

TENTATIVE SCHEDULE OF ACTIVITIES AND PRESENTATIONS

1ST INTERNATIONAL SYMPOSIUM ON MACHINES, MECHANICS AND MECHATRONICS - CURRENT TRENDS

Serbia, University of Belgrade, Faculty of Mechanical Engineering on July 1-2. 2014.

	Tuesday, 1.7	Wednesday, 2.7
9:00-9:30	Registration	
9:30-10:00	Opening Session	
10:00 -12:15	Plenary Lecture and Session I	Session IV
12:15-14:00	Lunch Break	Closure, Lunch and BelgradeTour
14:00-16:00	Session II	
16:00-16:30	Coffee Break	
16:30-18:30	Session III	
19:00-20:00		
20:00	Banquet dinner	

Tuesday, July 1st, Room 211, floor 2		
9-9:30	Registration	
9:30-10:00	Opening Session <u>Co-Chairs:</u> Aleksandar Veg, Wei Li, Nataša Trišović	
10:00-10.30	Plenary Lecture	
	Professor Pol Spanos, Rice University, Houston, USA	TRADITIONAL AND EMERGING TECHNIQUES FOR PRACTICAL RANDOM VIBRATION ANALYSES
10:45-12.15	Session I, Room 211 <u>Co-Chairs:</u> Tihomir Latinović, Dragan Milosavljević <u>Moderator:</u> Dražan Kozak	
	Milan Petrović	AERODYNAMIC DESIGN OF AIR COOLED GAS TURBINES
	Stefan Segla	STANDARDIZATION OF MECHANISM AND MACHINE SCIENCE TERMINOLOGY
	Stipica Novoselac, Dražan Kozak, Todor Ergić, Darko Damjanović	FATIGUE OF SHAFT FLANGE BOLTED JOINTS UNDER PRELOAD FORCE AND DYNAMIC RESPONSE
	Dragan Milosavljević Gordana Bogdanović Ljiljana Veljović Aleksandar Radaković	DISPERSION RELATION FOR SYMMETRIC DEFORMATION IN ELASTIC PLATES REINFORCED BY ONE FAMILY OF STRONG FIBRES
	Zeljko V. Despotović Milan Lečić Milan Jović	VIBRATION CONTROL OF RESONANT VIBRATORY FEEDERS WITH ELECTROMAGNETIC EXCITATION
	Maja Čavić, Milan Kostić, Miodrag Zlokolica	MECHANISM FOR AN ERGONOMIC CHAIR
12:15-14:00	Lunch Break, Restaurant, floor 5	
14:00-16.00	Session II, Room 211 <u>Co-Chairs:</u> Valentina Golubović - Bugarski, Maja Čavić <u>Moderator:</u> Stefan Segla	
	Jelena M. Djoković, Ružica R. Nikolić, Josef Vičan, Dalibor Đenadić	DYNAMIC GROWTH OF AN INTERFACIAL CRACK BETWEEN THE TWO ANISOTROPIC MATERIALS
	Ivan Milanković Nikola Mijailović Aleksandar Peulić Dalibor Nikolic Igor Koncar Themis Exarchos Oberdan Parodi Nenad Filipović	SOFTWARE AND HARDWARE SYSTEMS FOR ABDOMINAL AORTIC ANEURYSM MECHANICAL PROPERTIES INVESTIGATION
	Marinko Ugrčić Stevan Maksimović Dragi Stamenković	FINITE ELEMENT MODELING OF WING BIRD STRIKE

