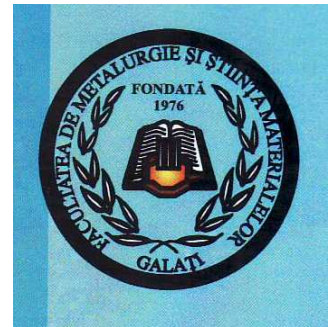




**“DUNĂREA DE JOS” University of Galați
Faculty of Metallurgy and Material Science**

**ARTCAST 2010
5th INTERNATIONAL CONFERENCE**

**CASTING, FROM RIGOR OF TECHNIQUE TO ART
MAY 14-15, 2010 GALAȚI, ROMANIA**



În perioada 14-15 mai 2010 la Universitatea “DUNĂREA DE JOS” Galați a avut loc cea de a 5 – a CONFERINȚĂ INTERNAȚIONALĂ - ARTCAST 2010 – TURNĂTORIA, DE LA RIGOAREA TEHNICII LA ARTĂ. Lucrările prezentate în plen au fost tipărite într-un volum la editura “Galati University Press, editura Universității “Dunărea de jos”, volum ce se găsește și la biblioteca ATTR din cadrul Universității Politehnica București.

Lucrările prezentate în plen au fost:

SECTION I

- 1. I. SANDU, O. MIRCEA, I. SARGHIE, A.V. SANDU, C. MARIAN, V. VASILACHE** - Applications of non-invasive techniques in the analysis of corrosion crusts formed on archaeological metal object.
- 2. Anisoara CIOCAN, Florentina POTECAȘU** - Scrap quality and metallurgical effects associated with copper and tin as tramp elements in the casting steels
- 3. Olivier DUHAMEL, Denyo ALIPIEV** - ART CASTING: foundries in internet and some applications
- 4. Tamara RADU, Florentina POTECAȘU** - Decorative surfaces obtained through thermal zinning
- 5. Gheorghe FLOREA, Daniela BURUIANA (NEGOITA), Alexandru CHIRIAC, Adrian VASILIU** - The exploitation of the copper sheet wastage in applied art
- 6. Ana DONIGA** - Artifacts in the getae-dacian treasures.
- 7. Stefan DRAGOMIR, Alexandru CHIRIAC** - Alloys used at decorative parts inside the airplanes.
- 8. Gheorghe CROITORU, Ion RUSU** - History of Faberge egg.
- 9. Julieta Daniela SABAU (CHELARU), Vasile Filip SOPORAN, Ovidiu NEMES** – Time analysis of king Matthias the 1st sculptural group
- 10. Florin CHICHERNEA, Alexandru CHICHERNEA** - Value analysis between art and technique – Part I
- 11. Florin CHICHERNEA, Alexandru CHICHERNEA** - Value analysis between art and technique - Part II
- 12. Aurelia STANESCU, Alexandru STANESCU, Bogdan FLOREA** - Making art replica models using 3D scan and electrodepositing
- 13. Petrica HAGIOGLU, Constantin GHEORGHIES** - Materials used for manufacturing some objects from 1600 before Christ - 500 after Christ period
- 14. Beatrice TUDOR, Marian BORDEI** - Art works casting using wax patterns
- 15. Viorel ENE, Tibor BEDO, Marius BENTA** - The main data about the "big bell" of the black church in Brasov
- 16. Viorel ENE, Tibor BEDO, Marius BENTA** - 27 march 2009 - 150 years from the blessing of the "big bell" of black church in Brasov
- 17. Elena PARASCHIV, Victor PAUNESCU, Cristina RADUCAN** - Sculpture, extended nature
- 18. Daniela BURUIANA (NEGOITA), Gheorghe FLOREA, Alexandru CHIRIAC** - The process involved in making the medals
- 19. Stefan DRAGOMIR, Gheorghe FLOREA** - Use of unconventional materials to obtain pieces of urban art
- 20. Tibor BEDO, Viorel ENE, Ioan CIOBANU** - Sanitary silicone used to make small art cast parts
- 21. Adrian VASILIU, Daniela BURUIANA (NEGOITA)** - Do birds represent a menace to outdoor monuments?
- 22. Ana DONIGA, Miltiade ISTRATE** - Artifacts protection coatings
- 23. I. SANDU, C. BEJINARIU, A.V. SANDU, V. VASILACHE, I.G. SANDU, M. BRANZILA** - Obtaining and characterization of vitroceraam by chemical doped ZNO for art mosaic
- 24. Beatrice TUDOR, Daniela BURUIANA** - Vacuum casting of objects made of precious materials
- 25. G. FLOREA, C. OANCEA, C. GHEORGHIES** - New achievements in manufacturing of church bells
- 26. Bogdan FLOREA, Cezar BALESCU, Vasile MIREA, Augustin SEMENESCU** - studies regarding the achievement of light fuse models for casting the art objects
- 27. Ana DONIGA** - Weapons as work of art

