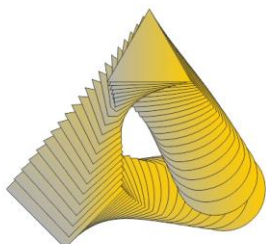


Final Program



LOCAL MECHANICAL PROPERTIES LMP2017

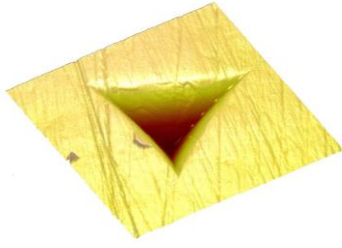
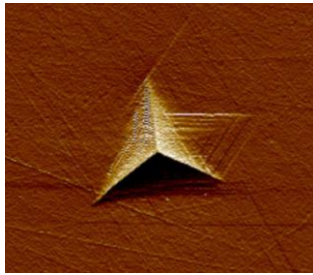
November 6-8, 2017, Košice, Slovakia



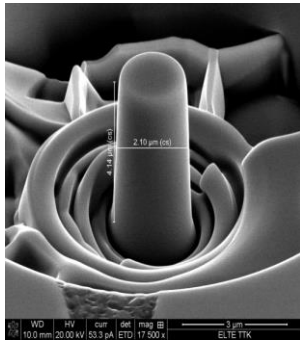
Monday,
Nov. 6, 2017



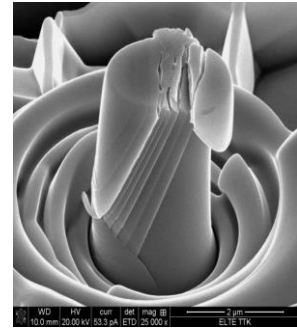
10:00 - 13:00	Registration IMR SAS/PROMATECH Bldg., Watsonova 47A, Košice
13:00 - 13:45	Lunch IMR SAS cafeteria
14:00 - 14:10	Opening ceremony Ground floor, IMR SAS/PROMATECH Bldg., Watsonova 47A, Košice
	Section: Between macro and nano...and modeling
14:10-14:45 <i>Invited lecture</i>	Ján Dusza Low-scale mechanical testing of ceramics
14:45-15:05	Jiří Němeček Fracture Properties of Cement studied by Nanoindentation and FIB
15:05-15:25	Stanislav Seitl Numerical Stress Analysis of the Biaxial Tension-compression Wedge-splitting Test in the Vicinity of the Crack Tip
15:25 - 15:45	František Lofaj FEM of nanoindentation and scratch testing in the hard W-C coating/steel substrate system
15:45 - 16:05	Coffee break
	Section: Advances in nanomechanical testing
16:05-16:40 <i>Invited lecture</i>	Michael Griepentrog Dynamic Instrumented Indentation Test - Application and Standardisation
16:40-17:00 Company presentation	Gaurav Mohanty Pushing the frontiers of nanomechanical testing: In-situ variable temperature and high strain rate tests
17:00-17:20	Jaroslav Lukeš In situ SEM tensile testing of graphene
17:20-17:40	Tamáš Csanádi Nanoindentation derived elastic constants of carbon fibres from a 2D-C/SiC composite
17:40-18:00	Hatsuhiko Usami

	Microhardness and residual stress distribution in shot peened surface
18:00-22:00	Poster Section + Welcome Party 6th floor, IMR SAS/PROMATECH Bldg., Watsonova 47A, Košice
 <p>Tuesday, Nov. 7, 2017</p> 	
	<i>Section: ... Thin films and coatings</i>
9:00 - 9:35 <i>Invited lecture</i>	Jozef Keckes Cross-Sectional Stresses and Microstructure in Thin Films
9:35 - 9:55	Radim Čvrtlík Effect of deposition temperature on physical properties of titanium films on glass
9:55 - 10:15	Jan Tomáščík Mechanical and tribological properties of protective SiCN coatings
10:15 - 10:35	Marek Klich Selected properties of the multi-layered carbon-based coating deposited on 2024 aluminium alloy
10:35 - 10:55	Coffee break
	<i>Section: Nanomechanical testing of different materials..</i>
10:55 - 11:30 <i>Invited lecture</i>	Gaurav Mohanty In-situ microcompression transient plasticity tests for reliable extraction of deformation activation parameters: Creep, stress relaxation and strain rate jump tests
11:30 - 11:50	Miroslav Šlouf Micromechanical properties of UHMWPE's with different molecular weights
11:50 - 12:10	Peter Burik Effect of Different Factors on the Indentation Hardness of Interstitial Free Steel by Depth Sensing Indentation
12:10 - 12:30	Jakub Chamrad A comparative study of stress – strain states in different size skull fixation mini-plates
12:30-12:50	Kamran Saeidi Mechanical performance of 316L fabricated by laser melting under high temperature and sudden tension
12:50-13:00	Conference photo
13:00 – 13:40	Lunch
	<i>Social program</i>
13:45 - 14:15	Transport to US Steel for excursion
14:15 - 16:30	Excursion at US Steel
16:30 - 17:00	Transport to Košice city center
17:00-18:30	Košice old town excursion

