



UNIVERSITY OF CRAIOVA

Faculty of Mechanics

Department of Engineering and Management
of Technological Systems



2nd International Conference
ADVANCES
IN
ENGINEERING & MANAGEMENT



ADEM 2012
Conference Program



December 13th – 14th, 2012
Drobeta Turnu-Severin

Programme of ADEM 2012

December, 12 th		
17 ⁰⁰ – 19 ⁰⁰	Registration	“Continental” Hotel, Lobby
19 ⁰⁰ – 23 ⁰⁰	Welcome Cocktail	“Continental” Hotel, Restaurant
December, 13 th		
09 ⁰⁰ – 10 ⁰⁰	Registration	Registration Desk, CUDTS
10 ⁰⁰ – 11 ⁰⁰	Plenary Session	“Gheorghe Anghel” Auditorium, CUDTS
11 ⁰⁰ – 11 ²⁰	Coffee Break	CUDTS
11 ²⁰ – 12 ²⁰	Plenary Session	“Gheorghe Anghel” Auditorium, CUDTS
13 ⁰⁰ – 14 ³⁰	Lunch	“Diplomat” Restaurant
15 ⁰⁰ – 17 ¹⁵	Oral Session	IMST Department – B11, B13, B14
17 ¹⁵ – 17 ³⁰	Coffee Break	IMST Department
17 ³⁰ – 19 ⁴⁵	Oral Session	IMST Department – B11, B13, B14
20 ³⁰	Banquet	“Continental” Hotel, Restaurant
December, 14 th		
09 ⁰⁰ – 10 ³⁰	Oral Session	IMST Department – B11, B13, B14
10 ³⁰ – 10 ⁴⁵	Coffee Break	IMST Department
10 ⁴⁵ – 11 ⁰⁰	Closing Words	IMST Department – B11, B13, B14
11 ³⁰	Technical Visit	Iron Gate I Power Plant

Registration & Fee

Categories	Fees
Conference Fee	150 RON / 35 EUR
Additional Conference Proceedings	45 RON / 10 EUR

Methods of payment:

- a. Bank account: RO54CARP026000670016EU01, PRONANOMAT Association (for EUR)
RO54CARP026000670016RO01, PRONANOMAT Association (for RON)
(Consider important to specify “Fee for ADEM 2012”, name and affiliation of the participant)
- b. Cash, at Conference Desk

Plenary Session – “Gheorghe Anghel” Auditorium

10 ⁰⁰ – 10 ¹⁵	Welcome Speech	I. CIUPITU, vice – Rector UCV
10 ¹⁵ – 10 ³⁵	Research and Development at IMST Department	G. BENGA, Head of Department IMST
10 ³⁵ – 11 ⁰⁰	New lignocelluloses composites for automotive interior components	I. CURTU, O. M. TERCIU, M. D. STANCIU

Coffee Break – CUDTS

11 ²⁰ – 11 ⁴⁰	High performance thermal sprayed coatings	A. V. SERBAN, A. RADUTA, D. UTU
11 ⁴⁰ – 12 ⁰⁰	Gradual Porous Sintered Materials by Powder Sedimentation	I. VIDA-SIMITI
12 ⁰⁰ – 12 ²⁰	Nanotechnology – based decontaminant materials: a review	D. PANAGIOTARAS

Lunch – “Diplomat” Restaurant

13 ⁰⁰ – 14 ³⁰	Lunch	“Diplomat” Restaurant
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Oral Session – IMST Department

ADVANCED MATERIALS AND TECHNOLOGIES		
IMST Department, B13		
Chairman: Oana GINGU		
15 ⁰⁰ – 15 ¹⁵	Textile inserts into sandwich panels made of glued veneers. Influence on curvature radius	C. COŞEREANU, D. LICA
15 ¹⁵ – 15 ³⁰	The influence of the powders loading voltage upon the micro-hardness and ohmic resistance of the layers deposited by metallization	I. C. ROATA, R. IOVANAS
15 ³⁰ – 15 ⁴⁵	Influence of two steps sintering parameters on tribological behaviour of nanostructured Hap/Ti biocomposites	O. GINGU, G. BENGA, I. PASCU, G. SIMA, A. OLEI, A. HARABOR
15 ⁴⁵ – 16 ⁰⁰	Tensile test behavior of sintered steels produced by „gascarbusint” method	M. C. CRIVEANU, M. C. MANGRA