SECTION II

- 28. Yavor LUKARSKI, Jordan GEORGIEV, Lubomir ANESTIEV, Rositsa, GAVRILOVA, Simona BEJAN** - Investigation of titanium hydride produced from titanium waste
- 29. Simona BOICIUC, Elena Drugescu** - Research on abrasive wear behavior of laser cladding layers with high - speed steel powder type HS6 -5-2-M2

30. **Nicolae CANANAU, Gheorghe GURAU, Carmela GURAU** - Study on the material flow at the Ecae process
29. **Tamara RADU, Lucica BALINT, Maria VLAD** - Research on the complex microalloyed zinc melts
30. **Alexandru CHIRIAC, Maria VLAD, Stefan DRAGOMIR, Gheorghe FLOREA** -Contributions to the study of some special materials from the Al-Mn-Fe system
33. **Anna PETROVA, Silvia SIMEONOVA, Radoslav VALOV, Vladimir PETKOV** - Physico-mechanical and physico-chemical properties of bio-inert composite ceramics
34. **Tibor BEDO, Viorel ENE, Ioan CIOBANU** - Some considerations on environmental sand cores with inorganic binder
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36. **Ioan MILOSAN** - Some key elements for improving the total quality management concept
37. **Aurel CRISAN, Diana TUTUIANU, Tibor BEDO, Ioan CIOBANU** - Influence of inclinations applied to ribs on the solidification of cast parts
38. **Aurel CRISAN, Diana TUTUIANU, Tibor BEDO, Ioan CIOBANU** - Influence of corner radii applied to the joining area of the rib to the part wall on the solidification of cast part.
39. **Olga MITOSERIU, Florentina POTECASU, Stela CONSTANTINESCU, Lucica ORAC** - Composite coating in copper matrix with molybdenum in dispersion phase obtained by electrochemical methods
40. **N. CANANAU, D. SCARLAT, G. FLOREA** - Problems and solutions regarding the centrifugal casting of wire sheave for heavy cranes
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44. **Ovidiu DIMA** - Permanent forms for casting more sustainable, cladding hard alloys
45. **Roxana STEFANICA, Carmen NEJNERU, Vasile MANOLE, Ramona CIMPOESU HANU** - Electro-corrosion behavior of 7075 aluminum alloy after ageing treatment
46. **Vasile BASLIU** - Researches regarding the obtaining of some composite materials with metallic matrix obtained through casting
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50. **Maria VLAD, Gelu MOVILEANU** - Soil pollution with heavy metals
51. **Alexandru STANCIOIU, Olga MITOSERIU, Marian BORDEI** - Consideration regarding the heat treatment of sheets and strips from aluminum alloy 5052 type
52. **Ioan MARGINEAN, Bogdan-Alexandru VERDES, Sorin-Adrian COCOLAS** -Theoretical study regarding the flow conditions for alloys through thin channels
53. **Nicolae CANANAU, Alexandru CHIRIAC, Vasile BRATU** - Quality assurance of cylindrical casted parts with small thickness
54. **Tamara RADU, Lucica BALINT, Viorel DRAGAN** - Research on the effect of temperature and duration of immersion on the layer thickness of zinc coating obtained in microalloyed zinc melts
55. **Stela CONSTANTINESCU** - Characterisation of niobium carbide chemical deposition from vapour at normal pressure
56. **Dimitar TEODOSIEV, Lubomir ANESTIEV, Jordan GEORGIEV, Nartzislav PETROV, Petar TZVETKOV, Cristiana NIKOLOVA** - Glass- carbon bioactive coatings on a TiO₂- NB₂O₅ substrate
57. **Alexandru CHIRIAC, Gheorghe FLOREA, Ioan SARACIN, Olimpia PANDA** - Sources of emissions in the sintering and blast furnace plant
58. **Ioan CIOBANU, Diana TUTUIANU, Tibor BEDO, Aurel CRISAN** - Influence of rib length on the solidification of cast parts
59. **Ioan CIOBANU, Diana TUTUIANU, Tibor BEDO, Aurel CRISAN** - Influence of rib thickness on the solidification of cast parts
60. **Violeta VASILACHE, Sonia GUTT, Ion SANDU, Gheorghe GUTT, Traian VASILACHE** - Electrodeposition and characterization of zinc-cobalt alloy coatings
61. **Vasile BASLIU** - Development of a new installation of elaboration-casting in order to obtain composite materials with metallic matrix
62. **Alexandru CHIRIAC, Gheorghe Florea, Marian NEACSU, Ioan SARACIN, Olimpia PANDA** - Structural aspects of antifriiction properties brass
63. **Carmen-Penelopi PAPADATU** - The behavior of some non-conventional treated steels during wear process (III).