

**PROGRAM OF THE EVENTS IN THE FRAME OF THE SCIENTIFIC REUNION COFRET06 AND
NETBIOCOF WORKSHOP
TIMISOARA
FACULTY OF MECHANICAL ENGINEERING
DEPARTMENT OF MECHANICAL MACHINES, EQUIPMENTS AND TRANSPORTATION**

When	Where	Event	Purpose			Timetable	
Wednesday, 14.06.2006	150, Faculty for Mechanical Engineering		Honoris causa Ceremony	Laudatio professor Sadanari Mochizuki, TUAT Japan Musical foreword and closure Cocktail			18.30 – 19.40 19.40 – 22.00
Chairpersons: Michel FEIDT, Mohand TAZEROUT, Thierry MERAUD, Marius PECULEA, Ioana IONEL							
Thursday, 15.06.2006	150, Faculty of Mechanical Engineering	Opening ceremony		PRELUDIU MUZICAL • INTERMEZZO (P. MASCAGNI) • PLAISIR D'AMOUR (J. MARTINI) • DANS UNGAR (J. BRAHMS)	Duo “Colompar” (violin and piano)	9.00-9.15	
			Welcome & Key note speeches		WELCOME	Nicolae ROBU Ioana IONEL	9.15 – 9.30
					RESEAU ADEME PECO - EURECO ET L'IMPORTANCE DE COFRET	Michel FEIDT	9.30 – 9.45
					NEWS - SALUTATIONS FROM BENA INCD-ECOIND. SHORT PRESENTATION	Margareta NICOLAU	9.45 – 10.00
					SUSTAINABILITY ASSESSMENT – THE ROLE OF THERMODYNAMICS	Cristian TEODORESCU	10.00 - 10.25
		CONVECTIVE HEAT TRANSFER IN MUCROTUBES FOR GASOUS FLOW	Sadik KAKAÇ	10.25 – 11.10			
	Main Hall – ground floor			COFFE BREAK VISIT OF THE POSTER EXHIBITION		11.10 – 11.40	
	150, Faculty for Mechanical Engineering			THE MECHANISM OF GAS TRANSPORT IN HUMAN RESPIRATORY CYCLE AND ITS APPLICATION TO TECHNOLOGY	Sadanari MOCHIZUKI	11.40 – 12.25	
				POLITIQUE D'EFFICACITE ENERGETIQUE A L'ECHELLE DES COLLECTIVITES LOCALES : QUELS ENJEUX ?	Thierry .MÉRAUD	12.25 - 13.10	
				THERMODYNAMICS ANALYSIS OF HYDROGEN PRODUCTION FROM BIOMASS GASIFICATION IN SUPERCRITICAL WATER	Liejin GUO Presented by Qihui YAN	13.10 – 13.45	

	Main Hall – ground floor Fac. Mech	Lunch	Warm buffet catering	Soup, 2 main plates at selection, fruits, sweets, refreshments, beer	13.45 – 14.45
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Thursday, 15.06.2006	131, second floor, Faculty of Mechanical Engineering	SESSION 1	15.00 – 16.30
	120, first floor, Faculty of Mechanical Engineering	SESSION 3	
	115, first floor, Faculty of Mechanical Engineering	SESSION 4	
	196, third floor, Faculty of Mechanical Engineering	SESSION 5	
	140, third floor, Faculty of Mechanical Engineering	SESSION 6	
	134, third floor, Faculty of Mechanical Engineering	SESSION 7	
	SMC, separate building, in the back yard of the Faculty of Mechanical Engineering	SESSION 8	
	150, first floor, Faculty of Mechanical Engineering	SESSION 10	
	Main floor	COFFEE BREAK POSTER SESSION	16.30 – 17.00
	131, second floor Faculty of Mechanical Engineering	SESSION 2	17.00 – 19.00
	120, first floor, Faculty of Mechanical Engineering	SESSION 3	
	115, first floor, Faculty of Mechanical Engineering	SESSION 4	
	196, third floor, Faculty of Mechanical Engineering	SESSION 5	
	140, third floor, Faculty of Mechanical Engineering	SESSION 6	
	134, third floor, Faculty of Mechanical Engineering	SESSION 7	
	SMC,, separate building, in the back yard of the Faculty of Mechanical Engineering	SESSION 9	
	150, first floor, Faculty of Mechanical Engineering	SESSION 10	

Faculty of Mechanical Engineering	Restaurant CASA POLI 2	Banquet	Fish file menuere, Romanian traditional dish (sarmale cu mamaliguta), Turkey roast, ice, fruits, cheese buffet, beer, vine, Life music « ANTARES » group and Short program achieved by the Romanian popular folklore dancing assembly “Doina Banatului”	19.30 – 23.00
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Friday, 16.06.2006	150, Faculty of Mechanical Engineering	NETBIOCOF	Workshop in the frame of FP6	Musical forward <ul style="list-style-type: none"> Ana Lugojana (I. Vidu) Vino Lele (I. Vidu) Liebesfreud (F. Kreisler) Rapsodia Romana – Ciocarlia (G. Enescu) Europe’s’ Hymn (from the 9-th symphony of L. v. Beethoven)	“Contrast” Chorus Assembly of the Romanian Opera of Timisoara Duo “Colompar” (violin and piano)	9.00- 9.15
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Chairpersons: G. SCHORIES, Ioana IONEL, Secretary: Cl. GRUESCU, G. TRIF –TORDAI

Friday, 16.06.2006	150, Faculty of Mechanical Engineering	NETBIOCOF	Introduction. Oral presentations		9.00 – 11.00
COFFEE BREAK					11.00 – 11.20
Friday, 16.06.2006	150, Faculty of Mechanical Engineering	NETBIOCOF	Oral presentations. Lessons to be learned. Conclusions		11.20 – 13.20
	Main Hall – ground floor Fac. Mech.	Lunch	Warm buffet catering	Soup, 2 main plates at selection, fruits, sweets, refreshments, beer	13.20 – 14.20