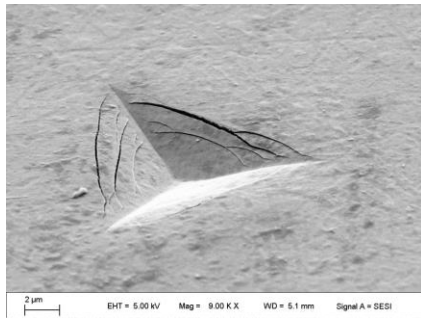
18:30-19:00	Individual transfer to Admiral club (taxi, tram, by foot)
19:00 – >22:00	Social meeting with dinner + Poster evaluation + bowling tournament



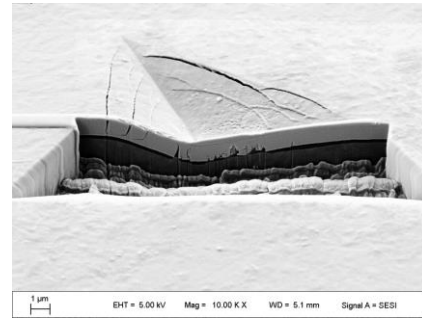
Wednesday,
Nov. 8, 2017



	Section: Nanoindentation and fracture...
9:00 - 9:20	Vilma Buršíková Study of local mechanical properties of aluminide based superalloys
9:20 - 9:40 Company presentation	Jaroslav Pól Selected applications of indentation, scratch and tribological testing in material testing
9:40 - 10:00 Company presentation	Tomáš Svojanovský Measuring of Local Deformations and Crack Length Using DIC Software Mercury RT
10:00 - 10:20	Petr Miarka A Comparison of the Fatigue Crack Propagation Rates between S355 J0 and S355 J2 Steel Grades
10:20 - 10:40	Jacek Karczmar The local shear strength of hybrid polymer-metal joints produced during injection moulding process
10:40 – 11:00	Coffee Break
	Section: Company presentations
11:00-11:20	Tomáš Kandra Embraco company profile
11:20-11:40	Alexander Gába HR-STEM Hitachi Regulus
11:40 – 12:50	Excursion at IMR SAS/PROMATECH laboratories
12:50 - 13:00	Closing ceremony
13:00 – 13:45	Lunch & departure



POSTERS



1.	Ľubomír Ambriško, Local mechanical properties of zinc-iron coated steel sheets by depth-sensing indentation
2.	Aleš Jáger, Microstructure and micromechanical properties of Mg tubes prepared by laser dieless drawing
3.	Jaroslav Čech, Effect of crystallographic orientation on nanoindentation response of Fe ₃ Si single-crystals
4.	Zbyněk Keršner, to be announced
5.	Petr Haušild, Nanoindentation characterization of mechanically alloyed Fe-Al-Si powders
6.	Jiří Buršík, Local mechanical properties of skutterudites with addition of metallic borides
7.	Jan Maňák, Microbending experiments on pure magnesium with non-basal slip orientation
8.	Zdeněk Česánek, Degradation of HP/HVOF Sprayed Hastelloy C-276 Local Mechanical Properties after Exposure to High Temperature Corrosion
9.	Jan Schubert, Mechanical properties of HVOF sprayed CrC-NiCr coating exposed to hot corrosion environment
10.	Lucie Malíková, Multi-parameter fracture mechanics: Crack approaching a bi-material interface
11.	Radek Šlesinger, Simulation of nanoindentations on thin films using the Material Point Method
12.	Anna Charvátová Campbell, Analysis of loading curves on thin films using Hertzian models
13.	Zdeněk Majer, Simulation model of piezoelectric vibration energy harvesters
14.	Vojtěch Mařák, Study of Alumina and Alumina-Silicon Carbide Layered Composites Sintered by SPS
15.	Martina Halasová, Effect of pyrolysis temperature on mechanical response in partially pyrolyzed polysiloxanes
16.	Jana Gamcová, Comparison study of internal stress measured by diffraction mapping and calculation using FEM
17.	A. Kovalčíková,

	Tribological properties of B ₄ C/GPLs ceramic composites.
18.	Ján Balko, Tribological and mechanical properties of SiC based cermets
19.	Pavol Zubko, to be announced
20.	Lukáš Václavek, Physical characterization of hafnium oxide thin films
21.	Pavel Doležal, Characterization of brittle phase in magnesium based materials prepared by powder metallurgy
22.	