNIZÁCIA PIVOTOVÉHO ZAVLAŽOVAČA VO VYBRANOM PODNIKU
11:40 – 11:50	Koloman KRIŠTOF – Jakub TRNKA – Ján JOBBÁGY – Michal ANGELOVIČ – Tomáš GIERTL VPLYV PRÍDAVKU BIOUHLIA NA KVALITATÍVNE PARAMETRE PELIET Z FYTOMASY

11:50 – 12:00	Marián KUČERA – Michaela HNILICOVÁ – Jakub DRMLA POSÚDENIE DEGRADÁCIE HYDRAULICKÉHO OLEJA METÓDOU KOLORIMETRICKÉHO MERANIA FARBY MEMBRÁNY
LECTURE SECTION no. 2 (9.9. 2025 – TUESDAY)	
13:00 – 13:10	Ján JOBBÁGY – József ZSEMBELI – Géza TUBA INFILTRATION MONITORING AT TWO DIFFERENT SOIL INPUT CONDITIONS
13:10 – 13:20	Vladimír MANČEL – Marek BARTKO MERANIE SYPNÉHO UHLA GUMENÝCH A PLASTOVÝCH GRANULÁTOV POMOCOU METÓDY KUŽELA
13:20 – 13:30	Danuta OWOC – Przemysław SPYCHAJ USE OF THE BRINELL METHOD IN TESTING THE HARDNESS OF SELECTED FOREST TREE SPECIES
13:30 – 13:40	Adam TKÁČ – Ján JOBBÁGY VARIABILITA INFILTRAČNEJ SCHOPNOSTI V ZÁVISLOSTI OD VSTUPNÝCH PODMIENOK
13:40 – 13:50	Paweł TYLEK – Florian ADAMCZYK – Marek SZYCHTA – Grzegorz SZEWCZYK – Mariusz KORMANEK – Krzysztof LESZCZYŃSKI HYDRAULIC DRIVE AND CONTROL SYSTEMS FOR AN AUTONOMOUS AFFORESTATION PLANTER
13:50 – 14:00	Miroslava ŤAVODOVÁ – Samuel ZACHAR – Jozef KRILEK HODNOTENIE TEXTÚR POVRCHOV SEKACÍCH NOŽOV
14:00 – 14:10	Monika ANISZEWSKA – Arkadiusz GENDEK – Katarzyna BALTAZIUK – Paweł TYLEK – Jozef KRILEK EFFICIENCY OF THE TECHNOLOGICAL LINE FOR SEWING LARGE SEEDS IN CONTAINER NURSERIES
14:10 – 14:30	COFFEE BREAK
14:30 – 14:40	Zuzana BRODNIANSKÁ – Marek LIPNICKÝ TEMPERATURE COMPARISON OF THE ENGINE COOLER COOLING PROCESS FOR THE COOLER FAN AND THE IMPINGEMENT FAN
14:40 – 14:50	Monika ANISZEWSKA – Arkadiusz GENDEK – Wiktoria ŁAŻEWSKA – Jozef KRILEK – Iveta ČABALOVÁ – Paweł TYLEK LABORATORY METHOD FOR MEASURING THE PUNCTURE FORCE OF OAK SEEDS USING A STRENGTH TESTING MACHINE ATTACHMENT
14:50 – 15:00	Iveta ČABALOVÁ – Jozef KRILEK – Martin ZACHAR EVALUATION OF PARTICLEBOARD CONTAINING RUBBER FILLER FROM THE POINT OF VIEW OF FIRE PROPERTIES
15:00 – 15:10	Arkadiusz GENDEK – Monika ANISZEWSKA – Jozef KRILEK – Tomáš KUVÍK – Iveta ČABALOVÁ – Jan MALAŤÁK – Jan VELEBIL LABORATORY TESTS OF RESISTANCE DURING CHIPLESS CUTTING OF WOOD WITH A FLAT KNIFE

