

NEW METHODS OF DAMAGE AND FAILURE ANALYSES OF STRUCTURAL PARTS (STUDENT SECTION)

12:30	12:40	Chairman: prof. Ing. Bedřich Smetana, Ph.D. prof. Ing. Markéta Tkadlečková, Ph.D.	15:10	15:20	Coffee break
12:40	13:20	Study programme: Metallurgical Technology	15:20	16:30	Study programme: Nanotechnology
12:40	12:50	STRUCTURAL AND MECHANICAL PROPERTIES OF ADDITIVELY MANUFACTURED AISI 316L AFTER ROTARY SWAGING (Ing. Marek Benč)	15:20	15:30	SYNTHESIS OF PYROLYTIC CARBON BY CHEMICAL VAPOR DEPOSITION WITH INCREASED PRESSURE AND ITS FORMATION INTO SCROLLED CARBON MICROTUBES (Ing. Pavel Czernek)
12:50	13:00	NUMERICAL MODELLING OF NON-ISOTHERMAL MELT FLOW IN THE FIVE-STRAND ASYMETRIC TUNDISH (Ing. Jiří Cupek)	15:30	15:40	SPIN-BASED POLARIZATION CONTROL OF SPINTRONIC TERAHERTZ EMITTERS (Ing. Pierre Koleják)
13:00	13:10	CONSTRUCTION OF A REGRESSION EQUATION TO DETERMINE THE SOLIDUS TEMPERATURE OF 41CR4 STEEL USING THE THERMODYNAMIC DATABASE COMPUTHERM (Ing. Lucie Chudobová)	15:40	15:50	CARBON FROM BIOMASS BAMBOO AND WALNUT SHELL FOR LITHIUM/SULFUR BATTERY (Mgr. Gabriela Mikesková)
13:10	13:20	DETERMINATION OF STEEL LIQUID TEMPERATURE USING FACTSAGE SOFTWARE (Ing. Michal Sniegoň)	15:50	16:00	MORPHOLOGY AND STRUCTURE OF THE CERAMIC MATRIX FOR QUASI SOLID STATE ELECTROLYTES COMPOSITES (Ing. Sajjan Kumar Sathish)
13:20	13:30	Study programme: Thermal Engineering and Fuels in Industry	16:00	16:10	HYDROTHERMAL AND MICROWAVE-ASSISTED SYNTHESIS OF NANO-ZnS: THE INFLUENCE OF THE REACTION PARAMETERS ON THE PHOTOCATALYTIC ACTIVITY (Ing. Julie Smijová)
13:20	13:30	MODELLING OF HEAT LOSS AND ANNUAL ENERGY DEMAND FOR HEATING THE BUILDING (Ing. et Ing. David Rigo)	16:10	16:20	ELLIPSOMETRIC ANALYSIS OF FUNDAMENTAL POLARIZATION OPTICS THROUGH POLARIMETRIC COMPONENTS OF PURITY (Ing. Daniel Vala)
13:30	13:50	Study programme: Chemical Metallurgy	16:20	16:30	EVALUATION OF g-C ₃ N ₄ DEPOSITION TECHNIQUES TO NANOFIBROUS MEMBRANES; PHENOL DEGRADATION KINETICS (Ing. Zuzana Vilamová)
13:30	13:40	APPLICATION OF LEACHED BLAST FURNACE SLUDGE AS HEAT TRANSFER FLUID ADDITIVE (Mgr. Dalibor Novák)	16:30	16:40	Coffee break
13:40	13:50	EXPERIMENTAL AND THEORETICAL STUDY OF ALLOYS BASED ON Fe-C-Cr-Ni IN HIGH TEMPERATURE AREA (Ing. Svetlana Sorokina)	16:40	18:10	Study programme: Material Science and Engineering
13:50	14:00	Coffee break	16:40	16:50	MEASURING ELECTRIC MOTOR CONSUMPTION AS A FUNCTION OF TEMPERATURE (Ing. Marek Beseda)
14:00	14:30	Study programme: Process Engineering	16:50	17:00	FRACTOGRAPHIC ANALYSIS OF A DAMAGED VACUUM PUMP ROTOR (Ing. Kryštof Hradečný)
14:00	14:10	DISTRIBUTION OF ARSENIC IN PARTICLE-SIZE AND MAGNETIC FRACTIONS OF COAL COMBUSTION FLY ASH (Ing. Filip Kovár)	17:00	17:10	LASER PRETREATMENT FOR BONDING A SANDWICH STRUCTURE WITH CNC SUPPORT (Ing. Filip Huvar)
14:10	14:20	PHOTOCATALYTIC DEGRADATION OF POLLUTANTS IN WATER USING G-C ₃ N ₄ IN A COMBINATION WITH CARBONACEOUS MATERIAL (Ing. Aneta Smýkalová)	17:10	17:20	EFFECT OF HEAT TREATMENT ON MECHANICAL PROPERTIES OF NITi ALLOY USED IN BIOMEDICINE (Ing. Michal Kopelent)
14:20	14:30	EVALUATION OF INSECT WASTE BY ANAEROBIC DIGESTION (Ing. Petra Wojnarová)	17:20	17:30	MICROSTRUCTURE CHARACTERIZATION OF DISSIMILAR WELDS P92/HR3C AFTER CREEP RUPTURE TESTS (Ing. Renáta Palupčíková)
14:30	15:10	Study programme: Chemical and Environmental Engineering	17:30	17:40	USE OF AIR COOLING WITH A FIRE EXTINGUISHING DEVICE TO PROTECT CYLINDRICAL BATTERY CELLS 18650 (Ing. Adam Polak)
14:30	14:40	ADVANCED OXIDATION PROCESSES AS PROMISING TECHNOLOGY FOR TREATMENT OF AMMONIA CONTAMINATED AIR FROM LIVESTOCK BUILDINGS (Ing. Alena Kulišťáková)	17:40	17:50	RESEARCH ON THE STRENGTH OF HONEYCOMB SANDWICHES MADE OF ALUMINIUM ALLOYS 2022 (MgA. Petr Sehnoutka, DiS.)
14:40	14:50	NEUTRON ACTIVATION ANALYSIS OF PM ₁₀ FOR AIR QUALITY OF AN INDUSTRIAL REGION IN THE CZECH REPUBLIC (Ing. Barbora Niedobová)	17:50	18:00	EFFECT OF LASER PARAMETERS ON THE SURFACE ROUGHNESS OF EN AW 5754 (Ing. Miroslav Suchánek)
14:50	15:00	HYDROGEN PRODUCTION FROM METHANOL-WATER MIXTURE OVER NiO/TiO ₂ NANORODS STRUCTURE PHOTOCATALYSTS (Ing. Rudolf Ricka)	18:00	18:10	STRESS ANALYSIS OF A CAR'S STEERING KNUCKLE FOR LIFE PREDICTION (Ing. Matěj Šústek)
15:00	15:10	DEVELOPMENT LC-MS/MS METHOD FOR DETERMINATION ANTIEPILEPTICS IN REAL WATER SAMPLES (Ing. Adéla Šlachtová)			