

**INDICATORII DE PERFORMANȚĂ OBTINUȚI ÎN PERIOADA
AFERENTĂ RAPORTĂRII ETAPEI II: 01/12/2012 – 30/11/2013
PROIECT DE CERCETARE IFA-CEA C2-02 / 01-03-2012
*NanoSurfCorr***

Teze de licență / masterat / doctorat

1 Teză de doctorat finalizată:

1. Dr. ing. Adina Ionica PAVLOV, Coordonator științific – prof. univ. dr. Lidia BENEĂ. Titlul tezei de doctorat: *Influența tratamentelor electrochimice a suprafețelor (straturi nanocompozite în matrice de nichel) asupra rezistenței la coroziune și uzură*, data susținerii publice 5 decembrie 2012.



1 Lucrare (Teză) de disertație:

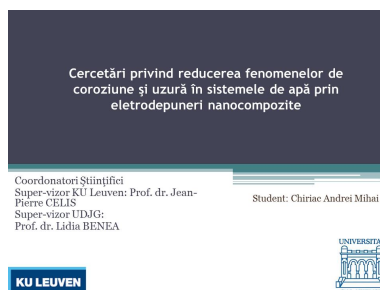
1. Master student: Ing. Ortața ROMAN, Coordonator științific – prof. univ. dr. Lidia BENEĂ. Titlul tezei de disertație: *Influența stării suprafeței și a pH-ului mediului asupra coroziunii aliajului Ti-6Al-4V*.

2 Lucrări (Teze) de licență:

1. Student: Bogdan–Sorin BAȘA, Coordonator științific – prof. univ. dr. Lidia BENEĂ. Titlul tezei de licență: *Creșterea rezistenței la coroziune și uzură a echipamentelor din sistemele de purificare a apei prin modificarea suprafeței materialelor*.



2. Student: **Andrei Mihai CHIRIAC**, Coordonator științific – prof. univ. dr. Lidia BENEĂ. Titlul tezei de licență: *Cercetări privind reducerea fenomenelor de coroziune și uzură în sistemele de apă prin electrodepuneri nanocompozite.*



Publicații în reviste indexate ISI

1. Adina Ionica PAVLOV, Lidia BENEĂ, Jean–Pierre CELIS, Luis VAZQUEZ, *Influence of nano-TiO₂ co-deposition on the morphology, microtopography and crystallinity of Ni/nano-TiO₂ electrosynthesized nanocomposite coatings*, Digest Journal of Nanomaterials and Biostructures, 8, 1043 – 1050, (2013).

ISSN 1842-3582.

http://www.chalcogen.ro/1043_Benea.pdf

Impact Factor = 1.123.

2. Lidia BENEĂ, Adina Ioana PAVLOV, *Ni-TiO₂ nanocomposite coatings as cathode material for hydrogen evolution reaction*, Optoelectronics and Advanced Materials – Rapid Communications, 7, 895 – 899, (2013).

ISSN 1842-6573

<http://oam-rc.inoe.ro/index.php?option=magazine&op=view&idu=2198&catid=81>

Impact Factor= 0.563.

Publicații în reviste incluse în alte baze de date internaționale recunoscute (BDI)

1. Eliza MARDARE, Lidia BENEĂ, Iulian BOUNEGRU, *Electrochemical Modifications of Titanium And Titanium Alloys Surface For Biomedical Applications – A Review*, The Annals of “Dunarea de Jos” University of Galati, Fascicle IX. Metallurgy and Materials Science, No. 1 pg. 68 – 78, 2013.

ISSN 1453 – 083X.

<http://www.imsi.ugal.ro/Anale/2013-Annals-vol-1.pdf>

Participări la conferințe internaționale

O lucrare prezentată la: **IVC-19 / ICN+T 2013 and partner conferences (19th International Vacuum Congress (IVC-19), International Conference on Nanoscience and Technology (ICN+T 2013), 15th International Conference on Solid Surfaces (ICSS-**

15), Innovations in Thin Film Processing and Characterisation (ITFPC 2013), Magnetron, Ion processing & Arc Technologies European Conference (MIATEC 2013), 19th International Colloquium on Plasma Processes (CIP 2013), Reactive Sputter Deposition (RSD 2013)), Sesion: Nanostructured Protective Coatings (Joint with ITFPC 2013), 9 – 13 September 2013, Paris, Franța.

