

Final schedule of IN-TECH Conference 2011

Main Hall, 1. September 2011.		
9:20 - 9:40	Opening speech	Z. Car J. Kudláček J. Suchánek M. Turňa
Invited lectures		
9:20 - 9:40	R.A. Varin, L. Zbroniec and M. Jang	Nanomaterials for Solid State Hydrogen Storage: Synthesis and Properties
9:40 - 10:00	A. Albers, S. G. Kelemen and W. Burger	Acoustic emission analysis for dry friction and wear measurement

September 1st 2011.

Hall A, 01. September 2011		
10:00 - 10:15	M. Andrich, W. Hufenbach, K. Kunze, J. Bijwe, A. Leson, M. Leonhardt, H.-J. Scheibe	Characterization of the tribological behaviour of carbon fibre reinforced epoxy composites in contact with a super hard carbon layer
10:15 - 10:30	C. Dumitrescu, D. Răducanu, V.D. Cojocaru, T. Glorinat, M. Gordin and A. Vulcan	Texture analysis in a Ti-25Ta-25Nb alloy
10:30 - 10:45	V.D. Cojocaru, D. Raducanu, I. Cincea, I. Dan, M. Butu and C. Rusu-Trisca	Mechanical properties evaluation for a Ti-Ta-Zr biocompatible alloy
10:45 - 11:00	V.D. Cojocaru, D. Raducanu, I. Cincea and N. Scarisoreanu	Ti-Ta-Nb ultra thin - ultra strength strips processed by SPD
11:00 - 11:15	D. Schmidt and G. Lange	New function-optimized hybrid material of aluminium foam and polymer
11:15 - 11:30	T. Pepelnjak, T. Pirh, K. Kuzman	Determination of Forming Properties for Tubular Specimens
11:30 - 11:45	N. A. Nader and J. E. Talia	Crack Propagation Model of Scratched Samples of Al 2024-T3 Clad
11:45 - 12:00	Pause	
12:00 - 12:15	M. Kršulja, G. Cukor and Z. Car	Simulation of Product Logistic, Investigation of Facility Layout Capabilities

12:15 - 12:30	L. Šikulec, H. Radelja, M. Kršulja and Z. Car	Comparison in Production Planning of the Classical Method and RL Advanced Algorithms
12:30 - 12:45	A. Alam and M. Salim	Framework of Supply Chain Management Information System vis-a-vis Quality Management-A Study
12:45 - 13:00	S. Lee, W. Bae, S. Park and Y. Jung	Development of Gap Analysis Program for Assembly of Large Number of Parts
13:00 - 14:00	Lunch	
14:00 - 14:15	V. Alfieri, F. Cardaropoli, F. Caiazza and V. Sergi	Effect of defocusing on porosity content evolution in aluminum alloy 2024 welding by Yb-YAG disk laser
14:15 - 14:30	N. Siva Shanmugam, G. Buvanashakaran, K. Sankaranarayanan and S. Malarvizhi	Prediction of weld bead geometry for Laser spot welding of AISI 304 Stainless steel sheet using Finite element analysis
14:30 - 14:45	Y. Javadi	Influence of welding sequence on welding distortions in multi-pass pipe welding
14:45 - 15:00	S. Vendan Arungalai , s. Manoharan, C. Nagamani	Development of electrical circuit model for MIAB welding process
15:00 - 15:15	A.R. Bahman and Y. Javadi	Influence of weld-passes arrangement on angular distortion in plates
15:15 - 15:30	M. Rafiei and Y. Javadi	Effect of welding reinforcement on welding distortion in stainless steel plates
15:30 - 15:45	J. Suchánek	Abrasive wear of heat treated chromium ledeburitic steels
15:45 - 16:00	Y. Javadi and A.R. Bahman	Residual Stress and Angular Shrinkage Analysis of Two Parallel Weld Lines in Stainless Steel Plate
16:00 - 16:30	Pause	
16:30 - 16:45	I. Sasse, L. Schleuß, R. Ossenbrink and V. Michailov V.	Cutting of structured sheet metals with high power fiber laser
16:46 - 17:00	I. G. Simu and N. Filip	Precision harvesting methods using guidance devices equipped with laser sensors
17:00 - 17:15	J. Novák-Marcinčin, L. Nováková-Marcinčinová and M. Janák	Realization of NC Programs by Group Technology Theory Application
17:15 - 17:30	Malikov, R. Ossenbrink, B. Viehweger and V. Michailov	Flat Hemming of Structured Sheet Metals

