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INDICATORII DE PERFORMANȚĂ OBȚINUȚI ÎN PERIOADA
AFERENTĂ RAPORTĂRII ETAPEI: 01/01/2015 – 31/12/2015
PROIECT PCE – PN II 10 / 30.08.2013

Titlul proiectului:

Noi funcționalizări hibride (anorganic – organic) a suprafețelor biomaterialelor (metale, aliaje) cu molecule bioactive prin tehnici electrochimice.

Acronim:

HyBioElect

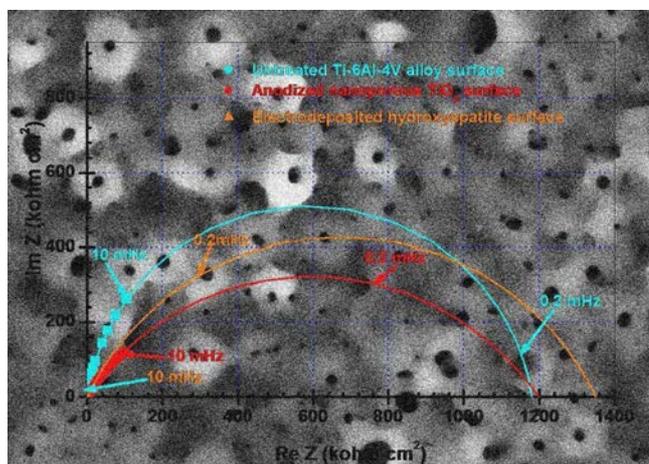
Contract 10 / 30-08-2013

Site web:

<http://www.hybioelect.ugal.ro>

Director proiect:

Prof. dr. chi. Lidia BENEĂ



2015

A. Publicații în reviste indexate ISI (Web of Science)**1 articol****1. Lidia BENEĂ, Eliza DANAILA, Pierre PONTIAUX.****Effect of titania anodic formation and hydroxyapatite electrodeposition on electrochemical behavior of Ti-6Al-4V alloy under fretting conditions for biomedical applications.*****Corrosion Science*, 91 (2015) 262 - 271, ISSN: 0010-938X.**

Accession Number: WOS:000345520000069

[DOI:10.1016/j.corsci.2014.11.026](https://doi.org/10.1016/j.corsci.2014.11.026)<http://www.sciencedirect.com/science/article/pii/S0010938X14005472>https://apps.webofknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=1&SID=N2IBSTS4EJAwGMM6Bem&page=1&doc=1**Impact Factor (2014) = 4.422****B. Publicații sau în curs de publicare în reviste incluse în baze de date internaționale recunoscute (BDI)****5 articole****1. Valentin DUMITRAȘCU, Lidia BENEĂ.****Influence of the anodic oxidation treatment on the corrosion behaviour of aluminium and aluminium alloys.*****The Annals of "Dunarea de Jos" University of Galati, Fascicle IX - Metallurgy and Materials Science*, Vol. 3, 2015, ISSN 1453-083X, (lucrare acceptată, în curs de publicare).**http://uefiscdi.gov.ro/userfiles/file/IC6%202011/Reviste%20romanesti%20recunoscute%20de%20CNCSIS-%20categoria%20B_plus.pdf**2. Georgeta TODERAȘCU, Valentin DUMITRAȘCU, Lidia BENEĂ. Alexandru CHIRIAC.****Corrosion behaviour and biocompatibility of 316 stainless steel as biomaterial in physiological environment.*****The Annals of "Dunarea de Jos" University of Galati, Fascicle IX - Metallurgy and Materials Science*, Vol. 4, 2015, ISSN 1453-083X, (lucrare acceptată, în curs de publicare).**http://uefiscdi.gov.ro/userfiles/file/IC6%202011/Reviste%20romanesti%20recunoscute%20de%20CNCSIS-%20categoria%20B_plus.pdf**3. Alina CIUBOTARIU, Lidia BENEĂ, Wolfgang SAND.****Surface roughness and topography of Ni / micro-SiC layers: Influence of current density on electrodeposition process.**

The Annals of "Dunarea de Jos" University of Galati, Fascicle IX - Metallurgy and Materials Science, Vol. 4, 2015, ISSN 1453-083X, (lucrare acceptată, în curs de publicare).

http://uefiscdi.gov.ro/userfiles/file/IC6%202011/Reviste%20romanesti%20recunoscute%20de%20CNCSIS-%20categoria%20B_plus.pdf

4. Adrian DIACONU, Cătălin SOLOMON, Lidia BENEĂ, Valentin DUMITRAȘCU, Laurențiu MARDARE.

Corrosion resistance of zinc coated steel in sea water environment.

