

PROGRAMUL CONFERINȚEI ȘTIINȚIFICE

UgalMat 2011

Locul de desfășurare: UNIVERSITATEA „DUNĂREA DE JOS” din GALAȚI

VINERI 21 OCTOMBRIE 2011

9⁰⁰ - 10⁰⁰: Primirea invitațiilor

Sala de Festivități - etaj I, Corpul M, strada Domnească nr.111

10⁰⁰ - 11⁰⁰: Deschiderea manifestării științifice

Prof.dr.Viorel MÎNZU, Rector al Universității Dunărea de Jos din Galați

**Prof.dr. Nicolae CĂNĂNĂU, Decan al Facultății de Metalurgie, Știința
Materialelor și Mediu, Universitatea Dunărea de Jos din Galați**

Discursuri invitați

**Acordarea premiului pentru rezultate deosebite la învățătură studentei
Novac Florentina Teodora, anul IV Ingineria mediului**

**11³⁰ - 12⁰⁰: Acordarea titlului de PROFESOR ONORIFIC al Univesității Dunărea de Jos din
Galați domnului prof.dr. Strul MOISA, Universitatea Ben Gurion,
Negev, Israel**

Prezentare carte ”Biblia și Metalurgia” - autor: prof. Strul Moisa

12⁰⁰ - 13³⁰: Susținere lucrări - în plen

-prof.dr.ing. Iulian Ripoșan - Heterogeneous Graphite Nucleation Sites in Ductile Iron,
autor: Iulian Ripoșan, Universitatea Politehnica Bucuresti

-drd.ing. Stefan Balta - Nanofiltration Membranes Enhanced with Nanoparticles, autori:

¹Stefan Balta, ¹Lidia Benea and ²Bart Van der Bruggen, ¹Universitatea Dunarea de Jos Galati,

²Katholieke Universiteit Leuven, Belgium.

**-drd.ing. Ioan-Bogdan Diaconu: Si Thin Films with Applications in Photovoltaic
Devices,** Universitatea Dunarea de Jos Galati

13³⁰ - 14³⁰: Pauză de masă

**14³⁰ - 15³⁰: Masă rotundă: Pregătirea, susținerea publică și confirmarea tezelor de doctorat,
moderator prof.dr.ing. Iulian Ripoșan, vicepreședintele Comisiei**

Ingineria materialelor si nanotehnologie - CNATDCU

Decanat, Corpul M, parter, str. Domnească nr.111

15³⁰ – 18³⁰: Prezentare lucrări pe secțiuni. Discuții. Secțiune postere

Corpul M, Sălile M213, M214, etaj II, str. Domnească nr.111

19⁰⁰: Masa colegială

Cantina nr. 2, Complexul studentesc “Al. I. Cuza”

SÂMBĂȚĂ 22 OCTOMBRIE 2011

8³⁰ – 9³⁰: Prezentare lucrări pe secțiuni. Discuții. Concluzii.

10⁰⁰ – 12⁰⁰: Excursie cu vaporul pe Dunăre - seria I

12⁰⁰ – 14⁰⁰: Excursie cu vaporul pe Dunăre – seria a II-a

SECTION I. PROCESSES, TECHNOLOGIES AND EQUIPMENT IN METALLURGY

1. COOLING RATE DEPENDENCE OF STRUCTURES CHARACTERISTICS IN Ce - INOCULATED LOW-S GREY IRONS

Irina Varvara ANTON, Iulian RIPOSAN

2. RELATIVE PERFORMANCE OF Ca, Ba-FeSi INOCULANTS TO CHILL CONTROL IN LOW-S GREY CAST IRONS

Costin Bogdan ALBU, Iulian RIPOSAN

3. QUALITY ASSESSMENT OF COVERED MATERIALS BY INFRARED THERMOGRAPHY

Alexandrina MIHAI, Florin ȘTEFĂNESCU, Gigel NEAGU

4. SYNTHESIS AND SPHEROIDIZATION OF DISPERSE HIGH-MELTING (REFRACTORY) POWDERS IN PLASMA DISCHARGE

Rositsa GAVRILOVA, Viktor HADZHIYSKI

5. METALLIC MATRIX COMPOSITES WITH CERAMIC PARTICLES. WETTING CONDITIONS

G. NEAGU, Fl. ȘTEFĂNESCU, A. MIHAI, I. STAN, I. ODAGIU

6. FEM ANALYSIS OF SPUR GEARS PRESS – ROLLING PROCESS

Ionuț MARIAN, Monica SAS-BOCA, Luciana RUS, Marius TINTELECAN, Ramona – Crina SUCIU, Dan Noveanu, Liviu NISTOR