17:30 - 17:45	N. Baroiu, V.G. Teodor, S. Berbinschi and N. Oancea	Multi-Flute Helical Drills — The Modeling of a Hyperboloid Sharpening Method of the Back Faces
17:45 - 18:15	Pause	
18:15 - 18:30	Z. Murčinková and J. Murčinko	Damping properties of nonconventional materials applied to rotating components of machine tools
18:30 - 18:45	P. Fomkin, N. Novikova and L. Strogonova	Technical problems of microbiological protection of a manned space vehicle and stations
18:45 - 19:00	N. Filip, H.Ile and L.Candale	About the noise energy conversion from road transportation
19:00 - 19:15	N. Karami Mohammadi, S. Azadi and A. Karami Mohammadi	A Model Reference Adaptive Cruise Control
19:15 - 19:30	R. Dul, A.B. Palotas and K.Jarmai	Heat Exchanger Optimization for Domestic Fireplaces Via Computational Fluid Dynamics Simulations

Hall B, 01. September 2011		
10:00 - 10:15	T. Baidyk, E. Kussul, A.Vega and C. Gonzalez	Tissue Analysis with Random Subspace Neural Classifier
10:15 - 10:30	H. Radelja, M. Kršulja, L. Šikulec and Z. Car	Measurements data analysis and defect classification using NN
10:30 - 10:45	L. Dudás	Modelling and Optimization of New Gear Types Based on Kinematic Properties of Space
10:45 - 11:00	L. Banjanović-Mehmedović, I. Bosankic and F.Mehmedovic	Robotic Assembly Planning Motion based on Genetic Algorithm
11:00 - 11:15	A. Ermakov, P. Fomkin and S. Padalko	Mathematical methods in the sphere of microbiological safety: Detection and location of microorganisms on the image
11:15 - 11:30	W. Stankiewicz, R. Roszak and M. Morzyński	Low Dimensional Modelling of a Flow around an Airfoil using Genetic Algorithm-based Calibration
11:30 - 11:45	N. Nauels, F.Beggel, M.Modigell, E.Pfaff, C. Broeckmann and A. Kaletsch	High temperature air separation for oxyfuel-combustion by means of a ceramic membrane module
11:45 - 12:00	Pause	
12:00 - 12:15	A. Albers, P. Martin, B. Lorentz and W. Burger	FEM-Modeling of Newly Designed Electrical Contacts

12:15 - 12:30	Y.S. Rammohan and H. Murthy	Effect of Integration Schemes in Three Dimensional Contact Analysis of Partial Slip Contacts
12:30 - 12:45	O.Beniugă, O. Neacșu, A. Sălceanu and R.Beniugă	Evaluating the immunity of electronic devices under the action of electrostatic discharge in near field environment
12:45 - 13:00	B.Dobrucky, J. Kassa and P. Zaskalicky	2-Phase Electronic Drive for Home- and Transport Applications
13:00 - 14:00	Lunch	
14:00 - 14:15	M. Rychlik, M. Niezgodka and M. Kmiec	The Concept of Active Rear Car Spoiler - Preliminary Study
14:15 - 14:30	V. Drăgan	A topological study of a Rankine cycle turbofan engine for use in a super circulation wing configuration for transport aircraft
14:30 - 14:45	D. Wowreczko, R. Müller and M. Esser	Design scenarios and assembly strategies for electric vehicle power trains
14:45 - 15:00	T. Wieggers	How designers communicate shape and shape operations
15:00 - 15:15	J.S.M. Vergeest, A. Kooijman and Y. Song	Collecting Long-Duration Car Driving Data Using an Onboard Camera
15:15 - 15:30	Cs. Csiszar, D. Válóczi and D. Shestakov	Integrated Telematics System for Passengers' Guide at Intermodal Traffic Centres
15:30 - 15:45	V. Ferencey, M. Bugár and V. Staňák	Advanced hybrid energy source for dynamic modes of vehicle motion
15:45 - 16:00	Z. Stefanović, I. Kostić and O. Kostić	Efficient Evaluation of Preliminary Aerodynamic Characteristics of Light Trainer Aircraft
16:00 - 16:30	Pause	
16:30 - 16:45	A. Lehtio and T. Perkiö	Replacing mercury discharge lamps for street lighting
16:46 - 17:00	Abdelwahab O. Gebril & Abdelnaser Omran	An investigation into public participation in the recycling of solid wastes in Malaysia: A case study
17:00 - 17:15	V. Conić, V. Cvetkovski, M. Cvetkovska	Comparing of hydrometallurgical extractions of copper in RTB Bor and Institute for Mining and Metallurgy
17:15 - 17:30	A. Bakos	A Modern Freight Distribution Model for Urban Areas