	Daniela Ristić	GEAR TOOTH ROOT STRESS AND FILLET RADII DEPENDENCE
	Radoslav Radulović Dragomir Zeković Mihailo Lazarević Bojan Jeremić	ANALYSIS OF MINIMUM REQUIRED SLIDING FRICTION COEFFICIENT IN THE THE BRACHISTOCHRONIC MOTION OF A MECHANICAL SYSTEM WITH NONLINEAR NONHOLONOMIC CONSTRAINTS
	Mladen Regodic, Bojan Arandjelovic, Emil Veg, Luka Andrejevic Aleksandar Veg	INVENTION AND DEVELOPMENT OF OMEGA DEFORMETER
	Tihomir Latinovic Milan Latinovic	INTELLIGENT CONTROL LEGO NXT 2.0 MOBILEROBOT WITH NONHOLONOMIC RESTRICTIONS, ACCORDING TO PREVIOUSLY BEEN DRAWNING TRAJECTORY IN UNDEFINED ENVIRONMENT
	Emil Veg Goran Šiniković Raša Andrejević Mladen Regodić Aleksandar Veg	CROSS CORRELATED MODAL ANALYSIS AS A POWER TOOL FOR CIVIL STRUCTURES INTEGRITY IMPROVEMENT
	Marcelo A. Silva Jasbir S. Arora Reyolando M. L. R. F. Brasil	COMPUTATION OF EFFECTIVE BENDING STIFFNESS OF RC TELECOMMUNICATION TOWERS BASED ON EXPERIMENTAL DATA
16:00-16:30	Coffee Break, Room 210, floor 2	
16:30-18:45	Session III, Room 211 – Special Session <u>Co-Chairs:</u> Livija Cvetičanin, Katica Stevanović - Hedrih <u>Moderator:</u> Pol Spanos	
	Wei Li Lincong Chen Natasa Trisovic	FIRST-PASSAGE OF STOCHASTICALLY DYNAMICAL SYSTEM WITH FRACTIONAL DERIVATIVE AND POWER-FORM RESTORING FORCE
	Katica Stevanović Hedrih	ENERGY ANALYSIS OF DYNAMICS OF A MULTI-DEFORMABLE BODY SYSTEM WITH FRACTIONAL ORDER DISCRETE CONTINUUM LAYERS
	Livija Cvetičanin Ištvan Biro	MODELING OF IMPACT OF A TENNIS BALL WITH COURT: AN OVERVIEW
	Aleksandar Cvetković	COMPUTATION OF RANDOM OSCILLATIONS ON GPU
	Ines Grozdanović	THE EFFECTS OF NOISE AND INTERNAL DELAY ON COHERENT OSCILLATIONS IN TWO STOSCHASTICALLY PERTURBED DELAYED DYNAMICAL SYSTEMS
	Julijana Simonović	SYNCHRONIZATION IN NON-LINEAR CHAINS OF MATERIAL PARTICLES
	Valentina Golubović- Bugarski, Aleksandar Borković	CORRELATION BETWEEN STRUCTURAL DAMAGE AND DYNAMIC RESPONSE OF THE STRUCTURE
	Viktor Gavriloski Jovana Jovanova Goce Tasevski	AIR SPRING DYNAMIC MODEL WITH FREQUENCY DEPENDENT CHARACTERISTIC

	Marko Rusov Mihailo Lazarević Radoslav Radulović Boris Jeremić	TRAJECTORY AND BASIC MULTYBODY DYNAMIC ANALYSIS FOR FIVE-AXIS CNC MACHINES
	Isak Karabegović, Bekir Novkinić, Ermin Husak	MATHEMATICAL MODELING AND SIMULATION OF TOOL HOLDER ACCELERATION DURING TURNING PROCESS WITH EXPERIMENT APPLYING
20:00	Banquet dinner	

Wednesday, 2.7, Room 211, floor 2		
10:00-12.15	Session IV, Room 211 <u>Co-Chairs:</u> Nemanja Zorić, Junfeng Zhao <u>Moderator:</u> Viktor Gavriloski	
	Petar Smiljanić Aleksandar Sedmak Emina Džindo Jasmina Lozanović Šajić	INVESTIGATION OF HEAT-AFFECTED ZONE BY SIMULATION AND IN WELD JOINTS
	Ivan Danilov Petar Petrović	VISUAL FEEDBACK IN ROBOTIC WELDING BASED ON STRUCTURED LIGHT TRIANGULATION
	Miloš Živanović	CONDITIONS FOR DYNAMIC BALANCE OF A RIGID BODY WITH HEAVY FOOT
	Jovana Jovanova Viktor Gavriloski Marjan Djidrov	MODEL BASED VIBRATION CONTROL OF FLEXIBLE BEAM
	Zorana Jeli	EXAMINATION OF THE 3D MODEL OF SATELITE ANTENNA DISH- FLUID FLOW AIR ANALYSIS
	Marjan Djidrov Viktor Gavriloski Goce Tasevski	VIBRATION BASED DAMAGE DETECTION IN MECHANICAL STRUCTURE USING PIEZOELECTRIC TRANSDUCER
	Nikola Lukić Petar Petrović	ACTIVE COMPLIANCE CONTROL OF KINEMATICALLY REDUNDANT ANTHROPOMORPHIC ROBOT ARM WITH SOFT JOINTS
	Mića Jovanović Aleksandar Simonović Slobodan Stupar Nemanja Zorić N.S. Lukić Wei Li Ana Petrović	EXPERIMENTAL INVESTIGATION OF SPILLOVER EFFECT IN SYSTEM OF ACTIVE VIBRATION CONTROL SYSTEM
	Vereš Miroslav Krajčovič Adam Nemčeková Miroslava	ANALYSIS OF THE HCR INTERNAL GEARING AGAINST WARM SCUFFING DAMAGE
	Biljana Scepanović Olga Mijušković Ljiljana Žugić	DIFFERENT METHODS IN THE ANALYSIS OF ECCENTRICALLY PATCH LOADED STEEL I-GIRDERS
12:15	Closure, Lunch and Belgrade Tour	