Chairwoman: Prof. dr. ing. Ana-Maria BIANCHI, Secretary: Fr. POPESCU

Friday, 16.06.2006	131A, second floor, Fac. Mech.	Round table	Efficacité énergétique des bâtiments: ou sommes nous ?	14.30 – 16.15
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Friday, 16.06.2006	Main Hall – ground floor	COFFE BREAK VISIT OF THE POSTER EXHIBITION CLOSURE OF THE PRESENTATIONS AND CONCLUSIONS			16.15 – 17.30 –
	Fac. Mech.	Depart pour RECAS (Wine cellar) en autobus	History of the cellar. Tasting probes. Dinner in the cellar Also, one shop for buying different special & old wines from the cellar will be open, especially for you.		17.30
		Departure from RECAS for returning by bus			21.30

Saturday, 17.06.2006	CASA POLI 2	Departure from CASA POLI 2 to the dissemination trip in the mountain region of Resita, by bus	Scope: visit of ancient technological achievements, including renewable energy sources. Museum of locomotives, Museum of diverse rare stones. Lunch at approx. 15.00: Starters, Fish, Refreshments	7.30 – 8.00 Return versus 20.00 in Timisoara
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SECTION 1. THERMODYNAMICS

Room 131 Chairpersons: M. Feidt , Gh. POPESCU, Secretary: C. LAURENTIU

TITLE OF PAPER	AUTHOR	Co-AUTHORS	PRES.
ETUDE D'AMELIORATION DU COEFFICIENT DE PERFORMANCE DES SYSTEMES THERMIQUES A QUATRE SOURCES	Michel FEIDT	Elena Eugenia VASILESCU	Oral
ANALYSE EXERGÉTIQUE D'UN SYSTÈME TURBINE À GAZ	Alexandru DOBROVICESCU	Françoise STRUB Jean-Paul DUMAS Michel STRUB Jean-Pierre BEDECARRATS Eugenia VASILESCU Dorin STANCIU Ion OPREA	Oral
LA THERMODYNAMIQUE ET LA SOCIETE	Mihai JADANEANT		Poster
THE DESIGN MAXIMUM POWER CRITERION	Gheorghe DUMITRASCU		Oral
ENERGY PERFORMANCES OF THE THERMAL REHABILITATED BUILDINGS – CASE STUDY	Raluca CAZANESCU	Dan BERBECARU Constanta CALUIANU Irina ANDRONACHE	Oral
3D TEMPERATURE FIELD MEASUREMENT AROUND A SINGLE VAPOR BUBBLE	Virgil STOICA	Peter STEPHAN	Poster
COMPRESSED AIR NETWORK CALCULUS USING COMPUTER PROGRAM	Ion DOSA		Poster
ANALYSE THERMODYNAMIQUE DU PROCESSUS IRREVERSIBLE DANS LE TUBE DE RANQUE – HILSCH	Michel FEIDT	Traian POPESCU, Gheorghe POPESCU, Monica COSTEA	Oral
THEORETICAL ANALISYS OF VOLUME FRACTION VARIATIONS ON THE THERMAL PROPERTIES OF WATER BASED MAGNETIZABLE NANOFLUIDS	Floriana STOIAN	Sorin HOLOTESCU	Poster
ETUDE EXPÉRIMENTALE DE LA CRISTALLISATION DE L'EAU À LA RUPTURE DE SURFUSION	J.P. Ribeiro	M. STRUB, J.P. BÉDÉCARRATS, Francoise STRUB, J.P. DUMAS	Oral

SECTION 2. COMBUSTION & GAZODYNAMICS

Room 131 Chairpersons: Jadaneant M., Stoian Floriana, Secretary: Laurentiu C.

TITLE OF PAPER	AUTHOR	Co-AUTHORS	PRES.
APPROCHE NODALE POUR LA MODÉLISATION DE LA PYROLYSE DE LA BIOMASSE	Răzvan VIJEU	Luc GERUN Jérôme BELLETTRE Mohand TAZEROUT Zohir YOUNSI Cathy CASTELAIN	Oral
THE ATMOSPHERICAL NOXES RESULTED FROM THE SOLID FUEL COMBUSTION IN THE THERMOCENTRALE PAROSENİ	Daniela Ionela CIOLEA		Poster
THE EFFECT OF INTERNAL FLUE GAS RECIRCULATION ON NOX FORMATION FUELLING PITCOAL	Paul-Dan OPRISA-STANESCU		Oral
ENTROPIC SKINS GEOMETRY APPLIED TO TURBULENT VELOCITY OF REACTIVE FRONTS	Diogo QUEIROS-CONDE	Michel FEIDT	Oral
STUDY ON THE DYNAMIC COMPRESSOR CHARACTERISTICS TRANSFORMATION AT THE ASPIRATION PARAMETERS AND ROTATION MODIFICATION	Dan Codrut PETRILEAN		Poster
NUMERICAL SIMULATION OF THE FLAME STABILIZATION INSIDE AN AERODERIVATIVE COMBUSTOR TO BE OPERATED WITH WASTE BIO-GAS	Tudor PRISECARU	Lucian MIHAESCU, Malina PRISECARU Cristu CANTUNIAR	Poster

SECTION 3. ENGINES & TURBINES

Room 120 Chairpersons: Popovici I., Iorga D. Secretary: Milos T.