http://www.ivc19.com/fileadmin/document/19th_International_Vacuum_Congress.pdf

1. Oral presentation: Lidia BENEÀ, Olivier RAQUET, Nadege CARON, Pierre PONTTHIAUX, Jean-Pierre CELIS, *Nanocomposite coatings for improving the corrosion and wear resistance of surfaces*, IVC-19 / ICN+T 2013 and partner conferences (19th International Vacuum Congress (IVC-19), International Conference on Nanoscience and Technology (ICN+T 2013), 15th International Conference on Solid Surfaces (ICSS-15), Innovations in Thin Film Processing and Characterisation (ITFPC 2013), Magnetron, Ion processing & Arc Technologies European Conference (MIATEC 2013), 19th International Colloquium on Plasma Processes (CIP 2013), Reactive Sputter Deposition (RSD 2013)), Sesion: Nanostructured Protective Coatings (Joint with ITFPC 2013), 9 – 13 September 2013, Paris, Franța.

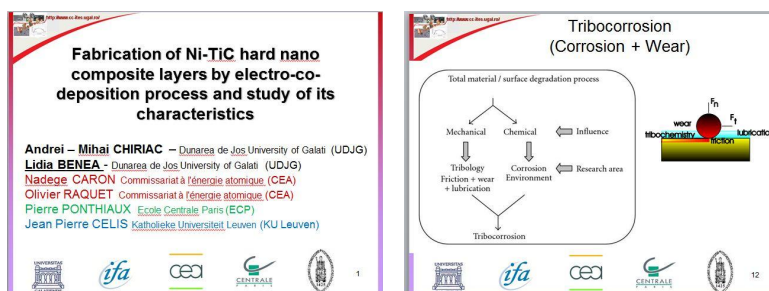
http://apps.key4events.com/key4register/images/client/164/files/Abstracts_IVC19.pdf

Două lucrări prezentate la: First International Conference Danube – Black Sea – 3E – Energy, Environment & Efficiency (IWEEE 2013), Section II – Environmental issues in the Danube and Black Sea areas, multiple dimensions of water security and environmental risks, Dunărea de Jos University of Galați, 18 – 21 September 2013, Galați, România.

<http://www.iweee.ugal.ro/index.php/program>

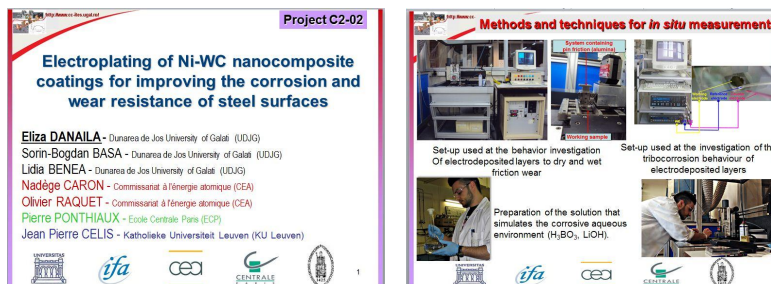
1. Oral presentation: Andrei Mihai CHIRIAC, Lidia BENEÀ, Nadège CARON, Olivier RAQUET, Pierre PONTTHIAUX, Jean- Pierre CELIS, *Fabrication of Ni-TiC Hard Nanocomposite Layers by Electro-co-deposition Process and Study of Its Characteristics*, First International Conference Danube – Black Sea – 3E – Energy, Environment & Efficiency (IWEEE 2013), Section II – Environmental issues in the Danube and Black Sea areas, multiple dimensions of water security and environmental risks, Dunărea de Jos University of Galați, 18 – 21 September 2013, Galați, România.

<http://www.iweee.ugal.ro/index.php/program>



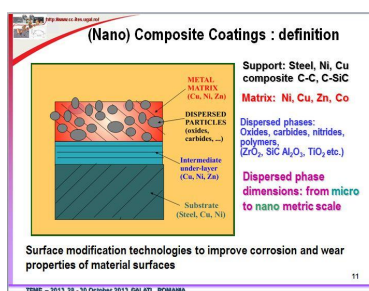
2. Oral presentation: Sorin-Bogdan BAȘA, Lidia BENEÀ, Nadège CARON, Olivier RAQUET, Pierre PONTTHIAUX, Jean-Pierre CELIS, *Electroplating of Ni-WC Nanocomposite Coatings for Improving Corrosion and Wear Resistance of Steel Surfaces*,

First International Conference Danube – Black Sea – 3E – *Energy, Environment & Efficiency* (IWEEE 2013), Section II – Environmental issues in the Danube and Black Sea areas, multiple dimensions of water security and environmental risks, Dunărea de Jos University of Galați, 18 – 21 September 2013, Galați, România.
<http://www.iweee.ugal.ro/index.php/program>



