

CONTENTS

Baráth Martin, Boszorádová Lucia, Palenkáš Pavol, Kotus Martin EFFECT OF ANNEALING ON MECHANICAL PROPERTIES OF 3D PRINTED SPECIMENS.....	6
Bilčík Matúš, Čurgaliová Gabriela, Božiková Monika, Csillag Ján, Paulovič Stanislav, Madola Vladimír SELECTED THERMAL AND RHEOLOGIC PARAMETERS OF FUELS WITH BIO INGREDIENT	12
Boszorádová Lucia, Baráth Martin, Palenkáš Pavol, Kotus Martin EFFECT OF MACHINING PARAMETERS TO TRIBOLOGICAL PROPERTIES OF MATERIAL WITH USING BIODEGRADABLE CUTTING FLUID.....	17
Csillag Ján, Madola Vladimír, Bilčík Matúš, Hauliková Ana, Božiková Monika, Kubík Ľubomír SELECTED THERMO-ENERGETIC PARAMETERS OF PELLETS MADE FROM AGRICULTURAL WASTE	22
Černilová Barbora, Kuře Jiří, Linda Miloslav THE REVIEW ON METHODS OF MONITORING THE MOVEMENT OF PARTICULATE MATTER IN AGRICULTURE	28
Čurgaliová Gabriela, Kosiba Ján DEGRADATION OF HYDRAULIC ECOLOGICAL FLUID DURING PERFORMANCE TEST	35
Edrová Jitka, Brož Pavel THE APPLICATION OF THE STANDARD – MINIMUM LEVELS OF SOIL MANAGEMENT TO REDUCE EROSION	40
Hortobágyi Áron, Koleda Peter, Kminiak Richard VIBRATION VARIATIONS AT CNC GRIPPER DURING MILLING PROCESS OF MDF AND PARTICLEBOARD	45
Hudec Lukáš, Beňo Pavel DISC BRAKE INSTABILITY EVALUATION USING THE COMPLEX EIGENVALUE ANALYSIS.....	51
Káčer Peter, Kadnár Milan DESIGN OF EXPERIMENT IN WELDING OF STAMPED PARTS	57
Káčer Peter, Kadnár Milan PREDICTION OF FINAL DIMENSION OF THE PART IN THE PROCESS OF PRESSING AND SUBSEQUENT WELDING	64
Kollárik Rastislav, Vitázek Ivan CFD SIMULATION OF EJECTOR IN A COOLING SYSTEM	70
Křivánková Lenka, Chotěborský Rastislav, Linda Miloslav MEASURING OF CELL SIZE OF FE-B ALLOYS.....	79
Kunecová Daniela, Hlaváč Peter, Szabo Ľubomír THERMOGRAVIMETRIC ANALYSIS OF PELLETS FROM WASTE WOOD OF TREES.....	85
Lipnický Marek, Brodnianská Zuzana FOULING ANALYSIS OF THE EXTERNAL SURFACE OF CAR COOLER IN THE ENGINE COOLING SYSTEM	90

Lüttmerding Gabriel, Gálik Roman, Boďo Štefan THE USE OF DIGITALLY ACQUIRED DATA TO ASSESS THE ACCURACY OF LOADING OF TOTAL MIXED RATION COMPONENTS ON DIFFERENT DAIRY FARMS.....	99
Madola Vladimír, Tóth Ladislav, Vacho Lukáš, Bilčík Matúš, Cviklovič Vladimír, Adamovský František, Lukáč Ondrej, Paulovič Stanislav INTERPRETATION OF THE FUNDAMENTAL FREQUENCY OF THE DISCRETE SPECTRA AS A POSSIBLE QUANTIFIER OF THE INCLINATION IN COMPARISON WITH THE FREQUENCY SPECTRA IN ULTRASOUND DISTANCE MEASUREMENT	105
Mancel Vladimír SIEVE ANALYSIS OF WASTE WOOD PARTICLES	109
Mojžiš Marek, Rataj Vladimír, Jobbágy Ján ANALYSIS OF MACHINE EFFECTS ON CULTIVATED SOIL	115
Paumer Martin, Kosiba Ján THE PROCESS OF EMISSION INSPECTIONS IN THE CONDITIONS OF THE SLOVAK REPUBLIC.....	122
Szentesi Maroš, Hauliková Ana, Kažimírová Viera MECHANICAL PROPERTIES OF ALTERNATIVE PELLETS.....	129
Vargová Monika, Ťavodová Miroslava, Krilek Jozef COMPARISON OF THE ABRASION RESISTANCE ACCORDING TO GOST 23.208-79 OF TWO HARDFACING MATERIALS.....	133

Dear participants of the XXIV International Conference

You have just received the proceedings of a conference (published 2-3 months after the conference). The twenty-fourth edition of the conference was a success, and that was the reason why we want to continue the tradition, the goal of which is to get acquainted with the achievements of young scientists at an international level and to provide them with experience in the areas of conference focus.

The XXIV International Conference of Young Scientists and young scientists took place on 12-14 October 2022 at the AgroBioTech Research Center as the event of the Faculty of Technology in Slovakia. After two years of the COVID-19 pandemic (in 2020 and 2021), in 2022, the event was held in person with participation. Except for our doctoral students, teachers, postgraduate students and young researchers from the Faculty of Technology (TU Zvolen). The scientific program and the contributions of the participants are published in the proceedings of the *Young Scientists – ICYS 2022* after a successful conference.

The scientific committee of the conference stated that the level was very good to excellent level, while the doctoral students made scientifically valuable contributions and excellent presentations. It is in knowing each other and becoming familiar with each other and other creative activities.

We, the more experienced ones, know that science is a continuous process and we realize that science in Slovakia, in Europe, is not only a theory but also find their application in it. This is also how the results of the conference are expressed. The next XXV edition of the ICYS 2023 will be held in 2023.

We look forward to meeting and continuing the tradition of the conference.

37

