

Program

Friday	
8:00	Delegate registration
8:45 - 9:00	Official opening, Dean J. Rosina welcome address
	PLENARY TALKS
9:00 - 9:40	<i>I. N. Mihailescu (Invited Speaker)</i>
P-1	Soft laser transfer of organic and inorganic materials for biomedical applications
9:40 - 10:20	<i>C. Popov (Invited Speaker)</i>
P-2	Bio-properties and applications of ultrananocrystalline diamond films
10:20 - 11:00	<i>J. Musil (Invited Speaker)</i>
P-3	Flexible antibacterial coatings
11:00 - 11:30	Coffee break
	SESSION 1
11:30 - 11:45	<i>M. Jelínek</i>
S-1-1	Perspective thin film technologies and biomaterials
11:45 - 12:00	<i>R. Vopálka</i>
S-1-2	Laser ablation as an alternative pharmacological treatment of cardiac arrhythmia
12:00 - 12:15	<i>T. Kocourek</i>
S-1-3	Biocompatible layers prepared by PLD and hybrid PLD
12:15 - 12:30	<i>H. Studenovská</i>
S-1-4	Enhanced ultrathin nanofibrous membrane for transplantation of retinal pigment epithelial cells
12:30 - 12:45	<i>P. Vaněk</i>
S-1-5	Biocompatible ferroelectric coatings for bone implants
12:45 - 13:00	<i>M. Weigl</i>
S-1-6	Measuring methods of dimensions and shape of biomedical materials
13:00 - 14:00	Lunch
	SESSION 2
14:00 - 14:15	<i>J. Remsa</i>
S-2-1	Characterization techniques for biomaterials physical properties
14:15 - 14:30	<i>V. Březina</i>
S-2-2	Časosběrná mikrokineematografie živých buněk in vitro, jako zdroj informací o biokompatibilitě materiálů pro lékařské aplikace
14:30 - 14:45	<i>J. Urzová</i>
S-2-3	Determining ablation depth using CT imaging

14:45 - 15:00	V. Petráková
S-2-4	Fluorescent nanodiamonds as a sensor for real-time monitoring of intracellular processes
15:00 - 15:15	P. Písařík
S-2-5	Doped DLC coatings for biomedical applications
15:15 - 15:30	V. Petrák
S-2-6	Boron doped diamond with increased specific surface area
15:30 - 15:45	V. Vymětalová
S-2-7	Antibacterial activity of titanium dioxide and Ag-incorporated DLC thin films
15:45 - 16:15	Coffee break
	SESSION 3
16:15 - 16:30	J. Mikšovský
S-3-1	Mechanical properties and wettability of thin films for biomedicine
16:30 - 16:45	V. Socha
S-3-2	Microscope image analysis software for evaluation of the adhesion strength of the biocompatible nano and micro thin layers
16:45 - 17:00	L. Hanáková
S-3-3	The evaluation of the practical adhesion strength of biocompatible thin layers by national and international standards
17:00 - 17:15	A. Ostafińska
S-3-4	TPS/PCL/TiX composites with potential medical applications: morphology and mechanical properties
17:15 - 17:30	M. Nevoralová
S-3-5	Microscopic and micromechanical characterization of Ti-composite based on the PLA/PCL blend for medical applications
17:30 - 17:40	Prizes and Awards, poster session
17:40	Closing ceremony
	Cake, Refreshment
Saturday	
9:00 - 11:00	Excursion - Joint department of Biomedical Engineering FBME CTU and 1 st Faculty of Medicine CUNI at Albertov (PLD, AFM, Contact angle, Thermocamera)