16 ⁰⁰ – 16 ¹⁵	Research regarding the mechanical milling process of barium ferrite type M	V. H. NICOARA, C. NICOLICESCU, I. STEFAN
16 ¹⁵ – 16 ³⁰	Thermal behavior of mechanically alloyed powders based on tungsten carbide	C. NICOLICESCU, V. H. NICOARĂ, S. RADU, I. STEFAN
16 ³⁰ – 16 ⁴⁵	Mechanisms of slag deposits accumulation on combustion systems areas	A. POPA, S. M. SOFRONIE
16 ⁴⁵ – 17 ⁰⁰	Researches on formation of BaFe ₂ O ₄ from ceramic powders obtained by ball milling	I. STEFAN, C. NICOLICESCU, A. OLEI, M. TROTEA
17 ⁰⁰ – 17 ¹⁵	Influence of the reinforcing elements on the wear behavior of Al (SiC + graphite) composites elaborated by classic sintering route	G. SIMA, O. GÎNGU
17 ¹⁵ – 17 ³⁰	COFFEE BREAK	IMST Department
17 ³⁰ – 17 ⁴⁵	The characterization of steel layer obtained by nitro-carburizing in nitrogen and propane controlled atmosphere	S. DUBOVAN, T. POPESCU, V. BUHARU
17 ⁴⁵ – 18 ⁰⁰	Studies regarding the carbon distribution and hardness of iron parts sintered in vacuum and carburized	T. POPESCU, C. GHERMEC, O. GHERMEC
18 ⁰⁰ – 18 ¹⁵	Studies regarding the influence of the amount of carbon on the resilience of steels obtained by carburizing of iron powder in methane gas atmosphere	C. GHERMEC, O. GHERMEC
18 ¹⁵ – 18 ³⁰	Mechanical properties regarding to aluminum foam-filled tubes	M. CARANFIL, V. GEAMAN, D. L. MOTOC
18 ³⁰ – 18 ⁴⁵	Casting techniques applied for obtaining aluminum foams with closed pores	M. CARANFIL, V. GEAMAN, M. A. POP, V. JIMAN, D. L. MOTOC
18 ⁴⁵ – 19 ⁰⁰	Laser-Diode as power source for polymer bonding	I.D. SAVU, S.V. SAVU
19 ⁰⁰ – 19 ¹⁵	New Romanian developments in the field of the quality of the welding processes	I.D. SAVU, L. DOMUTA, S.V. SAVU
19 ¹⁵ – 19 ³⁰	Study regarding the front wing aerodynamics of a race car	D. TUTUNEA, G. GHERGHINA



ENVIRONMENT ENGINEERING FOR SUSTAINABLE DEVELOPMENT

IMST Department, B11

Chairman: Elena GAVRILESCU

15 ⁰⁰ – 15 ¹⁵	Study of noise pollution produced by rail traffic	G. DEMIAN, M. DEMIAN
15 ¹⁵ – 15 ³⁰	Overview of non-polluting technologies to produce electric energy	M. DEMIAN, G. DEMIAN
15 ³⁰ – 15 ⁴⁵	Research on replacement of pollutant	I. G. BUCSE, M. CIOBANU

	alloying elements with ecologically elements in sintered alloyed steels	
15 ⁴⁵ – 16 ⁰⁰	The ecological rehabilitation of the ash layers from the central area of Oltenia	C. COTIGA, M. CIOBANU, I. G. BUCSE
16 ⁰⁰ – 16 ¹⁵	Study on use of solar energy in Mehedinți county	O. GHERMEC, C. GHERMEC
16 ¹⁵ – 16 ³⁰	The monitoring of sound pollution in Craiova city	E. GAVRILESCU, S. M. POPESCU, D. E. CIUPEANU-CALUGARU
16 ³⁰ – 16 ⁴⁵	Possibilities of obtaining metallic powders from recycled chips	S. RADU, C. NICOLICESCU, M. CIOBANU
16 ⁴⁵ – 17 ⁰⁰	Studies on the increasing of the environmental performance when obtaining high resistance parts through PM	T. POPESCU, O. GHERMEC, C. GHERMEC
17 ¹⁰ – 17 ¹⁵	Studies on air quality evolution in Drobeta Turnu - Severin	M. CIOBANU, S. RADU, I. G. BUCSE
17 ¹⁵ – 17 ³⁰	COFFEE BREAK	IMST Department
17 ³⁰ – 17 ⁴⁵	Environmental management at H.S. PORTILE DE FIER	S. SBIRCEA
17 ⁴⁵ – 18 ⁰⁰	Technical report on the wastewater treatment plant (WWTP) at Smithfield slaughterhouse SRL Timișoara	M. CRIVEANU
18 ⁰⁰ – 18 ¹⁵	Aspects about using multi-criteria decision models for making decisions regarding environmental quality and protection	L. GRECU
18 ¹⁵ – 18 ³⁰	The behavior of a 4 stroke SI engine during laboratory experiments with regard over pollutant emissions	A. M. DIMA
18 ³⁰ – 18 ⁴⁵	Studies and researches over the soot deposits on a DI diesel engine	A. M. DIMA
18 ⁴⁵ – 19 ⁰⁰	Considerations above combustion of solid fuels indoors	S. SOFRONIE, A. POPA
19 ⁰⁰ – 19 ¹⁵	Enhancing the environmental impact of solid (un)conventional fuels' combustion by conducting a viable kinetic analysis	A. ROTARU