17:30 - 17:45	M. Ali and O. Zeitoun	Thermal conductivity of a new natural insulating material extracted from some plant grows up in Saudi Arabia
17:45 - 18:15	Pause	
18:15 - 18:30	F. Ilie and C. Tita	Behavior tribological of nanoparticles on base of tungsten disulphide
18:30 - 18:45	M. V. Miloradov, I. Spanik, D. Milovanovic, M. Miloradov, M. Djogo and M. Dimkic	Good quality of groundwater sources as the challenge for innovative technology
18:45 - 19:00	R. Roszak, W. Stankiewicz, M. Morzynski and W. Chajec	Aeroelastic Simulation of Symmetric Manoeuvre of an Ultra-light Aircraft
19:00 - 19:15	L. Strogonova, S. Makarova, M. Terentiev	Realization of permanent 24-hour medical control of psychophysiological state and registration of spatial coordinates with the use of Wireless Sensor Network
19:15 - 19:30	J. Castro, O. Lengerke and H. Gonzalez	Mechatronics Design of a Smart Wheelchair

September 2nd 2011.

Hall A, 02. September 2011		
Invited lecture		
08:40 - 08:55	M. Plančak, Z. Car, D. Vilotić, D. Movrin, N. Jovanović	Joining of Bimetallic Axisymmetric Profiled Components by Upsetting In Closed Die

Hall A, 02. September 2011		
09:00 - 09:15	M. B. Ilie, M. D. Pascovici, T. Cicone and A. Predescu	Permeability analysis of compressible porous structures in static and dynamic conditions
09:15 - 09:30	K. Großmann and H. Höfer	Defined elastic connecting elements of an experimental machine
09:30 - 09:45	L. Dudás	Modelling and Optimization of New Gear Types Based on Kinematic Properties of Space
09:45 - 10:00	J. Kardoš	The Accuracy of Tracking in Variable Structure Motion Control System
10:00 - 10:15	T. Ramesh, R. Bharanidaran and S.Malarvizhi	Piezo-electric actuation based microgrippers for MEMS applications

10:15 - 10:30	Khalid A. Al-Saif and A. S. Sowayan	Vibration control of flow induced vibrations by self excited system
10:30 - 10:45	Pause	
10:45 - 11:00	J. Nayak, N. Malhotra and P. Vaidyanathan	A new encryption technique for the secured transmission and storage of text information with medical images
11:00 - 11:15	M. A. Foda	Transverse Vibration Control of a Translating Double-String System
11:15 - 11:30	E. Grbac, J. Lerga, and V. Sucic	Video Denoising Using the ICI Method
11:30 - 11:45	B. Szabo and Z. Szalay	Based Safety Analysis Method for an Autonomous Vehicle Control System
11:45 - 12:00	J.P. Hessling	Deterministic sampling for propagating model uncertainty
12:00 - 13:00	Lunch	
13:00 - 13:15	I. Calvo, I. Etxeberria-Agiriano, F. Pérez and O. García de Albeniz	Towards a DDS Backbone for Industrial Automation Communications
13:15 - 13:30	I. Etxeberria-Agiriano and I. Calvo	A Web Service Interface for Teleoperating an Industrial Robot
13:30 - 13:45	A. Gonchar and A. Tolyarenko	Applied mathematical methods for the piloted transport ship crew's safety during the preparation stage
13:45 - 14:00	A. Zaheer	Impact of Management Information System in Banking Sector
14:00 - 14:15	M.V. Castilla	Tools for a decision support system in engineering design
14:30 - 14:45	Pause	
14:45 - 15:00	B. Alsayyed and Y. Alhayek	Six sigma as methodology for DFX
15:00 - 15:15	A. Karlsson and O. Isaksson	Product Configuration Using Design for Mode of Application
15:15 - 15:30	P. Baron and J. Dobránsky	Simulation analysis in the process of generating design proposals of injection molds
15:30 - 15:45	K. Großmann, H. Wiemer, M. Helbig, J. Weller and M. Jührisch	Adapting potentials of biogenetic materials into composites by using the advantages of database-driven modeling
15:45 - 16:00	D. Korac, N. Saulig, V. Sucic, and D. Sersic	Detecting the Number of Components of Multicomponent Nonstationary Signals Using the Rényi Entropy of Their Time-Frequency Distributions
16:00 - 16:15	Pause	