TITLE OF PAPER	AUTHOR	Co-AUTHORS	PRES.
L'ANALYSE DES PERFORMANCES ENERGETIQUES DES MICRO-TURBINES A GAZ DE COGENERATION URBAINE AVEC POSTCOMBUSTION A LA CHAUDIERE DE RECUPERATION	Victor-Eduard CENUȘĂ	Florin-Niculae ALEXE	Oral
L'ANALYSE DES PERFORMANCES ENERGETIQUES DES MICRO-TURBINES A GAZ DE COGENERATION URBAINE AVEC POSTCOMBUSTION A LA CHAUDIERE DE RECUPERATION	Victor-Eduard CENUȘĂ	Florin-Niculae ALEXE	Poster
ANALYSE DE LA NON-ADIABATICITE DU CYCLE DIESEL ET DU CYCLE MIXTE APPLIQUES AU MOTEUR A COMBUSTION INTERNE ATMOSPHERIQUE	Abderrezak MERABET	Michel FEIDT Ali BOUCHOUCHA	Oral
BIOETHANOL- ECOLOGICAL FUEL FOR AUTOMOTIVE SPARK IGNITION ENGINE	Popa Marcel GINU	Constantin PANA, Niculae NEGURESCU Adrian BADEA, Alexandru CERNAT, Gabriel BOBOC, Dorin SOARE Anamaria CONSTANTINESCU	Oral
CO ₂ CAPTURE METHODS USED IN GAS TURBINE POWER PLANTS	Dumitru CEBRUCAN		Oral
EVALUATION OF COGENERATION SYSTEMS PERFORMANCE CRITERIA	Claudia IONITA	Mircea MARINESCU, A lexandru DOBROVICESCU, Eugenia Elena VASILESCU	Poster
THE OPTIMIZATION OF KAPLAN TURBINE BLADE SURFACE USING CAD PROGRAMS AND ANALYTICAL METHODS	Teodor MILOS		Poster
CIGARETTE SMOKE COAGULATION MEASUREMENT AND EMISSION FACTOR DETERMINATION	B. HEIDEN	M. MORCOS P.J. STURM	Poster
CONSIDERATINS ABOUT INCREASE PERFORMANCE OF WIND TURBINES WITH HORIZONTAL AXIS	I. D. BACIU	I. BORDEAȘU	Poster
OBD – A FURTHER STEP TOWARD PROTECTING AND MAINTAINING OUT THE ATMOSPHERE	Marin BICĂ	Marius STOICAN	Poster
EVALUATION THROUGH CALCULATION USING THE METHOD OF THE REAL CYCLE OF FUNCTIONING OF DIESEL ENGINE FOR THE EVOLUTION OF THE GASES TEMPERATURE IN ITS CYLINDER	Adela FILIP	Dan Virgiliu NEGREA	Oral
MODELATION POSIBILITY OF LOSSES THROUGH DIESEL ENGINE PISTON RINGS LEAKINESS	Daniel OSTOIA	Arina NEGOIȚESCU	Poster
THE INFLUENCE OF LOSES DIESEL ENGINE COMBUSTION CHAMBERS TO MECHANICAL INDICATE WORK AT IDLE CHARACTERISTIC	Lucian MĂDĂRAS	Daniel OSTOIA Sorin HOLOTESCU	Poster
ANALYSIS METHODS OF THE REAL COMPRESSION PROCESS FOR A DIESEL ENGINE	Sorin HOLOTESCU	Floriana D. STOIAN	Poster
RECHERCHE CONCERNANT LES MODIFICATIONS DES PERFORMANCES D'UN MOTEUR DIESEL À INJECTION DIRECTE PAR LA VARIATION DE LA VISCOSITÉ DU COMBUSTIBLE À L'AIDE D'UNE AIGUILLE ROTATIVE	Daniel IORGA	Liviu MIHON Gelu PADURE Ioan VRABIE Mikael HENRIOT	Oral

SECTION 4. REFRIGERATION SYSTEMS & HEAT PUMPS

Room 115 Chairpersons: A. Dobrovicescu A., André LALLEMAND, **Laza I. Secretary: Bulzu C.**

TITLE OF PAPER	AUTHOR	Co-AUTHORS	PRES.
ENERGETIC AND EXERGETIC OPTIMIZATION OF RESORPTION REFRIGERATION AND HEAT PUMPS SYSTEMS	Elena Eugenia VASILESCU	Alexandru DOBROVICESCU Michel FEIDT Rahal BOUSSEHAIN	Oral
COMPARATIVE ANALYSIS BETWEEN CONVENTIONAL AND FLOATING CONDENSATION SYSTEMS INTO REFRIGERATION INSTALLATIONS	Lucia Laura BORA	Josep Montserrat JORDÀ, Rafael Ruiz MANSILLA	Poster
WEB BASED MONITORING SYSTEM OF AN AIR CONDITIONING DEVICE	Mugur BALAN	Mihai DAMIAN	Oral
OPTIMISATION D'UNE POMPE A CHALEUR AVEC DES CONTRAINTES ET LOIS DE TRANSFERT NON-LINEAIRES	Camelia PETRE	Alice IACOB Michel FEIDT Monica COSTEA Stoian PETRESCU	Oral
RASPBERRY FRREEZING USING LIQUID NITROGEN	Valeriu DAMIAN	Gelu COMAN	Poster
MODELE MATHEMATIQUE POUR DETERMINER LES FUITES DU GAZ PAR LE SYSTEME D'ETANCHEITE DU PISTON AUX COMPRESSEURS	Liudmila ȚURCANU	Dan ANDREI George ANDREI	Oral
DETERMINATION DES FUITES DU GAZ PAR LE SYSTEME D'ETANCHEITE DU PISTON AUX COMPRESSEURS	Liudmila ȚURCANU	George ANDREI Dan ANDREI	Poster
UN NOUVEAU CONCEPT THERMODYNAMIQUE: THERMO-ACOUSTIQUE. REFRIGERATION THERMOACOUSTIQUE	George ANDREI	Dan ANDREI Liudmila TURCANU	Oral
STUDY ON THE EFFICIENCY AND THE ECOLOGICAL VALUE OF THE DME IN REFRIGERATION AND AIR CONDITIONING SYSTEMS	V. APOSTOL	Gabriela Târlea, G. POPESCU H. POP, E.ugeniaVASILESCU C. MARINESCU, A.V. SOLOIU	Oral
DIMENSIONNEMENT D'UNE MACHINE DE CLIMATISATION TRITHERME DANS LES CONDITIONS DE FONCTIONNEMENT OPTIMALES DE SON EJECTEUR UTILISANT LE R142B ET LE R600A	Latra BOUMARAF	André LALLEMAND	Oral
STUDY CONCERNING THE CONTROL OF RELIABILITY AND MAINTAINABILITY IN REAL TIME AND ON-LINE OF A CRYOGENIC INSTALLATION BASED ON FUZZY METHOD	Vasile ANGHEL		Oral
THE MATHEMATIC MODEL REGARDING THE ABSORPTION PROCESS OF THE AMMONIA VAPOURS IN NON-STATIONARY STATE	Sava PORNEALA	Luminița CUJBĂ	Poster
THE ALUP COMPRESSORS - THE KEY TO THE INCREASE OF THE ENERGETIC EFFICIENCY	Ioan LAZA	Andrei FERENCZ	Poster