7. A DESIGN OF NEW BRANDS OF MARTENZITE STEELS BY ARTIFICIAL NEURAL NETWORKS

Yavor LUKARSKI, Sasho POPOV, Nikolay TONCHEV, Petia KOPRINKOVA-HRISTOVA, Silvia POPOVA

8. THEORETICAL AND PRACTICAL ASPECTS CONCERNING THE UNIDIRECTIONAL SOLIDIFICATION OF ALUMINIUM ALLOYS

Florin ȘTEFĂNESCU, Gigel NEAGU, Alexandrina MIHAI, Iuliana STAN, Iuliana ODAGIU

9. PROPERTIES OF SLAGS IN THE SYSTEM CaO-MgO-Al₂O₃-SiO₂ IMPORTANT IN DEOXIDIZATION AND DESULPHURIZATION OF LOW CARBON ALUMINIUM KILLED STEELS

Petre Stelian NITA

10. REDUCTION OF ENERGY CONSUMPTION FURNACES HEAT TREATMENT

Mihai UDRIȘTE, Dorian MUSAT, Aurel GABA

11. EXPERIMENTAL BOOTH FOR DETERMINING GAS FLOW USING LOCAL HEATING TRANSITORY REGIME

Vlad JINGA, Cornel SAMOILĂ, Doru URSUȚIU

12. AN EFFICIENT TECHNOLOGY TO OBTAINING THE ALUMINIUM MASTER ALLOYS WITH REACTIVE ELEMENTS FOR ADVANCED REFINING OF THE FERROUS BATHS

Anisoara CIOCAN

13. WAYS OF WORKING THE DATA OBTAINED THROUGH SEM TECHNOLOGY

Viorel ENE, Laura RAB1, Dan NIȚOI, Marius BENȚA

14. FLUX AGGLOMERATED FOR CHARGING WITH CIF OF SOME SURFACES RESISTANT TO USAGE

Gabriela STANCIU, Emilia BINCHICIU, Cornel Eugen SERBAN

15. PHOSPHATE PASSIVATION SOLUTIONS ENHANCED BY CHEMICAL ADDITIVES FOR TREATMENT OF THE HOT DIP GALVANIZED STEEL

Anișoara CIOCAN, Tamara RADU

16. CONTRIBUTIONS ON THE TECHNOLOGY OF GENERATING THE COMMERCIAL TITANIUM POWDER

Mihaela Gabriela MOSNEAG (MUNTEANU), Adrian SOICA

17. Cu-Ag-REAR METALS FOR WIRES: PROCESSING AND CHARACTERISATION

C. IORDACHE, M. STOICA, S. MOHSEN, M. VLAD

18. STUDY ON THE FINNING PROCESS DEFORMATION

Nicolae CANANAU, Ovidiu DIMA, Dinel TANASE

19. SPECTROPHOTOMETRIC DETERMINATION OF Os(VIII) WITH NITROSO R SALT AS CHROMOGENIC REAGENT

Rodica WENKERT, Carmen PADURARU, Lavinia TOFAN, Strul MOISA

20. EXPERIMENTAL RESEARCHES ON THE LOBE DEFORMATION PROCESS

Ovidiu DIMA, Nicolae CANANAU, Dinel TANASE

21. THE PRE-BIBLICAL METALLURGICAL ART ON THE BIBLICAL TERRITORY

Strul MOISA, Rodica WENKERT

22. STUDY AND RESEARCHES ON THE HOLE BORDER PROCESS

Nicolae CANANAU, Ovidiu DIMA, Dinel TANASE

23. INFLUENCE OF ECAP PASSES ON SPD PROCESS PARAMETERS AND MATERIAL PROPERTIES

Gheorghe GURAU, Carmela GURAU, Nicolae CANANAU, Florentina POTECASU

24. INCREASING THE SLABS QUALITY BY IMPROVING THE CONTINUOUS CASTING TECHNOLOGY

Beatrice TUDOR, Viorel DRAGAN, Anisoara CIOCAN

25. INTEGRATED ANALYTICAL STUDY FOR THE SOMES METALIC ARTEFACT DISCOVERY IN IBIDA SITE, ROMANIA

Viorica VASILACHE, Dan APARASCHIVEI, Ion SANDU, Violeta VASILACHE, Ioan Gabriel SANDU

