

EXPERIMENTÁLNÍ ANALÝZA NAPĚTÍ 2008

46. mezinárodní konference

2.-5. června 2008, Horní Bečva, Česká republika



Katedra pružnosti a pevnosti,
Vysoká škola báňská - Technická univerzita Ostrava
&
Česká společnost pro mechaniku

Program konference

Pondělí 2.6.2008	
14:00	Registrace účastníků
18:00	Večeře
20:00	Neformální setkání účastníků

Program konference EAN 2008 – úterý 3.6.2008	
06:30	Rozevička
07:00	Snídaně
09:00	Zahájení konference
	Chairman: prof. Ing. Stanislav Holý, CSc.
09:15	RŮŽIČKA, M.: Fatigue Tests of Notched Specimens - Models and Experiment
09:30	TREBUŇA, F.: Using of Methods of Experimental Stress Analysis for Determination of Residual Lifespan of Boilers
09:45	KOPECKI, H.: Experimental-Numerical Analysis of Rectangular Plate With Cut-Out in the Range of Elastic – Plastic Deformation
10:00	MELCER, J.: Experimental Investigation of Tension Clamps
10:15	VAVRO, J.: An Analysis of The Load Exerted on a Bearing-Type Transferring Fixed on the Frame at the Top or at the Bottom
10:30	MACURA, P.: Education of Experimental Stress Analysis Methods at VŠB-TU Ostrava
10:45	Občerstvení
11:15	Přednášky sponzorských firem
12:00	Oběd
	Sekce A
	Chairman: prof. Ing. František Plánička, CSc
13:30	BOHDAN, P.: Residual Stress Measurement Using Ring Core Method
13:45	DRAHOKOUPIL, J.: Microstress and X-ray Diffraction
14:00	GANEV, N.: Diffraction Diagnostics of Surface Residual Stress Distribution on Guide Gibs
14:15	KOLARÍK, K.: Investigation of Macroscopic Residual Stress Distribution after Progressive Machining of Tool Steels
14:30	MOŠČAK, P.: Comparison of Results Receives by Hole Drilling Methods for Determination of Residual Stresses
14:45	PALA, Z.: Macroscopic Residual Stresses in Steels Ground under Various Conditions of Heat Removal
15:00	Občerstvení
	Chairman: doc. ing. Nikolaj Ganev, CSc
15:30	ŠVANTNER, M.: Possibilities of Residual Stress Measurement in Different Materials by the High-Speed Hole Drilling Method
15:45	VÍTEK, K.: Stress State Identification by Numerical Simulation of the Hole Drilling Principle – Part A
16:00	VÍTEK, K.: Stress State Identification by Numerical Simulation of the Hole Drilling Principle – Part B
16:15	GOSMANOVÁ, G.: Influence of Hydration on the Characteristics of Zirconium Alloys Oxide Layers
16:30	PAZDERA, L.: Nonlinear Acoustic Methods with Help of Time Frequency Analyses Determined Structure Quality
	Sekce B
	Chairman: prof. Ing. Ján Vavro, Ph.D.
13:30	KOUDELKA, P.: Physical Experiments with Granular Materials under Different Gravity
13:45	KRATĚNA, J.: Damages of Facade Panels – Theory and Experimental Verification
14:00	NĚMEČEK, J.: Nanoindentation of Cement Paste
14:15	FORSTOVÁ, K.: Measurement of Delayed Deformations after Nanoindentation
14:30	PLACHÝ, T.: Damping Monitoring of Concrete Elements Damaged by Static and Dynamic Load
14:45	POLÁK, M.: The Spatial Components Evaluation Procedure of Thermal Actions on the Prestressed Concrete Bridge
15:00	Občerstvení
	Chairman: prof. Ing. Jozef Melcer, DrSc.
15:30	SOVJÁK, R.: Experimental and Numerical Analysis of Concrete Girder with Pre-Stressed GFRP Reinforcement
15:45	ZATLOUKAL, J.: Footbridge Across Litavka River, Beroun. Design Based on Vibration Eigenfrequencies and Eigenmodes
16:00	KOPECKI, T.: Nonlinear Numerical Analysis Of Bead Stiffened Composite Plates Subjected To Shearing in the Light of Experimental Results
16:15	ŽÍTT, P.: Tension in RC Ribbed Floor, Experiment - Analysis
16:30	KUZMA, J.: Requirements for the Results of a Geotechnical Survey Needed to Foundation Design of Complicated Structures

16:45	SMUTNÝ, J.: Stress Analysis in the Railway Substructure	SUMEC, J.: Comparison of the Numerical Analysis Results and the Geotechnical Monitoring Results of the Pump Station in Jaslovské Bohunice
17:00	SOCHOR, M.: Composite Material Based on Aramid Fibers and Polysiloxane Matrix Modified by Hydroxyapatite Nanoparticles	POLACH, P.: Modified Approach to Computer Simulations of the Coal Wagon Laboratory Kinematic Excitation
17:15	Schůze celostátního výboru EAN	
18:30 21:00	Večeře - grilování	