The Annals of "Dunarea de Jos" University of Galati, Fascicle IX - Metallurgy and Materials Science, Vol. 3, 2015, ISSN 1453-083X, (lucrare acceptată, în curs de publicare).

http://uefiscdi.gov.ro/userfiles/file/IC6%202011/Reviste%20romanesti%20recunoscute%20de%20CNCSIS-%20categoria%20B_plus.pdf

5. Alina Crina CIUBOTARIU, Lidia BENEĂ, Wolfgang SAND.

Effects of sulphate reducing bacteria on thermosetting polymers/Zn composite coatings.

Scientific Bulletin "Mircea cel Batran" Naval Academy, Volume XVIII – 2015 – Issue 1, pag. 162 – 166, ISSN: 1454-864X, Proceedings of 1st International Conference SEA-CONF 2015, 15-16 May, Constanta, România.

http://www.anmb.ro/buletinstiintific/buletine/2015_Issue1/MES/162-166.pdf

The journal is indexed in: PROQUEST SciTech Journals, PROQUEST Engineering Journals, PROQUEST Illustrata: Technology, PROQUEST Technology Journals, PROQUEST Military Collection PROQUEST Advanced Technologies & Aerospace.

C. Articole în curs de publicare în volumele conferințelor indexate 10 articole

Patru (4) articole aflate în evaluare, trimise spre a fi publicate în **Advanced Materials Research** - Proceedings of the International Conference on Sustainable Materials Science and Technology - SMST15, Université Paris 8, 15 – 17 Iulie 2015, Paris, Franța.

<http://www.smatcitech.com/>

<http://www.smatcitech.com/index.php/congress-information/congress-journals>

Advanced Materials Research, ISSN: 1662-8985.

Indexing: indexed by

Index Copernicus Journals Master List www.indexcopernicus.com.

Google Scholar scholar.google.com.

Chemical Abstracts (CAS) www.cas.org.

Cambridge Scientific Abstracts (CSA) www.csa.com.

Inspec (IET, Institution of Engineering Technology) www.theiet.org.

SCImago Journal & Country Rank (SJR) www.scimagojr.com.

ProQuest www.proquest.com.

EBSCO www.ebsco.com.

Thomson Reuters (WoS), all volumes are submitted and selected ones will be indexed.

1. Lidia BENEĂ, Eliza DĂNĂILĂ, Iulian BOUNEGRU.

Characterization and corrosion-resistance performance of hybrid Co/UHMWPE composite biocoatings.

Paper ID: MR092.

Advanced Materials Research, ISSN: 1662-8985.

2. Lidia BENEĂ, Eliza DĂNĂILĂ, Valentin Marian DUMITRAȘCU.

Vegetable extracts as inhibitors of carbon steel corrosion in acidic environment.

Paper ID: MR093.

Advanced Materials Research, ISSN: 1662-8985.

3. Eliza DĂNĂILĂ, Lidia BENEĂ.

Comparative tribocorrosion resistance in physiological solution of untreated and modified Ti-6Al-4V alloy surface by electrodeposition of hydroxyapatite coatings into nanoporous titania layers.

Paper ID: MR094.

Advanced Materials Research, ISSN: 1662-8985.

4. Lidia BENEĂ, Valentin DUMITRAȘCU, Eliza DĂNĂILĂ, Iulian BOUNEGRU.

Electrochemical behavior of cobalt - chromium alloy as biomaterial in different pH environments.

Paper ID: SM036.

Advanced Materials Research, ISSN: 1662-8985.