SECTION 5. ENERGY & ECOLOGY & SUSTAINABLE DEVELOPMENT

Room 196 Chairpersons: Nichici A., Tulbure I. Secretary: Mosteoru L.

TITLE OF PAPER	AUTHOR	Co-AUTHORS	PRES.
ANALYSE DES PERFORMANCES DE L'INSTALLATION COGENERATIVES	Tănase PANAIT	Marcel DRĂGAN Alina-Ioana BALȚĂ Elena STRATULAT	Poster
COMBINED HEAT AND COLD PRODUCTION USING THE FLUE GAS THERMAL POTENTIAL	Alexandru CHISACOF	Mircea MARINESCU Sorin DIMITRIU	Oral
ENERGY SAVING AND GHG REDUCTION ASSESSMENT BY INVERSE ANALYSIS OF ENERGY PERFORMANCE FOR EXISTING BUILDINGS	Emilia CERNA MLADIN	Rodica SERBAN	Oral
ANALYSE THERMOÉCONOMIQUE DE LA MODERNISATION DE L'HABITAT	Tudora CRISTESCU	Marcela PĂTĂRLĂGEANU Silvian SUDITU Veronica BĂRSĂNEANU Adrian ZAPCIU	Poster
ENVIRONMENT POLLUTION IN OIL SUBSIDIARIES THROUGH THERMAL HANDLING SYSTEMS OF DRILLING RIGS	Marcela PĂTĂRLĂGEANU	Tudora CRISTESCU Silvian SUDITU	Poster
RECOVERED EQUIPMENT COGENERATION: CLEANER AND CHEAPER ENERGY	Mihai Cristian MILER	Victor ZUBCU Dorina Silvia ZUBCU	Poster
CONSIDERATION UPON THE COOLING PREZERVATION METHOD OF GRAINS STORAGE	Laurentiu CALIN	Mihai JADANEANT	Poster
PERFORMANCES DES PILES À COMBUSTIBLE À OXYDE SOLIDE POUR LA PRODUCTION CENTRALISÉE D'ÉLECTRICITÉ ET DE CHALEUR À PARTIR DE MÉTHANE : CAS DES SYSTÈMES HYBRIDES	Mihai RADULESCU	Olivier LOTTIN Michel FEIDT	Oral
ENERGY SAVINGS BY MEANS OF HIGH PRESSURE APPLICATIONS	Roland MEYER-PITTROFF		Poster
STUDIES REGARDING THE POLLUTION IN ROȘIA POIENI AREA	C. MUNTEAN	A. NEGREA P. NEGREA L. LUPA, R.TIG	Poster
RESEARCH CONCERNING DEVELOPMENT OF NEW TECHNOLOGIES FOR AIR QUALITY MONITORING AND NOXES IMPACTS ON HUMAN HEALTH AND ENVIRONMENT	Ioana IONEL	Sanda COTESCU	Poster
SCIENCES THERMIQUES ET L'ANALYSE DU CYCLE DE VIE DES PRODUITS	Alexandru CHISACOF		Oral
ENERGY EFFICIENCY AND ENVIRONMENT IN REFRIGERATION	Feiza MEMET		Poster
DES OPINIONES THEORETIQUES SUR L'ENERGETIQUE DU SYSTEME HYDRAULIQUE DU SOUTENEMENT MECANISE	Sorin VĂTAVU	Niculina VĂTAVU	Oral
STERILIZATION OF MEDICAL SUPPLIES BY DRY HEAT, THEORY AND PRACTICE	Liliana MOSTEORU	Mihai JADANEANT Florin MOSTEORU	Poster
AIR QUALITY MONITORING. NEW METHODS TO INVESTIGATE PM AND THEIR PROBLEMATICS	Francisc POPESCU		Poster
RURAL DEVELOPMENT OF GIROC COMMUNE	Eugen T.MAN	Cristina MODRA, Rareș HĂLBAC COTOARĂ	Oral