26. POSSIBILITIES TO INCREASE THE DURABILITY OF THE STEELS OVERLAPPING A MAGNETIC FIELD IN THE CONVENTIONAL HEAT TREATMENT BEFORE THERMO-CHEMICAL TREATMENT

Carmen-Penelopi PAPADATU

27. FINITE ELEMENT ANALYSIS OF EQUAL CHANNEL ANGULAR PRESSING OF Al-Mg 5083 ALLOY

Radu COMANEI, Costel ROMAN, Romeu CHELARIU, Ioan CARCEA

SECTION II. ENVIRONMENTAL ENGINEERING, SURFACE ENGINEERING, ADVANCED MATERIALS

1. SURFACE ANALYSIS OF PES FIBRES TEXTILE SUPPORT, BY ZETA POTENTIAL MEASUREMENT

Gianina BROASCA, Christine CHAMPAGNE, Daniela FARIMA, Mihai CIOCOIU, Mirela IORGOAEA, Narcisa VRINCEANU

2. TWO STEPS FOR AN ENVIRONMENTAL FRIENDLY PROPULSION ENGINE

Edward RAKOSI, Gheorghe MANOLACHE, Sorinel TALIF, Florin POPA

3. STUDY CONCERNING THE INORGANIC FUELS MIXTURES INFLUENCES IN ORDER TO REDUCE VEHICLES PROPULSION ENGINES EMISSIONS

Eugen GOLGOTIU, Edward RAKOSI, Gheorghe MANOLACHE, Florin POPA

4. PRODUCT LIFE CYCLE ASSESSMENT, A SELECTION TOOL IN ENVIRONMENT MANAGEMENT AND PERFORMANCES MEASUREMENT

Carmen DOBRIN

5. MICROWAVE SINTERING OF METAL-CERAMIC HYBRID COMPOSITES

Corina Gabriela MORARU (EȘANU), Ionuț Bogdan ROMAN, Cornel Eugen ȘERBAN

6. REGENERATION OF USED ENGINE LUBRICATION OIL BY SOLVENT EXTRACTION. THE INFLUENCE OF THE SOLVENT TO OIL RATIO

Ancaelena Eliza STERPU, Anca Iuliana DUMITRU, Anișoara Arleziana NEAGU

7. SYNTHESIS AND CHARACTERISATION OF Ag/SnO₂/CLAY NANOCOMPOSITES WITH POTENTIAL APPLICATION AS PHOTOCATALYSTS

Claudia-Mihaela HRISTODOR, Diana TANASA, Narcisa VRINCEANU, Violeta-Elena COPCIA, Aurel PUI, Eveline POPOVICI

8. A COMPARATIVE APPROACH TOWARDS THE DEGRADATIVE POTENTIAL OF TWO DIFFERENT NANOPHOTOCATALYSTS ONTO A MODEL TEXTILE DYE

Diana TANASA, Narcisa VRINCEANU, Claudia-Mihaela HRISTODOR, Eveline POPOVICI, Diana COMAN, Florin BRINZA, Ionut Lucian BISTRICIANU, Daniela Lucia CHICET

9. INVESTIGATING AND OPTIMIZATIONS SOLUTION BY MEANS OF SCANNING TYPE SENSOR-SURFACE

Elena ACHINIȚEI, Lucica Mirela BERCAN, Csilla FARKAS, Marius BENȚA

10. THE INFLUENCE OF SURFACE MORPHOLOGY INVESTIGATED VIA SEM UPON THE MECHANICAL PROPERTIES OF STAINLESS STEEL SAMPLES

Adina AGACHE, Marius BENȚA

11. OPPORTUNITIES TO ANALYSE THE POLLUTION IN METALLURGICAL INDUSTRY

Avram NICOLAE, Cristian PREDESCU, Andrei BERBECARU, Maria NICOLAE

12. A STUDY OF THE REMOVAL CHARACTERISTICS OF Cu(II) FROM WASTEWATER BY ASPERGILLUS ORYZAE

Claudia Maria SIMONESCU, Romulus DIMA, Aurelia MEGHEA, Victor PĂUNESCU, Laurențiu PARASCHIV .

