

Wednesday 15/02/2023

8:00 8:15

Opening Ceremony

prof. Ing. Plachá Daniela, Ph.D.
prof. Mgr. Kukutschová Jana, Ph.D.

Presentations T1

Principal investigator

Centre at VSB - TUO

Project title

8:15	8:30	Jiří Cupek	CPIT/FMT	Optimization of Metallurgical Processes Using Numerical Simulations, Laboratory Heats and Dilatometry
8:30	8:45	Jan Bém	CPIT/FS	Development and Optimization of Rehabilitation Devices
8:45	9:00	Nela Freiherrová	CPIT/FAST	Experimental Analysis of the Long-term and Fracture Behavior of Architectural Fabrics Used for Membrane Structures
9:00	9:15	David Schwarz	CPIT/FS	Constitutive Modeling of Aorta
9:15	9:30	Sathish Sajjan Kumar	CNT/FMT	Study of Effective Input Materials for "Quasi-solid state" Li-S Batteries
9:30	9:45	Adéla Šlachtová	IET	LCA Evaluation for Selected Pharmaceuticals and Fuels
9:45	10:00	<i>Coffee Break</i>		
Presentations T2				
10:00	10:15	Renáta Palupčíková	CPIT/FMT	Study of Phase Transformations in Cast Strips GOES
10:15	10:30	Eva Olšovská	CPIT/FMT	Submicron Particles in Human Tissues and Microplastics in Drinking Water
10:30	10:45	Markéta Hrabánková	IT4I/FEI	Development of a Tool for Scientific Data Processing and Visualization in VR with Multi-User Support
10:45	11:00	Michal Molčan	IT4I/FS	Development of Computational Algorithms for Solution of Nonlinear Structural Dynamical Problems with Utilization of ESPRESO Numerical Library
11:00	11:15	Pierre Koleják	IT4I/FMT	Novel Sources of THz Radiation Based on Spintronic Effects
11:30	12:30	<i>Lunch</i>		
Presentations T2				
12:30	12:45	Petra Wojnarová	IET/FMT	Study of Photochemical, Photocatalytic and Membrane Processes with Application in Environmental Technologies
12:45	13:00	Jakub Zágora	CNT/FMT	Development of Antimicrobial Biobased Polymeric Material Using Supercritical Fluid Technology
13:00	13:15	Daniel Vala	CNT/FMT	Photonic Structures and Nanoscale Metasurfaces for Polarization Light Control from Terahertz to Visible Spectral Ranges
13:15	13:30	Tomáš Jastrzembki	VEC/FBI	Risk Management of Alternative Sources Energy of the Near Future
13:30	13:45	Jiří Ryšavý	VEC/FS	Determination of Oxidation Catalysts Characteristics during the Flue Gas Purification
13:45	14:00	Jakub Čespiva	VEC	Gasification Residue Char Utilisation as Mercury Capture Sorbent in Fluid Boiler Flue Gas Flow
14:00	14:15	<i>Coffee Break</i>		
14:15	14:30	Jan Diviš	ENET/HGF	Research and Development of Innovative Equipment for DEM Simulations Calibration and Validation of Particulate Matter in the Field of Mechanical Comminution Processes and Abrasion
14:30	14:45	Václav Peer	ENET/FS	Low-Potential Waste Heat Recovery
14:45	15:00	Adam Verner	ENET/FMT	Study of the Additives Impact on Emissions from the Combustion of Alternative Fuels
15:00	15:15	Michal Šafář	ENET/FMT	Optimization of Decomposition Processes of Major Components of Waste Biomass Ensuring Requirements of Phytotoxicity
15:15	15:30	Ondřej Kabot	ENET/FEI	Partial Discharge Detection in Insulation Systems
15:30	15:45	Conclusion of the presentations		
prof. Ing. Plachá Daniela, Ph.D. prof. Mgr. Kukutschová Jana, Ph.D.				
15:45	16:15	Committee meeting		