16:15 - 16:30	M. Olariu, R. Ciobanu, S. Cetiner, S. Arădoaei and S. Sarac	Evolution of Dielectric Properties of Conducting Polymers
16:30 - 16:45	T. Pepelnjak, T. Pirh and K. Kuzman	Determination of Forming Properties for Tubular Specimens
16:45 - 17:00	T. Kökényesi and I. Varjasi	Hardware-in-the-Loop Simulation of Power Converters Using FPGA Devices
17:00 - 17:15	D. Strnad and N. Guid	GPU-based parallel position evaluation for <i>k</i> -in-a-row connection games
17:15 - 17:30	J. Montoya-Larrahondo, E. Laniado-Jacome	Vibration Analysis produced by the variation of the Magnetic Force present in the models of Linear Motor with Permanent Magnets of opposite poles and Halbach type
Main Hall, September 2nd 2011.		
17:50 - 18:15	Closing speech	J. Kudlacek Z. Car

Hall B, 02. September 2011		
09:00 - 09:15	M. Math, Z. Keran and P. Piljek	Critical overview of modified hydraulic bulging in determination of flaw stress curve
09:15 - 09:30	A. Albers, P. Martin and W. Burger	Abstract Modeling and resulting Design of Contacts in Electrical Connectors
09:30 - 09:45	K. Sankaranarayananasamy, T. Suthakar, K. R. Balasubramanian and G. Buvanashakaran	Studies on effect of Marangoni convection in laser welding of austenitic stainless steel using CFD
09:45 - 10:00	A. Karami mohammadi and M. Amjadipoor	Effect of vacancy defect on natural vibration of single walled carbon nanotube
10:00 - 10:15	E. Kornienko, R. Ossenbrink and V. Michailov	Investigation of Corrosion Behaviour of Structured Sheet Metals by Salt Spray Test
10:15 - 10:30	O. Čičáková, J. Janík, and M. Veselý	Computerized measurements in vacuum
10:30 - 10:45	Pause	
10:45 - 11:00	A. Vulcan, D. Raducanu, V.D. Cojocaru, D. Gordin, I. Thibon, I. Cinca and C. Dumitrescu	Behaviour of Ti-25Ta-25Nb alloy during the severe plastic deformation (SPD) processing
11:00 - 11:15	S. Guarino, M. Barletta and K. Afilal	Fatigue life improvement of steel components by surface diode laser treatments
11:15 - 11:30	F. Domotor, P. Banlaki and Z. Weltsch	Complex Diagnostics of Metal Composite Materials