SOLUTIONS FOR RISKS ANALYSIS OVER THE ENVIRONMENT AND FOR AN ECOLOGICAL MANAGEMENT FOR WASTE STORAGE, AN AMOUNT OF POSSIBILITIES FOR A SUSTAINABLE DEVELOPMENT	M. ORLESCU	I. COSTESCU	Oral
TOOLS FOR AIR QUALITY ASSESSMENT: ATMOSPHERIC DISPERSION MODELLING	Mihaela BALANESCU	Ion MELINTE	Oral
LA DIMENSION ECOLOGIQUE DES SYSTEMES TECHNOLOGIQUES D'USINAGE LASER	Alexandru NICHICI		Poster
THE IMPACT ASPECTS OF THE POLLUTION FACTORS GENERATED BY METALLURGY INDUSTRY	Daniela Violeta DUMITRESCU	Steliana IVĂNESCU Petra MOȚOIU Ioachim Iuliu FODOR	Poster
CONSIDERATIONS REGARDING USING AND DEFINING ENVIRONMENTAL INDICATORS	Ildiko TULBURE		Oral
ORGANIC AGRICULTURE AND ENVIRONMENT	F.K. VOSNIAKOS		Poster
INVESTIGATION OF NATURAL RADIOACTIVITY CONCENTRATION IN BUILDING MATERIALS AND THE IMPACT TO HUMAN HEALTH	F. VOSNIAKOS	K. ZAVLARIS, T. PAPALIAGAS K. VOSNIAKOS	Poster

SECTION 6. HEAT & MASS EXCHANGE

Room 140 Chairpersons: KAKAC S., Emilia-Cerna MLADIN, NAGI M. Secretary: NEGOITESCU Arina

TITLE OF PAPER	AUTHOR	CO AUTHORS	PRES.
USING METAL FOAMS IN HEAT TRANSFER DOMAIN	Petre OPRITOIU	Teodor MADARASAN	Poster
CONTRIBUTIONS REGARDING THE EXERGETIC ANALYSIS OF HEAT EXCHANGERS	Teodor MADARASAN	Paula UNGURESAN	Oral
MODELLING OF THE HEAT TRANSFER IN AN INTERNAL COMBUSTION ENGINE USING THE THERMAL NETWORKS	Krisztina UZUNEANU	Tanase PANAIT	Poster
A STUDY OF THE SUBCOOLED FLOW REGION OF A CAPILLARY TUB - SUCTION LINE HEAT EXCHANGER	Viorel POPA	Camelia POPA, Alexandeu SERBAN	Poster
THE MATHEMATIC MODEL REGARDING THE ABSORPTION PROCESS OF THE AMMONIA VAPORS IN NON-STATIONARY STATE	Sava PORNEALA	Cujbă LUMINIȚA	Poster
THE MODELING AND SIMULATION OF THE BOILING PROCESS OF THE AMMONIA SOLUTION IN NON-STATIONARY STATE	Luminița CUJBĂ	Sava PORNEALA, Daniela NEGOIȚĂ	Poster
ENTROPY GENERATION IN TRANSIENT THERMAL CONVECTION OVER A FINITE THICKNESS PLATE	Emilia-Cerna MLADIN	Mohammed LACHI, Mourad REBAY	Oral
HEAT TRANSPORT DEVICE WITH SEPARATED PASSAGES FOR VAPOUR AND CONDENSATE RETURN FLOW	A.P.CIRTOG	S. MOCHIZUKI A. MURATA Ioana IONEL	Oral
ANALYTICAL MODELS AND HEAT EXCHANGE DATA PROCESSING METHODS	Emilian Stefan VALEA		Oral
NUMERICAL ANALYSIS OF TEMPERATURE DISTRIBUTION IN HEAT TREATMENT FURNACES	Victor HODOR	Florin BODE Paula UNGURESAN	Oral
THE CONJUGATE HEAT TRANSFER OF THE PARTIALLY HEATED MICROCHANNEL HEAT SINK	Dorin LELEA	Ioan LAZA	Oral
NUMERICAL ANALYSIS OF TRANSPORT PHENOMENA IN RECTANGULAR MICROCHANNELS	Aristotel POPESCU	Ema Carmen PANAITE Gheorghe DUMITRAȘCU James R. WELTY	Oral
TRANSFERT DE CHALEUR DANS PROCESSUS DE SOUDAGE LASER EN RÉGIME CAPILLAIRE	Remus BOBOESCU	Adelina HAN	Poster
MODELING AND SIMULATION OF GAS TREATING PROCESSES: ABSORPTION WITH CHEMICAL REACTION IN PACKED TOWERS	Teodor TODINCA	Cristian TĂNASIE Lazăr GABOR Adina CĂȚA	Oral
THE DETERMINATION OF THE CRITERIAL EQUATION IN GRAPHIC FORM FOR FLUID FLOW PERPENDICULAR ON A STAGGERED BANK OF TUBES OF ALCO 18 M2 OIL COOLER	Arina NEGOITESCU	Daniel OSTOIA Mihai NAGI	Poster

SECTION 7. ROAD & RAILWAY TRANSPORTATION

Room 134 Chairpersons: PODEVIN P., GHITA E., MOCUTA G. Secretary: STEPAN D.