13. ENVIRONMENTAL RISK ASSESSMENT ON COKE PLANT DECOMMISSIONING

Lucica BALINT, Tamara RADU, Simion Ioan BALINT

14. BIOSORPTION CHARACTERISTICS OF PENICILLIUM HIRSUTUM BIOMASS FOR REMOVAL OF Cu(II) IONS FROM AQUEOUS SOLUTION THAT CONTAINS CuS NANOPARTICLES

Claudia Maria SIMONESCU, Romulus DIMA, Mariana FERDEȘ, Gheorghe FLOREA, Elena PARASCHIV, Teodora CUCU

15. INVESTIGATION OF LAYERS METAL ATOMIC FORCE MICROSCOPY

Laura RAB, Viorel ENE, Vlad ZEGREAN, Violeta VASILACHE, Marius BENȚA

16. RISK FACTORS IN THE ELECTRO-DEPOSITION OF METALLIC MATERIALS

D.C. VLADU (RADU), M.D. GAVRIL (DONOSE), C. GHEORGHIES

17. THE IMPACT OF REFRIGERANT AGENTS ON THE ENVIRONMENT

Mircea Viorel DRAGAN, Violeta Crina DRAGAN

18. THE INFLUENCE OF ELECTRODEPOSITION PARAMETERS ON OBTAINING NICKEL-SILICON COMPOSITE LAYERS

Gina Istrate, Lucica Balint, Olga Mitoşeriu, Simion Balint

19. COMPARATIVE STUDY ON THE UNCONVENTIONAL SOURCES OF POWER GENERATION

Stefan DRAGOMIR, Marian BORDEI

20. EFFECT OF FLUIDIZED- BED CARBURIZING ON MECHANICAL PROPERTIES AND ABRASIVE WEAR BEHAVIOR OF SINTERED STEELS

Mihaela MARIN, Florentina POTECAŞU, Elena DRUGESCU, Octavian POTECAŞU, Petrică ALEXANDRU

21. SPECTROMETRY AND SEM ANALYSIS APPLIED OF TiN AND Ti (C, N) THIN FILMS COATED VIA PNCVD

Stela CONSTANTINESCU

22. OBTAINING AND CHARACTERIZING TIN-LEAD COATINGS ON STEEL BAND

Tamara RADU, Anisoara CIOCAN, Maria VLAD, Stela CONSTANTINESCU

23. MORPHOLOGY OF NICKEL MATRIX COMPOSITE COATINGS WITH NANO- SILICON DISPERSION PHASE

Gina ISTRATE, Petrica ALEXANDRU, Olga MITOSERIU, Mihaela MARIN

24. DETERMINATION OF FRICTION COEFFICIENT AT SLIDING INDENTATION OF LASER CLADDING WITH Ni – Cr – B – Fe – Al ALLOY

Simona BOICIUC, Constantin SPÂNU

25. STRUCTURAL STUDY OF EXTRUDED CuAl13Ni4 SHAPE MEMORY ALLOY

F. M. Braz FERNANDES, Carmela GURAU, K. K. MAHESH, R. J. C. SILVA, Gheorghe GURAU

26. A POSSIBILITY TO DECREASE THE SINTERING TEMPERATURE OF CORUNDUM CERAMICS

Vladimir PETKOV, Radoslav VALOV, Dimitar TEODOSSIEV, Ina YANKOVA

27. RESEARCHES ON WASTE PROCESSING CELLULOSIC MATERIALS BY PYROLYSIS PROCESS

Ana DONIGA, Dumitru DIMA, Paula POPA, Elisabeta VASILESCU

28. STUDY ON CHARACTERIZATION AND SPA TOURISM POTENTIAL THE RESORT SARATA MONTEORU BUZAU COUNTY

Ana DONIGA