Patru lucrări prezentate la: **The Second International Conference of Young Researchers - New trends in environmental and materials engineering (TEME)**, Faculty of Materials and Environmental Engineering, Dunărea de Jos University of Galați, 28 – 30 October 2013, Galați, Romania.
<http://www.fimm.ugal.ro/teme/>

1. Oral presentation: **Lidia BENEĂ**, *Recent research and development in electrodeposition of nanocomposite layers and nanostructures*, The Second International Conference of Young Researchers - *New trends in environmental and materials engineering (TEME)*, Faculty of Materials and Environmental Engineering, Dunărea de Jos University of Galați, 28 – 30 October 2013, Galați, Romania.
<http://www.fimm.ugal.ro/teme/>

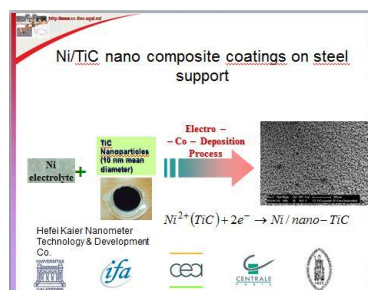
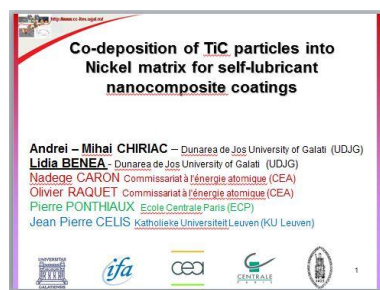


2. Oral presentation: **Sorin Bogdan BAȘA**, Lidia BENEĂ, Nadège CARON, Olivier RAQUET, Pierre PONTIAUX, Jean-Pierre CELIS, *Electrochemical synthesis and characterization of Ni/WC nanocomposite layers*, The Second International Conference of

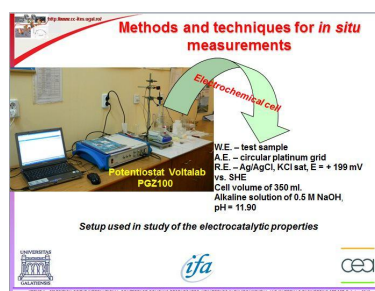
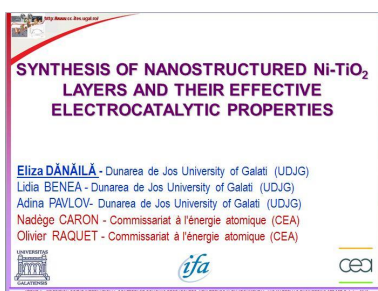
Young Researchers - *New trends in environmental and materials engineering* (TEME), Faculty of Materials and Environmental Engineering, Dunărea de Jos University of Galați, 28 – 30 October 2013, Galați, Romania.
<http://www.fimm.ugal.ro/teme/>



3. Oral presentation: Andrei Mihai CHIRIAC, Lidia BENEĂ, Nadège CARON, Olivier RAQUET, Pierre PONTTHIAUX, Jean-Pierre CELIS, *Codeposition of TiC particles into nickel matrix for self-lubricant nanocomposite coatings*, The Second International Conference of Young Researchers - *New trends in environmental and materials engineering* (TEME), Faculty of Materials and Environmental Engineering, Dunărea de Jos University of Galați, 28 – 30 October 2013, Galați, Romania.
<http://www.fimm.ugal.ro/teme/>

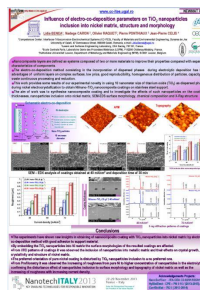


4. Oral presentation: Lidia BENEĂ, Adina PAVLOV, Eliza DĂNĂILĂ, Nadège CARON, Olivier RAQUET, *Synthesis of nanostructured Ni-TiO₂ layers and their effective electrocatalytic properties*, The Second International Conference of Young Researchers - *New trends in environmental and materials engineering* (TEME), Faculty of Materials and Environmental Engineering, Dunărea de Jos University of Galați, 28 – 30 October 2013, Galați, Romania.
<http://www.fimm.ugal.ro/teme/>



O lucrare prezentată la: **International conference NanotechITALY 2013 – Key enabling technologies for responsible innovation, Session New Materials and Processes - Manufacturing and Nanofabrication, 27 – 29 November 2013, Venice, Italy.**
<http://2013.nanotechitaly.it/>