TITLE OF PAPER	AUTHOR	Co-AUTHORS	PRES.
DINAMIC MODEL FOR THE SIMULATION OF A VEHICLE'S UNSTEADY OPERATION	Catalin ZAHARIA	Adrian CLENCI, Pierre PODEVIN, Georges DESCOMBES	Oral
SIMULATION DU FONCTIONNEMENT D'UN BUS A PROPULSION HYBRIDE SUR UN TRAJET DENIVELE I-ERE PARTIE. MODELISATION	Mihai MESAROS	Mircea IVANOIU, Venetia SANDU	Poster
SIMULATION DU FONCTIONNEMENT D'UN BUS A PROPULSION HYBRIDE SUR UN TRAJET DENIVELE II-EME PARTIE. SIMULATIONS ET RESULTATS	Mihai MESAROS	Mircea IVANOIU, Venetia SANDU	Poster
THE CONCEPTION OF UNDERFRAMES MECHANOWELDING BOGIES OF STEEL FOR THE HIGH SPEED TRAIN FRAMES	Cristian - Ioan DAMIAN		Oral
THE REVISION AND REPAIR OF THE TRAIN AXLE BOXES	Cristian - Ioan DAMIAN		Poster
TECHNICAL REVISION FOR HEAVY RAILWAY MACHINES	Cristian - Ioan DAMIAN		Poster
THEORETICAL AND EXPERIMENTAL ASPECTS CONCERNING THE WHEEL –RAIL CONTACT ANALYSIS IN THE RAILWAY TRANSPORT	E. GHITA	G.URSU, D.STEPAN	Oral
SIMULATION ASSISTE PAR L'ORDINATEUR DE MECANISME DE PROTECTION CONTRE LE CHOC ENTRE 2 VOIES FERROVIAIRES	L.I. DUNGAN	P. PAP M. CATRINA	Oral
RAILWAYS AS INTERFERING ELEMENT IN GOODS TRAINS TRACTION	Georgeta Emilia MOCUȚA		Oral
STUDY OF THE OPTIMUM WAY IN THE WORKING SPACE THAT EQUIPS A FLEXIBLE FABRICATION CELL FOR THE CARRYING STRUCTURE COMPONENTS OF A RAILWAY VEHICLE	Georgeta Emilia MOCUȚA		Poster
MODELLING BRAKING REGIME OF THE HIGH SPEED GOODS TRAIN	P. PAP	L.I. DUNGAN	Oral

SECTION 8. RECYCLING

Room SMC Chairpersons: BARGLAZAN M., DUMITRASCU G. Secretary: MNERIE A.

TITLE OF PAPER	AUTHOR	CO-AUTHORS	PRES.
PLASMA - CHEMICAL TREATMENT OF SYSTEMS CONSISTING OF NATURAL PHOSPHATE, PHOSPHOGYPSUM AND FLOTATION WASTE THROUGH THERMODYNAMIC INVESTIGATION	K. OUZOUNOV	G. VISSOKOV I. GRANCHAROV L. BRAKALOV	Poster
STUDIES ABOUT THE SEPARATION PROCESS OF IRON AND ZINC IONS FROM RESIDUAL SOLUTIONS RESULTED FROM DEZINCING PROCESS	L. LUPA	A. IOVI P. NEGREA A. NEGREA, C. MUNTEAN B. GYARFAS	Poster
STUDIES ABOUT NICKEL IONS ELIMINATION FROM RESIDUAL WATERS RESULTED FROM NICKEL COAT BATHS	P. NEGREA	A. NEGREA C. MUNTEAN L. LUPA M. ANTONESCU	Poster
STUDIES ABOUT COPPER IONS ELIMINATION FROM RESIDUAL WATERS	A. NEGREA	L. LUPA P. NEGREA C. MUNTEAN A. GUȘETOIU	Poster
THEORETICAL AND EXPERIMENTAL STUDIES FOR OBTAIN CARBIDE AND CHROMIUM NITRIDE FROM CR(CO) ₆ BY CHEMICAL VAPOR DEPOSITION UNDER ATMOSPHERIC PRESSURE	Sorin GHERGHINESCU	Francis MAURY Alain GLEIZES	Poster
THE DAMAGE OF INSTALLATION COMPONENTS IN WATERS SATURATED WITH H ₂ S	Traian FLESER		Poster
RECYCLING OF THE AUXILIARY PRODUCTS AND OFFALS FROM CANS INDUSTRY OF FRUIT AND VEGETABLES	Mihaela NISTORAN BOTIS		Poster
THE REUSE BY RECYCLING OF INDUSTRIAL WASTEWATERS FROM IRON MAKING INDUSTRY	Ecaterina MATEI	Dorina SAVIN	Poster
MATERIALS CLOSED CIRCUIT BASED ON RECYCLING FOR STEELMAKING IN ELECTRIC ARC FURNACE (EAF)	Cristian PREDESCU	Mirela SOHACIU	Oral
TECHNOLOGIC AND ENVIRONMENTAL ASPECTS OF POLYESTER-GLASS FIBER COMPOSITES ND:YAG LASER CUTTING	Ramona LASLĂU	Eugen CICALĂ	Poster
RESEARCHES OF RECYCLING ROMANIAN SECONDARY ALUMINUM INDUSTRY BY- PRODUCTS	Maria ROMAN	V. BĂDILIȚĂ Romanița TEODORESCU Ioan MĂRGINEAN Monica FĂGĂRĂȘANU L. MĂRGINEAN	Oral
PRELIMINARY RESEARCHES TO UTILIZE THE DROSS AND ASHES OF SECONDARY ALUMINIUM INDUSTRY AT MOULDING MIXTURE	Ioan MĂRGINEAN	Liviu-Ștefan MĂRGINEAN Maria ROMAN Lucia FIRESCU	Poster
SCHEMA À DIFFÉRENCES FINIES À DÉCOMPOSITION UTILISÉE DANS L'ÉTUDE DE LA SOLIDIFICATION DES PRISMES CARRÉES	Bogdan HORBANIUC	Gheorghe DUMITRAȘCU	Poster
IDENTIFICATION OF THE POLLUTION SOURCES OF LOST FOAM CASTING AND THE REDUCING METHODS OF THOSE	Ioan MĂRGINEAN	Simona AVRAM Lucia FIRESCU	Oral