11:30 - 11:45	M. Czampa, S. Zatykó, A. Németh, T. Szalay	Change of physical and geometrical characteristics of sintered iron components due to varying the process parameters
11:45 - 12:00	D. Benasciutti, F. De Bona and M. Gh. Munteanu	A semi-analytical finite element approach in machine design of axisymmetric structures
12:00 - 13:00	Lunch	
13:00 - 13:15	D. Klobčar, L. Kosec, T. Pepelnjak and J. Tušek	Microstructure and Mechanical properties of Friction Stir welded AlMg4.5Mn alloy
13:15 - 13:30	L. Lešnik, B. Vajda, Z. Žunič and B. Kegl	Numerical and experimental research of spray characteristics
13:30 - 13:45	I. Éles, T. Szalay and B. Barisic	Adjustable positioning using deformation of V-blocks
13:45 - 14:00	Y. Feng, L. T. Scholz, D. Lee, H. I. C. Dalgarno, D. M. H. Foo, L. Yang, W. Lu and A. H. Greenaway	Multi-mode microscopy using diffractive optical elements
14:00 - 14:15	M. Janák, M. Kociško and V. Fečová	Digitization of sizeable objects with use of contact scanning device
14:30 - 14:45	Pause	
14:45 - 15:00	V. A. Neamțu, R. Burlacu and A. C. Brătescu	New Method for Curing Nanostructural Adhesives
15:00 - 15:15	B. Vajda, L. Lešnik, Z. Žunič and B. Kegl	Analysis of spray structure characteristics
15:15 - 15:30	D. Paunescu and M-V. Paunescu	Implementation of Tooth-Concentrated Windings in Axial Flux Permanent Magnet Generators for Wind Energy Conversion
15:30 - 15:45	M. De Falco, G.L. Guizzi, G. Deliso, G. Recine, A. Zaccagnini	Design tool for the assessment of micro-cogeneration applications
15:45 - 16:00	K. Lakatos and S. Hajdú	On the Features of the Pitch Control Related to the Working Parameters of a Vertical Axis Wind Turbines (VAWT)
16:00 - 16:15	Pause	
16:15 - 16:30	S. Darie, K. Meagher, W. Zhang and J. Pan	Photovoltaic Units Dynamic Models for Power System Integration
16:30 - 16:45	W. Hufenbach, F. Kolbe, M. Dannemann, M. Pohl and R. Klug	Compact vacuum assisted toilet system for business jets
16:45 - 17:00	D. Grad and V. Dragăn	An aerodynamic study of an eroded airfoil
17:00 - 17:15	T. Popa, D. Popa and G. Chitu	Methane Hydrate - the Potential Source of the Energy

17:15 - 17:30	E. Kayaoglu, I. Gerdemeli and O. Salman	Design For Assembly In Concurrent Engineering A Case Study On Its Application: Package Carrier and Creaser Sub-Assembly
17:30 - 17:45	M. Georgijevic, V. Bojanic, G. Bojanic and S. Bojic	Simulation as the most modern optimization tool– application to the complex logistic systems
Main Hall, September 2nd 2011.		
17:50 - 18:15	Closing speech	J. Kudlacek Z. Car

Posters list	
Lj. Avramović, R. Jonović, M. Bugarin, Z. Stevanović, V. Gardić, S. Stanković and R. Kovačević	Purification of waste water generated in the RTB Bor
B. Lénárt and I. Fehérvári	Using an Adaptive Neuro-fuzzy Inference System for Adaptive Inventory Control
A. Božinovski	Linear-Time Binary Tree Generation Algorithms for Arbitrary Input String Reproduction upon Depth-First Traversal and Rotation Of a Binary Tree
M. Clauß, H. Baum and E. Müller	Benefits from the Application of the Morphological-Typological Method in the Science Process
J. Stránska, M. Chovancová and M. Malcho	Measurement of Thermophysical Properties Affecting the Transport of Heat
E. Khamees	Use of Secrets of the Pyramidal Form in spatial Forming of Interior Design and Furniture
T. Gokhale, A. Wali, S. Parikh and N. Sood	Lux genes as biosensors for environmental pollutants
O. Ali Hashem	The Effect of Advancement in Artificial Lightening on Applying Design Concepts for Interior Spaces of Touristic Buildings
M. Fike, G. Bombek and A. Hribernik	Numerical and experimental study of flow around airfoil
Y.K. Cho, B.C. Shin, S.J. Ha, J.S. Kim, M.W. Cho, S.M. Kim and D.S. Park	Fabrication of Integrated Micromixer (IMM) Using aDMDbased Maskless Lithography System
S. Iliina, V. Manoliu and Gh. Ionescu	Influence of thermal shock tests on thermal barrier coatings
J. C. Caicedo, M. E. Gómez, J. Esteve, and P. Prieto	Improvement of tribological properties by growing multilayered [TiCN/Ti(Nb)CN] _n coatings

