

# Workshop Program

May 10, 2006			
16:00-19:00	Registration		
19:00-21:00	Welcome Party		
May 11, 2006			
Time	Room A	Room B	Room C
08:00-9:00	Registration		
09:00-9:30	Workshop opening addresses		
	Grabec, Chairman of the Organizing Committee		
	Zupan, Minister for Higher Education, Science and Technology of Slovenia		
	Kuzman, Dean of the Faculty of Mechanical Engineering, University of Ljubljana		
9:30-10:30	Plenary session 1 Chairman - Grabec		
	Stepan: <i>Can nonlinear dynamics contribute to chatter suppression?</i>		
	Orbanič: <i>Research in Slovenian Automotive industry</i>		
10:30-10:50	Coffee Break / Best Practice Corner		
10:50-12:50	Parallel Session A1 - Stability Chairman - Stepan	Parallel Session B1 - Drilling Chairman - Julean	Parallel Session C1 - Process optimization Chairman - Jawahir
	Özlü, Budak: <i>Analytical prediction of stability limit in turning operations</i>	Jrad, Devillez, Dudzinski: <i>Thermomechanical approach of drilling based on a CAD definition</i>	Herrmann-Praturlon, Gallino, Durante, Comoglio: <i>High performance cutting in automotive and aerospace application</i>
	Szalai, Mann, Stépán: <i>Period-two and quasi-periodic vibrations of high-speed milling</i>	Claudin, Poulachon, Lambertin, Janosch, Vecchi, Gigé: <i>Adaptation of drill geometry with cutting forces, tool-life, and chip formation mechanisms</i>	Makarov, Chigodaev, Tokarev: <i>Optimization of cutting process at the high-speed broaching of gas-turbine engine parts</i>
	Insperger, Mann, Edes, Stépán: <i>The effect of runout on the chatter frequencies of milling processes</i>	Klocke, Lung, Gerschwiler, Abouridouane, Risse: <i>3D modeling and scaling effects in drilling</i>	Hagenah, Kohlbauer: <i>Application of fuzzy logic for process design in sheet metal hydroforming</i>
	Gonzalo, Peigné, González: <i>Thin-walled features high speed machining simulation</i>	Lugscheider, Bobzin, Nickel, Hurevich: <i>Theoretical study of the influence of a PVD coating on the stability of the micro drilling process</i>	Sánchez, Rubio, Sebastián, Cano, Marcos: <i>High performance cutting in automotive and aerospace application</i>
	Corduan, Costes, Lapujoulade, Larue: <i>Experimental approach of milling stability of thin walled parts, comparison with time domain simulation</i>	Schwenck, Hänle, Garrn, Hammer, Gsänger, Stolz: <i>Innovative cutting tools for machining powertrain materials</i>	Diéguez, Ares, Sebastián, Marcos: <i>Factors of influence in the simultaneous optimization of the descriptive variables of the electro discharge machining</i>
	Enk, Surmann: <i>Analysis of the cutting tool vibration while milling with changing engagement conditions</i>		Todorov, Romanov, Kamberov, Koychev: <i>Direct fastening components design and reliability parameters research</i>
12:50-14:00	Lunch		
14:00-16:00	Parallel Session A2 - Grinding Chairman - Leopold	Parallel Session B2 - Diagnostics Chairman - Govekar	Parallel Session C2 - Miscellaneous Chairman - Grabec
	Sakakura, Tsukamoto, Fujiwara, Inasaki: <i>3D simulation of surface generation in grinding</i>	Crolet, Lambert-Campagne, Costes, Barlier, Bissey-Breton: <i>On the vibrations in superfinish turning operation</i>	Pienkowski, Krzyzanowski, Maczka: <i>Modeling energy utilization during machining operations</i> SECTION: Simulation
	Salonitis, Tsoukantas, Stavropoulos, Stourmaras, Chondros, Chryssolouris: <i>Process forces modeling in grind-hardening</i>	Ritou, Garnier, Furet, Hascoet: <i>Estimation of cutter eccentricity for tool condition monitoring</i>	Ullah, Harib, Aldajah: <i>On the roughness profile modeling using Q-sequence</i> SECTION: Diagnostics
	Julean: <i>A method for assessment of steels grindability</i>	Jantunen: <i>Indirect monitoring and diagnosis of drill wear</i>	Emami, Arezo: <i>A virtual test bed implementation using the precision model of feed-drive system for the verification of command generators</i> SECTION: Simulation
	Globočki-Lakić, Nedić, Ivković, Golubović-Bugarški, Čiča: <i>Possibility of determination of material machinability over tribological parameters by use of tribometer "Block on disk"</i>	Gradišek, Friedrich, Govekar, Grabec: <i>Possibilities for analysis of noisy time series data in machining</i>	Kokalj, Mužič, Grabec, Govekar: <i>Modelling of laser pendant droplet formation and determination of a laser pulse</i>
	Torres, Duduch, Jasinevicius: <i>A study of brittle materials grinding</i>	Golubović-Bugarški, Blagojević, Globočki-Lakić: <i>Vibration measurement as a machine health indicator</i>	Rozman, Govekar, Grabec: <i>Modeling of plasma shielding in laser material processing</i>
		Kuzinovski, Trajčevski, Fita, Tomov: <i>Monitoring system in the experimental investigations of the temperature in the cutting process by machining with turning</i>	
16:00-16:30	Coffee Break / Best Practice Corner		
16:30-18:30	Excursion (Bled Island)		
18:30-23:00	Evening Program (Bled Castle + Dinner)		