NOXIOUS EFFECTS			
MATHEMATICAL SIMULATION OF THE MILLER'S CYLINDERS OVERHAUL THROUGH INDUCTIVE PREHEATING TURNING	Mihai GHITA	Florin STOICOIU Claudia DÎRPEȘ Aurel BREȘTIN	Poster
RECYCLING AS A SISTEM FUNCTION IN THE ZONE OF METALLURGICAL PROCESSES AND THEIR MANAGEMENT	Maria NICOLAE	Cristian DOBRESCU Irina VÎLCIU Avram NICOLAE	Poster
THE ANALYZE OF PLASTIC MATERIAL BEHAVIOR IN THE PROCESS OF MILLING FOR RECICLYNG – OPPORTUNITIES AND THREADS	Dumitru TUCU	Dumitru MNERIE Vasile ROTĂRESCU Gabriela ANGHEL	Oral

SECTION 9. EDUCATION LEGISLATION & TRAINING ENVIRONMENTAL

Room SMC Chairpersons: Tr. FLESER, P. NEGREA, Secretary: Mnerie A.

TITLE OF PAPER	AUTHOR	AUTHORS	PRES.
THE AIR QUALITY CONTROL BY CAPTURING GASES AND VAPORS	D.aniela NEGOITA	L. CUJBA. I.V. ION	Oral
EDUCATION DURABLE, LE POINT DE DEPART DANS LE DEVELOPPEMENT DURABLE	Mircea IVANOIU		Poster
LEGAL REGULATIONS TO PROMOTE REDUCTION OF CO2-EMISSIONS IN GERMANY	Ulrich BUCHHAUSER		Poster
SOME CONTRIBUTION TO PROJECT "WEES – WORKING IN THE EUROPEAN ENVIRONMENTAL SYSTEM"	Nadia POTOCEANU	Rainer Gilbert GILLICH, Marius Gheorghe CORNEAN	Poster
EDUCATIONAL ASPECTS OF ENVIRONMENTAL PROTECTION PROJECTS	Venetia SANDU		Poster
ENVIRONNEMENT. SYSTEMES DE MANAGEMENT ET FISCALITE APPLICABLE	Cristian FICA	Cristina FICA	Oral
PROCEDURE FOR SYSTEMATIC ANALYSIS OF THE POTENTIAL IMPACT AND RISKS REGARDING THE LOCATION OF A DEALLOCATED PLANT	Lavinia POPESCU	Marinela PETRESCU Dumitru IORDACHE Gheorghe PĂSCĂLIN	Poster
THE ROMANIAN COMMERCE WITHIN THE CONTEXT OF THE EUROPEAN INTEGRATION	Dina Maria LUȚ	Petru NEGREA	Oral
THE HEART RATE MONITORING IN THE LESSONS OF AEROBIC GYMNASTICS WITH THE STUDENTS OF THE U.P.T. WITH RESPECT TO IMPROVING THE CARDIO-VASCULAR FUNCTION, THE RESPIRATORY ONE AND THE OPTIMAL ADJUSTMENT OF THE BODY TO EFFORT	Bogdan ALMĂJAN-GUȚĂ		Poster

SECTION 10 - RENEWABLE ENERGY SOURCES

Room 150 Chairpersons: RUSS W., PARASCHIV M. Secretary: GRUESCU V.

TITLE OF PAPER	AUTHOR	Co-AUTHORS	PRES.
THE ENERGETIC USE OF SUNFLOWER HUSKS GASIFICATION	Tănase PANAIT	Elena STRATULAT Alina-Ioana BALȚĂ Krisztina UZUNEANU	Poster
PERFORMANCE INVESTIGATION OF A SOLAR AIR COLLECTOR	Ion V. ION	Jorge MARTINS	Poster
INFLUENCE OF PARTICLES SIZE ON BIOMASS PYROLYSIS PRODUCTS	Maria PARASCHIV	GABRIELA DINU, LUC GERUN, MOHAND TAZEROUT, JÉRÔME BELLETRE, BERNARD LEMOULT	Oral
BIOFUEL FROM ANIMAL FATS	Maria PARASCHIV	Mohand TAZEROUT	Oral
BIOMASS GASIFICATION OF EUCALYPTUS RED GUM	Davide ROSS	Reiji NODA, Kazuo NISHI, Nao TANAKA Masayuki HORIO	Oral
FATTY ACID METHYL ESTERS (FAME) FROM ANIMAL FAT AS FUEL FOR COMBUSTION ENGINES	Nils WINTHUIS		Poster
BIO-ETHANOL FROM LIGNO-CELLULOSIC BIOMASS IN BAVARIA – A FEASIBILITY STUDY	Dominik ANTONI		Poster
STOCKAGE D'ÉNERGIE SOLAIRE PAR CHALEUR LATENTE PRISE EN COMPTE DES VARIATIONS DU FLUX SOLAIRE POUR LE DIMENSIONNEMENT DU SYSTÈME	T. KOUSKSOU	F. STRUB, J. CASTAING-LASVIGNOTTES, J.P. BEDECARRATS	Oral
STUDY REGARDING THE UTILIZATION OF VEGETABLE OILS AS DIRECT REPLACEMENTS FOR DIESEL FUEL IN COMPRESSION IGNITION ENGINES	Dan SCARPETE	Irina-Gabriela ROSCAN	Oral
POSSIBILITIES OF USING THE SOLAR ENERGY FOR THE CARBON DIOXIDE REDUCTION	Diana SILAGHI		Poster
BASIC SOFTWARE FOR THE THERMAL ENERGY DEMAND ANALYSIS OF A HOUSEHOLD USING SOLID BIOMASS AS ENERGY SOURCE	Teodora CHIRA	Mugur BĂLAN	Oral
BIOMASS, SOURCES OF ENERGY FOR RURAL HOUSEKEEPING	Ion MIREL	Eugen MAN Daniela POPESCU, Katalin BARABÁS	Oral
PERFORMANCE OF PHOTOCATALYTIC HYDROGEN PRODUCTION BY SPLITTING WATER OVER PHOTSENSITIZATION OF Na ₂ Ti ₂ O ₄ (OH) ₂ NANOTUBE BY CdS NANOPARTICLES	Chanjun XING	Liejin GUO Guangsheng ZHANG	Poster
WASTEWATER TREATMENT PLANT RESIDUAL SLUDGE UTILIZATION AS A POTENTIAL UNCONVENTIONAL ENERGY SOURCE	Elisabeta PENA LEONTE	Cornel CRAIU, Margareta NICOLAU, Cristian TEODORESCU, Costel BUMBAC	Oral
CONSIDERATIONS REGARDING THE ENERGY REVALUATION OF GEOTHERMAL WATERS IN THE WEST OF ROMANIA	Ion MIREL	Mihaela-Ana MITRAȘCĂ Emilia-Valentina PANTEA Daniela-Mariana ABRUDAN	Oral