J. Galvão ¹ , S. Leitão ² , S. Silva ² , A. Moura ³ , T. Gaio ⁴	Bioenergy and Small Cogeneration System in Building Services
J. Słoma, J. Olejnikowski, R. Mruk, J. Osiak, H. Roszkowski, J. Wojdalski and M. Klimkiewicz	The computer controlled test bench for research of diesel engine powered with unprocessed rapeseed oil fuels
K. Kaduchová, R. Lenhard, Š. Papučík and J. Jandačka	Experimental measurement of indirect heat water heater
I. Karabegović, S. Pašić and E. Karabegović	Distribution of Industrial Robots in Europe for MIG/MAG Welding Process
T. Kegl	The development of Stirling engine for demonstration purpose to increase the ecology knowledge
H. Kokten and S. Erkoç	Theoretical Study of Fluorine-doped c-BN(110)
T. Lekscha and D. Durackova	Measurements of the Ultrasonic Transducer Power Output at Ultrasonic-Therapy-Devices with Piezoceramic Sensors
T. Maver, K. Stana Kleinschek, Z. Peršin and U. Maver	Decoration of AFM tips for evaluation of interaction forces between polymers and model substrates
U. Maver, T. Maver, Z. Peršin and K. Stana Kleinschek	AFM as a polymer characterization method for increased efficiency of wound dressing preparation
Ž. Milanović, I. Marasović and T. Betti	Simulation of directed percolation on ideal and real random diode networks
Č. Mitrović, N. Petrović, A. Bengin, D. Bekrić, V. Dragović, A. Simonović, G. Vorotović, S. Radojević and D. Stamenković	Structural Testing of Small Wind Turbine Blade up to Failure
E. Mujčić, A. Osmanović	Internet-based teleoperation using Wave variables
B. Neral, S. Fijan, and S. Šostar- Turk	Soil removal and disinfection of textiles using LCO ₂ treatment
P. Häuptle, P. Hubinský and G. Gruhler	Investigation to gear-box disturbances in mechatronic drives
Z. Persin, T. Maver and K. Stana- Kleinschek	Plasma-treated cellulose non-woven material for improved adsorption capacity and mechanical properties
A. Petrović-Gegić and B. Savić	Wastewater of cellulose and paper industry, situation analysis and solution proposition for factory AD Lepenka from Novi Knezevac, Srbija
P. Raos, Z. Tonković and M. Šerčer	Investigation on electrofusion weld properties of polyethylene gas pipes
O. Šauperl and T. Kreže	Influence of Temperature of Drying on the Amino Group Amount of Cellulose Fibres Functionalized with Chitosan
O. Šauperl, J. Volmajer-Valh and B. Neral	Preparation of Chitosan – Eugenol graft for potential antimicrobial protection of cellulose fibres

B. Savic, A. Petrovic-Gegic and B. Scepanovic	Development and application of technical diagnostics in the service of maintaining systems for wastewater treatment
M. Šerčer, D. Godec and P. Raos	From idea to the final polymer product
I. Stefaniuk and P. Potera	The EPR measurements of Al ₂ O ₃ and ZrO ₂ powders used in aerospace industry
S. Strnad and T. Kreže	Poultry feather wastes – optimization of cleaning procedure for new products development
S. Strnad, O. Šauperl and L. Fras Zemljič	Influence of chitosan treatment on hydrophilic/hydrophobic character of cellulose fibers
S. Strnad, N. Velkova, L. Fras Zemljič and A. Doliška	Xylan modification for hemocompatibility achievement
S. Tekeli, A. Akcimen, O. Gurdal and M. Guru	Effect of Titania (TiO ₂) Amount on the Mechanical and Electrical Properties of Cubic Zirconia (c-ZrO ₂)/Titania (TiO ₂) Composites
I. Vojtko, M. Janák, P. Baron, J. Hal'ko and A. Šmeringaiová	Vibration Analyses of Worm Gear Boxes
M. Žiška, M. Kóňa, M. Mikolášek and I. Podpera	Support of Soft Skills for Students of Technical Universities
R. Elsfoury and R. Mahmoud	Pictogram positive role in designing window displays in Shopping Centers
M. Elhalaby and R. Elsfory	The window display design in touristic environments
Awatif A. Al-Judaibi	Effect of Some Fermentation Parameters on Ethanol Production From Beet Molasses By <i>Saccharomyces cerevisiae</i> CAIM13
R.P. Něco, R. Puerto, C. Fernández and M.A. Vicente	Simulation tools for advanced controllers design
C. S. Simionescu	Gear Manufacturing Using Worm Cutter with Removable Carbide Plates
P. Nemeč, A. Čaja and M. Malcho	Monitoring heat transport dynamics of heat pipe by thermovision
Micle Valer, Berar (Sur) Ioana Monica, Cociorhan Camelia, Stoica Octavian, Urs (Nedelcu) Alina Monica	Innovative solution for biological treatment of soils contaminated by metallurgical industry