Program konference EAN 2008 – středa 4.6.2008		
06:30	Rozcvička	
07:00	Snídaně	
	Sekce A	Sekce B
	Ch.: prof. RNDr. Miroslav Hrabovský, DrSc.	Ch.: prof. Ing. František Trebuňa, Dr.h.c., CSc.
08:30	BAKUNOWICZ, J.: The Polycarbonate as a Modelling Material in Photoelasticity	NEDOMOVÁ, Š.: Fracture of the Eggshell under Impact
08:45	BAKUNOWICZ, J.: An Experimental Investigation of Bead Stiffened Composite Panels Subjected to Shearing in the Range of Post Buckling State	DVOŘÁKOVÁ, P.: The Impulse Response Method for Measuring the Overall Firmness of Fruit
09:00	PECH, M.: New Shape Measurement Method of Concave Mirrors on Digital Processing of Hartmann Test Principel	ÉCSI, L.: Constitutive Equation with Internal Damping for Materials under Dynamic and Cyclic Loadings
09:15	POCHMON, M.: Construction Modification of Data-Projector for Optical 3D Measurement	ÉLESZTÓS, P.: Temperature Field Solution Analysis of Cylindrical Particles in Co-Current Contact with Fluid Medium
09:30	VAŠKOVÁ, I.: Noncontact Measurement of Moving Object Velocity by Using Speckle Pattern Correlation	FORMÁNEK, J.: Comparing Experimental Measurement at Machine and of its Model with Simulation in CAD
09:45	HIKLOVÁ, H.: Contact Profilometer Surface Mapping	KEJVAL, J.: Simulation Models of Bonded Joints and Their Experimental Validation
10:00	Občerstvení	
	Chairman: Ing. Aleš Lufinka	Chairman: prof. Ing. František Šimčák, CSc.
10:30	CHMELÍČKOVÁ, H.: Steel Surface Laser Melting Parameters Optimization	FRANTA, L.: Simulation of Knee Joint Dynamics and Kinematics under Realistic Conditions
10:45	IVANKA, J.: Tolerance Requirements for Positioning Mechanism for Measuring on Cylindrical Area	PETRÍKOVÁ, I.: Measurement of Friction and Damping Properties of Rubber
11:00	JANDEJSEK, I.: Material Characterization Using Digital Image Correlation	ZACHARZEWSKI, J.: Crack Propagation in the Tension Plate Made from Different Kind of Materials
11:15	MANDÁT, D.: Roughness Measurement by Means of Optical Methods	BLEKTA, J.: Some Problems of Car Seats Measurement on Testing Board with Six Degrees of Freedom
11:30	LANG, V.: Laboratory for the Experimental Research of Thermo-Mechanical Instabilities of Disc and Drum Brakes	ČEŠPIRO, Z.: Measurement of Industrial Disc Brake on Automatic Controlled Test Stand
11:45	LITOŠ, P.: The System for the Measurement of Thermo-Mechanical Instabilities of Disc Brakes	DYNYBYL, V.: Development of Testing Equipment of Monitoring Thermal Condition of Preloaded Tapered Roller Bearings with Independent Cooling

12:00	Oběd
13:00	Kulturně poznávací akce
19:00 23:00	Společenský večer

Program konference EAN 2008 – čtvrtek 5.6.2008	
06:30	Rozcvička
07:00	Snídaně
	Chairman: prof. Ing. Jan Fuxa, CSc.
08:30	ADAMČÍKOVÁ, A.: Numerical and Experimental Analysis of Cooling Part in Quenching Oil Isomax 166
08:45	TREBUŇA, F.: Determination of Reasons of Permanent Deformation Reasons on Bottom Shell Part of Container and Suggestion of Measures for its Further Operation
09:00	TREBUŇA, F.: Assessment of Ventilator Failure on Exhausting of Converter
09:15	TREBUŇA, F.: Ensurance of Casting Pedestal Operation on the Base of Results Gained by the Methods of Experimental Mechanics
09:30	KONEČNÝ, P.: Laboratory Measurement of the Ultrasonic Wave Velocity in Triaxial Conditions
09:45	NOVOSAD, M.: Verification of the Fatigue Strength of Railway Axles in Accordance with Standards EN
10:00	Občerstvení
	Chairman: prof. Ing. Jiří Lenert, CSc.
10:15	FUXA, J.: Static Strength Criterion Fit for Ductile Material
10:30	FOJTÍK F.: Combined Loading of the Specimens and Realized Experiment
10:45	FRYDRÝŠEK, K.: Solution of Hard Rock Disintegration Process
11:00	HALAMA, R.: Numerical and Experimental Analysis of Residual Stresses Induced by Contact Loading
11:15	KAŇÁK, J.: Tuition of Experimental Mechanics at the Department of Mechanics
11:30	SKOČOVSKÝ, T.: A Non-Contact Real-Time Strain Measurement for Short Uniaxial Cyclic Test of Steel by Digital Image Correlation Method
11:45	ROJÍČEK, J.: Identification of Material Parameters by FEM
12:00	Závěr konference
	Oběd