1. Poster presentation: **Lidia BENEĂ, Nadège CARON, Olivier RAQUET, Pierre PONTTHIAUX, Jean-Pierre CELIS, Influence of electro-co-deposition parameters on TiO₂ nanoparticles inclusion into nickel matrix, structure and morphology**, International conference NanotechITALY 2013 – Key enabling technologies for responsible innovation, Session New Materials and Processes - Manufacturing and Nanofabrication, Poster ID: NEWMAT_P5, 27 – 29 November 2013, Venice, Italy.
<http://2013.nanotechitaly.it/>



Participări la conferințe naționale

Șase lucrări prezentate la: **Scientific Conference of Doctoral Schools from “Dunărea de Jos” University of Galati – First Edition, Section 3 – Nanotechnologies and Functional Materials, 16 – 17 Mai 2013, Galați, România.**
<http://www.cssd-udjg.ugal.ro/index.php?edition=2013&lang=ro>

1. Invited conference: **Lidia BENEĂ, I.3.1. – Electrochemical surface modifications and characterization methods – a promising avenue for functional materials**, Scientific Conference of Doctoral Schools from “Dunărea de Jos” University of Galati – First Edition, Section 3 – Nanotechnologies and Functional Materials, 16 – 17 Mai 2013, Galați, România, pg. 11 – 12 – Book of Abstracts.
<http://www.cssd-udjg.ugal.ro/index.php?edition=2013&lang=ro>

2. Oral presentation: **Iulian BOUNEGRU, Lidia BENEĂ, Lilia ILIE, Geta CÂRÂC, Alexandru CHIRIAC, P.O.3.3. - Advanced composite coatings for biomedical applications using electrodeposition of chitosan**, Scientific Conference of Doctoral Schools from

“Dunărea de Jos” University of Galati – First Edition, Section 3 – Nanotechnologies and Functional Materials, 16 – 17 Mai 2013, Galați, România, pg. 36 – 37 – Book of Abstracts.
<http://www.cssd-udjg.ugal.ro/index.php?edition=2013&lang=ro>

3. Oral presentation: **Marilena MARDARE (PRALEA)**, Lidia BENEĂ, Lilia ILIE, **P.O.3.4. - Electro-co-deposition of UHMWPE biopolymer with cobalt to obtain functional coatings**, Scientific Conference of Doctoral Schools from “Dunărea de Jos” University of Galati – First Edition, Section 3 – Nanotechnologies and Functional Materials, 16 – 17 Mai 2013, Galați, România, pg. 37 – Book of Abstracts.
<http://www.cssd-udjg.ugal.ro/index.php?edition=2013&lang=ro>

4. Poster presentation: Adina PAVLOV, **Lidia BENEĂ**, Lilia ILIE, Jean - Pierre CELIS, **P.3.9. - Influence of TiO₂ nanoparticles on surface morphology and cristalinity of nickel electrodeposited nickel film**, Scientific Conference of Doctoral Schools from “Dunărea de Jos” University of Galati – First Edition, Section 3 – Nanotechnologies and Functional Materials, 16 – 17 Mai 2013, Galați, România, pg. 76-77- Book of Abstracts.
<http://www.cssd-udjg.ugal.ro/index.php?edition=2013&lang=ro>

5. Poster presentation: **Alina CIUBOTARIU**, Lidia BENEĂ, Pierre PONTTHIAUX, Francois WENGER, **P.3.10. - Phenol – Formaldehyde Resin/Zn Composite Layers – A Way to Improve Corrosion Resistance of Zinc Electrodeposition**, Scientific Conference of Doctoral Schools from “Dunărea de Jos” University of Galati – First Edition, Section 3 – Nanotechnologies and Functional Materials, 16 – 17 Mai 2013, Galați, România, pg. 77 – 78 – Book of Abstracts.
<http://www.cssd-udjg.ugal.ro/index.php?edition=2013&lang=ro>

6. Poster presentation: Vlad–Gabriel VASILESCU, **Lidia BENEĂ**, Elisabeta VASILESCU, **P.3.11. - Influence of pH solution on corrosion behavior of cobalt–chromium alloy used in dentistry**, Scientific Conference of Doctoral Schools from “Dunărea de Jos” University of Galati – First Edition, Section 3 – Nanotechnologies and Functional Materials, 16 – 17 Mai 2013, Galați, România, pg. 78 – Book of Abstracts.
<http://www.cssd-udjg.ugal.ro/index.php?edition=2013&lang=ro>

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