15:10 – 15:20	Iveta ČABALOVÁ – Jozef KRILEK – Rupali TIWARI – Ivan RUŽIAK – Anna DARABOŠOVÁ THERMOPHYSICAL CHARACTERISATION OF WOOD-RUBBER COMPOSITES
15:20 – 15:30	Milan HELEXA – Jozef KRILEK – Ján KOVÁČ RADIAL AND DIAGONAL TYRES ON FOREST SOIL FROM THE POINT OF VIEW OF A ACHIEVED ROLLING RESISTANCE
15:30 – 15:50	COFFEE BREAK
15:50 – 16:00	Iveta ČABALOVÁ – Tatiana BUBENÍKOVÁ – Eva VÝBOHOVÁ – Helena HYBSKÁ – Anna DARABOŠOVÁ VOLATILE ORGANIC COMPOUNDS EMITED FROM THE WOOD-RUBBER COMPOSITES
16:00 – 16:10	Jakub CHROSTEK – Arkadiusz STAŃCZYKIEWICZ FUEL CONSUMPTION DURING TIMBER SKIDDING WITH THE PONSSE BUFFALO FORWARDER WITH CLAMBUNK CONSTRUCTION
16:10 – 16:20	Iveta ČABALOVÁ – Miroslav NĚMEC – Rupali TIWARI ACOUSTIC PROPERTIES OF NEW WOOD-PLASTIC COMPOSITES
16:20 – 16:30	Joanna JASZCZYK – Paweł TYLEK ADMITTANCE MEASUREMENT IN THE ASSESSMENT OF THE PHYSIOLOGICAL CONDITION OF PEDUNCULATE OAK SEEDLINGS
16:30 – 16:40	Mariusz KORMANEK – Stanisław MAŁEK SATURO NEW DEVICE FOR DETERMINING THE SOIL FILTRATION COEFFICIENT IN THE FIELD
16:40 – 16:50	Ján KOVÁČ ASSESSMENT OF TECHNICAL PARAMETERS OF FORESTRY WINCHES

LECTURE SECTION no. 3 (10.9. 2025 – WEDNESDAY)

13:00 – 13:10	Danuta OWOC – Przemysław SPYCHAJ APPLICATION OF THE BRINELL METHOD FOR ASSESSING THE HARDNESS OF SPECIFIC FOREST TREE SPECIES
13:10 – 13:20	Paweł TYLEK PATENT AND IMPLEMENTATION ACHIEVEMENTS OF THE DEPARTMENT OF FOREST UTILIZATION AND FOREST TECHNOLOGY OF THE AGRICULTURAL UNIVERSITY OF KRAKOW
13:20 – 13:30	Oleg STYRANIVSKY – Andriy SHCHUPAK – Natalia SHEVCHENKO LABORATORY STUDIES OF RUT FORMATION PROCESSES WITH REPRODUCTION OF FOREST MACHINES OPERATING CONDITIONS
13:30 – 13:40	Vladimír MANCEL – Marek BARTKO COMPARISON OF METHODS FOR MEASURING THE ANGLE OF REPOSE OF GRANULATE MATERIALS
13:40 – 13:50	Natalia SHEVCHENKO – Yurii BLYASHYNETS IMPROVING ENGINE PREHEATING PROCESSES FOR TIMBER TRUCKS PRIOR TO START-UP

13:50 – 14:00	Zuzana BRODNIANSKÁ – Marek LIPNICKÝ EXPERIMENTÁLNY VÝSKUM VPLYVU RÝCHLOSTI PRÚDIACEHO VZDUCHU NA CHLADIACI PROCES V CHLADIACOM OKRUHU MOTORA AUTOMOBILU
14:00 – 14:20	COFFEE BREAK
14:20 – 14:30	Grzegorz SZEWCZYK – Dariusz KULAK – Tomasz REPAK EFFICIENCY OF MACHINE TIMBER HARVESTING IN STANDS WITH DESIGNATED AND UNDESIGNATED THINNING
14:30 – 14:40	Monika VARGOVÁ – Miroslava ŤAVODOVÁ POROVNANIE MECHANICKÝCH VLASTNOSTÍ UPRAVENÝCH SEKACÍCH NŮŽOV
14:40 – 14:50	Tomáš KUVIK – Vladimír MANCEL – Ján KOVÁČ EXPERIMENTAL EVALUATION OF SPLITTING FORCE DETERMINATION METHODS IN WOOD SPLITTING TECHNOLOGIES
14:50 – 15:00	Jozef KRILEK DIAGNOSTICS OF ROLLER BEARINGS OF A CONTINUOUS PARTICLEBOARD PRESS
15:00 – 15:10	Tomáš KUVIK – Vladimír MANCEL – Ján KOVÁČ METÓDY MERANIA ŠTIEPACEJ SILY
15:10 – 15:20	Marián KUČERA – Michaela HNILICOVÁ – Jakub DRMLA CAUSES OF HYDRAULIC OIL DEGRADATION AND VARNISH FORMATION