MODELING AND SIMULATION

IMST Department, B14

Chairman: Daniela COMAN

15 ⁰⁰ – 15 ¹⁵	Simulation of urban traffic noise reduction in Brasov City using noise barriers	M. D. STANCIU, I. CURTU, I. TIMAR
15 ¹⁵ – 15 ³⁰	FEM applied to analyse a chair resistance when used various species of wood compared with oak depreciated wood	C. COŞEREANU, D. LICA, I. CURTU

15 ³⁰ – 15 ⁴⁵	Theoretical approach and FEM analysis on mixed hardwood composite panels	C. COŞEREANU, I. CURTU
15 ⁴⁵ – 16 ⁰⁰	Micromechanics based predictions of hybrid CF/CG polymer composites dynamic effective properties	D. LUCA MOTOC, V. GEAMAN
16 ⁰⁰ – 16 ¹⁵	Green composites' CTE property prediction based on micromechanical modeling	D. LUCA MOTOC, V. GEAMAN
16 ¹⁵ – 16 ³⁰	Experimental method for modal parameters identification	D. ILINCIOIU, C. M. MIRITOIU
16 ³⁰ – 16 ⁴⁵	Control of a tentacle structure based on energetic relations	M. FLORESCU
16 ⁴⁵ – 17 ⁰⁰	Parameter case simulation for mobile robot kinematics	A. IONESCU
17 ⁰⁰ – 17 ¹⁵	Stochastic Petri net in flexible manufacturing system modeling	D. COMAN
17 ¹⁵ – 17 ³⁰	COFFEE BREAK	IMST Department



INLAND NAVIGATION AND LOGISTICS

IMST Department, B14

Chairman: M. GHIBA

17 ³⁰ – 17 ⁴⁵	The Danube Strategy and the Slovak Republic	A. DAVID, J. SOSEDOVA
17 ⁴⁵ – 18 ⁰⁰	Some identification possibilities on hull derivative investigation	D. G. GYÖRGY
18 ⁰⁰ – 18 ¹⁵	Transient parameter sensibility of semi empirical motion equations of inland vessels	C. L. HARGITAI
18 ¹⁵ – 18 ³⁰	Intermodal transport studies on the Romanian sector of the Danube	L. DUBOVAN, T. POPESCU
18 ³⁰ – 18 ⁴⁵	Improving risk control parameters through selective collection and quantified parameters efficient communication	M. GHIBA
18 ⁴⁵ – 19 ⁰⁰	Strategy towards harmonization of inland waterways transport education and training	G. BENGA, M. GHIBA
19 ⁰⁰ – 19 ¹⁵	Transnational cooperation network among the IWT education and training organizations	S. SAVU, D. SAVU
19 ⁰⁰ – 19 ¹⁵	Inland waterways transport for logistic chain	S. DUBOVAN, L. DUBOVAN

Banquet – “Continental” Hotel, Restaurant

Oral Session – IMST Department

09 ⁰⁰ – 10 ³⁰	Conclusions	IMST Department – B11, B13, B14
10 ³⁰ – 10 ⁴⁵	Coffee Break	IMST Department
10 ⁴⁵ – 11 ⁰⁰	Closing Words	IMST Department – B11, B13, B14

Technical Visit – IRON GATE 1 Power Plant



Drobeta Turnu Severin



MAP