WORKSHOP

in the frame of the Sixth Framework Programme Integrated European Network for Biomass Co-firing

Friday, 16.06.2006, 150 Room, Fac for MECHANICAL Engineering, Univ. Politehnica Timisoara

NETBIOCOF

www.netbiocof.net

Chairpersons: G. SCHORIES, Ioana IONEL, Secretary: Cl. GRUESCU, G. TRIF –TORDAI

INTRODUCTION TO NETBIOCOF	Gerhard SCHORIES Bárbara DE MENA Ioana IONEL	9.15 – 9.45
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TITLE OF THE PRESENTATION	AUTHOR	CO-AUTHORS	TIMETABLE
BIOMASS UTILISATION IN ROMANIA	Ioana IONEL	Gavrilă TRIF-TORDAI Vasile Sevastian GRUESCU Adrian ȚENCHEA	9.45 – 10.15
BIOMASS AS A RENEWABLE ENERGY RESOURCE IN ROMANIA	Ioana IONEL	Francisc POPESCU Corneliu UNGUREANU Gavrilă TRIF-TORDAI	9.45 – 10.15
MODERNIZATION OF A THERMAL POWER PLANT BY SWITCHING TO BIOMASS-COAL CO-COMBUSTION	Mihu GIRJOABA	Ioana IONEL, Anca DITA, Marius HOARA, Adrian TENCHEA, Vasile GRUESCU, Ilie SCHINTEE, Ioana PARVULESCU	10.15 – 10.45
IDENTIFICATION OF SUCCESSFUL EXPERIENCES AND BEST PRACTICE POTENTIAL IN ROMANIA	Ioana IONEL	Gabriel TRIF, Carmencita CONSTANTIN, Madalina ANASTASIU, Marian DOBRIN Mihu GARJOABA , Nicolae LONTIS	10.45 – 11.00
CO-COMBUSTION OF BIOMASS IN A ROMANIAN FLUIDISED BED COMBUSTION FACILITY	Ioana IONEL	Alexandru SAVU Vasile GRUESCU Gavrila TRIF-TORDAI Adrian ȚENCHEA Corneliu UNGUREANU	10.45 – 11.00
COFFEE BREAK			11.00 – 11.20
FOOD WASTE AS A RENEWABLE ENERGY SOURCE	Winfried RÜß		11.20 – 11.45
EFFICIENT UTILISATION OF BIO-ENERGY IN BLOCKHOUSE ELECTRICAL THERMAL POWER STATIONS AS WELL AS IN COMBUSTION ENGINES With Film presentation	Alex. REICHARDT		11.45 – 12.20
TECHNICAL AND ECONOMIC POTENTIAL OF NOVEL TECHNOLOGIES FOR THERMAL BIOMASS UTILIZATION	Tobias PRÖLL	Reinhard RAUCH Hermann HOFBAUER	12.20 – 12.50
Lessons learned. Conclusions. Discussions			

Under the auspices of the Romanian Society of Thermodynamics Engineers (SRT)

Round table With the topic

“Efficience énergétique des bâtiments: ou sommes nous ?”

Chairwoman: Prof.dr.ing. Ana-Maria Bianchi

Persons involved:

Prof.dr.ing. Ana-Maria BIANCHI (UTCB, vice-president of the SRT)

Conf.dr.ing. Emilia CERNA MLADIN (UPB)

Conf.dr.ing. Gratiela Maria TARLEA (UTCB)

Prof.dr.ing. Robert GAVRILIUC (UTCB)

Ing. Ioan Silviu DOBOSI (DOSETIMPEX Timisoara)

Discussions and comments will be free following the topics:

- **Directive 91 - CE;**
- **Co and three-generation with the ecological and energetic improved techniques;**
- **Thermal pumps with recuperative energy;**
- **Energy savings in buildings;**
- **The high technical education and energy efficiency experts;**

REGISTRATION DESK

**In charge: Emilia Georgeta MOCUTA
Adelina HAN
Ramona LASLAU**

Room 169, 1st floor – New building

Time table

Wednesday (14.06.2006):	16:30 – 18:30
Thursday (15.06.2006):	07:30 – 09:00
Friday (16.06.2006):	07:30 – 09:00

Please bring your presentation(s) in Power Point on CD at the Registration Desk at least Thursday morning, for putting them into the computers for the oral presentations.

Sorry, we have no possibility to use floppy or removable disks.

POSTER PRESENTATIONS

ACCOMPLISHED DURING THE MENTIONED SESSIONS AND ALSO DURING THE REGULAR SESSIONS, IF TIME AVAILABLE

**Maximum available space for poster: 1 x 0.8 m
(Preferable on colored paper)**

In Charge: Casian BULZ, Gavril BRATEANU, Sorin SERESCU