May 12, 2006		
Time	Room A	Room B
09:00-10:00	<b>Plenary Session 2</b> <b>Chairman - Moisan</b>	
	Grabec: <i>Synergetics of Cutting Processes</i>	
	Marusich: <i>Selected Topics on Modeling Machining</i>	
10:00-11:00	<b>Parallel Session A3 - Burr formation</b> <b>Chairman - Poulachon</b>	<b>Parallel Session B3 - Tribology</b> <b>Chairman - M'Saubi</b>
	Stoll, Leopold, Neugebauer: <i>Hybrid methods for analyzing burr formation in 2D-orthogonal cutting</i>	Dobrzański, Mikula, Golombek, Pakula, Kopač, Soković: <i>Functional properties of PVD and CVD coated tool ceramics</i>
	Aurich, Sudermann, Bil: <i>3D finite element modeling of burr formation in grinding</i>	Maňková, Beno, Markova, Melcher: <i>Experimental modelling of cutting force, tool-wear and surface roughness when turning with ceramic inserts</i>
	Stoll, Ahmed, Mitrofanov, Silberschmidt, Leopold: <i>Influence of ultrasonically assisted cutting on burr formation</i>	Mehmedović, Ekinović, Dolinšek, Šarić: <i>Investigation of cutting tool influences on white layer formation for a turning process of hardened 16MnCr5 steel</i>
11:00-11:20	<b>Coffee Break / Best Practice Corner</b>	
11:20-13:00	<b>Parallel Session A4 - Tool wear + residual stress</b> <b>Chairman - Micari</b>	<b>Parallel Session B4 - Simulation</b> <b>Chairman - Zatarain</b>
	Umbrello, Outeiro, M'Saubi: <i>Modelling and validation of the residual stresses induced in machining AISI 316L steel</i>	Potočník, Grabec: <i>Simulation of cutting stabilized by nonlinear model predictive control</i>
	Outeiro, Ee, Dillon, Wanigarathne, Jawahir: <i>Some observations on comparing the modelled and measured residual stresses on the machined surface induced by orthogonal cutting of AISI 316L steel</i>	Sims, Turner, Ridgway: <i>A model of milling dynamics using Matlab and Simulink</i>
	Filice, Micari, Umbrello: <i>Wear modeling in orthogonal cutting using coated tools</i>	Schermann, Marsolek, Schmidt, Fleischer: <i>Aspects of the simulation of a cutting process with ABAQUS/Explicit including the interaction between the cutting process and the dynamic behavior of the machine tool</i>
	Lorentzon, Järnsträt: <i>Tool wear geometry updating in Inconel 718 turning simulations</i>	Brecher, Witt: <i>Simulation of machine process interaction with flexible multi-body simulation</i>
	Klocke, Frank: <i>Simulation of tool wear in hard turning</i>	Tunc, Budak, Ozturk: <i>Optimization of 5-axis milling processes using process models</i>
		Surmann: <i>Geometric model of the surface structure resulting from the dynamic milling process</i>
13:00-14:30	<b>Lunch</b>	
14:30-16:10	<b>Parallel Session A5 - Chip formation</b> <b>Chairman - Outeiro</b>	<b>Parallel Session B5 - Cutting force modeling</b> <b>Chairman - Budak</b>
	Arrazola, Pujana, Llanos, Villar, Ugarte, Aguirre, Gallego, Le Maître: <i>Finite element modeling of oblique cutting</i>	Fortunato, Mantega, Donati, Tani: <i>Milling force prediction by means of analytical model and 3D FEM simulations</i>
	Habak, Lebrun, Huneau, Germain, Robert: <i>Effect of carbides and cutting parameters on chip morphology and cutting temperature during orthogonal hard turning of 100Cr6 bearing steel with a cBN cutting tool</i>	Okafor, Aramalla: <i>Modeling cutting forces in high speed end-milling of titanium alloys using finite element analysis and mechanistic model</i>
	Umer, Xie, Wang: <i>Modeling the effect of tool edge preparation by ALE method</i>	Uriarte, Zatarain, Bueno, Gonzalo, Lopez de Lacalle, Lamikiz: <i>Identification of the specific cutting force coefficients for the mechanistic modelling of micro milling</i>
	Cotterell, Byrne: <i>Dynamics of chip formation during orthogonal cutting of titanium alloy Ti-Al6-V4</i>	Denkena, Reichstein, Köhler: <i>Influence of the captured border on cutting forces in turning processes</i>
		Long, Wang, Zhao, Wang: <i>Analysis on nonlinear cutting forces in high-speed face-milling of difficult-to-machining materials</i>
16:10-16:30	<b>Coffee Break / Best Practice Corner</b>	
16:30-17:00	<b>Final Plenary Session</b> <b>Chairman - Jawahir</b>	