Trei (3) articole corectate și acceptate spre publicare în Proceedings of the the 3th International Conference on Polyemers Processing in Engineering (PPE 2015) - **Key Engineering Materials**, 24 – 26 Septembrie 2015, Universitatea "Dunărea de Jos,, din Galați, România.

<http://www.if.ugal.ro/PPE2015/>

Key Engineering Materials, ISSN: 1662-9795.

Indexing:

Indexed by Elsevier: SCOPUS www.scopus.com. Index

Copernicus Journals Master List www.indexcopernicus.com.

Google Scholar scholar.google.com.

Ei Compendex (CPX) www.ei.org/.

Chemical Abstracts (CAS) www.cas.org.

Cambridge Scientific Abstracts (CSA) www.csa.com.

Inspec (IET, Institution of Engineering Technology) www.theiet.org.

SCImago Journal & Country Rank (SJR) www.scimagojr.com.

ProQuest www.proquest.com.

EBSCO www.ebsco.com.

CiteSeerX citeseerx.ist.psu.edu.

Thomson Reuters (WoS), all volumes are submitted and selected ones will be indexed.

1. Lidia BENEĂ, Eliza DĂNĂILĂ.

Electrochemical codeposition of UHMWPE biopolymer into cobalt matrix for biomedical applications.

Paper ID: 978-3-03835-557-1_140.

Key Engineering Materials, ISSN: 1662-9795.

<http://www.if.ugal.ro/PPE2015/Authors.htm>

<http://www.scientific.net/Participant/Papers/4127>

2. Alina Crina CIUBOTARIU, Lidia BENEĂ, Pierre PONTIAUX.

Phenol – Formaldehyde Resin to Improve Corrosion Resistance of Zinc Layers, Paper.

ID: 978-3-03835-557-1_150.

Key Engineering Materials, ISSN: 1662-9795.

<http://www.if.ugal.ro/PPE2015/Authors.htm>

<http://www.scientific.net/Participant/Papers/4127>

3. Laurentiu MARDARE, Lidia BENEĂ, Eliza DĂNĂILĂ, Valentin DUMITRAȘCU.

Polymeric coatings used against marine corrosion of naval steel EN32.

Paper ID: 978-3-03835-557-1_160.

Key Engineering Materials, ISSN: 1662-9795.

<http://www.if.ugal.ro/PPE2015/Authors.htm>

<http://www.scientific.net/Participant/Papers/4127>

Trei (3) articole acceptate spre a fi publicate în Proceedings of the **5th IEEE International Conference on E-Health and Bioengineering - EHB 2015**, Universitatea de Medicină și Farmacie Grigore T. Popa, Iași, 19 – 21 Noiembrie 2015, Iași, Romania.

<http://www.ehbconference.ro/>

Titlu volum conferința:

2015 E-Health and Bioengineering Conference (EHB)

https://www.ieee.org/conferences_events/conferences/conferencedetails/index.html?Conf_ID=36716

Denumire conferință:

Challenging Issues for Health and Biomedical Technologies.

E-Health and Bioengineering Conference (EHB).

Indexed in:

IEEE Xplore® data base,

submitted to Thomson-Reuters for Conference Proceedings citation Index (ISI-Proceedings), SCOPUS and INSPEC data bases.

1. Lidia BENEĂ, Eliza DĂNĂILĂ, Valentin Marian DUMITRAȘCU, Pierre PONTIAUX.

The effect of anodic oxidation treatment of Ti-10Zr alloy on tribocorrosion behavior in a simulated physiological solution.

Paper ID 60,

E-Health and Bioengineering - EHB 2015.

IEEE copyright notice: 978-1-4673-7545-0/15/\$31.00 ©2015 IEEE.

<http://www.ehbconference.ro/Submission.aspx>

<https://easychair.org/conferences/submission.cgi?a=9821051;submission=2475971>

2. Eliza DĂNĂILĂ, Lidia BENEĂ, Pierre PONTIAUX.

Tribocorrosion performance of Co/UHMWPE composite biocoatings compared to pure Co coatings in a simulated physiological solution.

Paper ID 61.

E-Health and Bioengineering - EHB 2015.

IEEE copyright notice: 978-1-4673-7545-0/15/\$31.00 ©2015 IEEE.

<http://www.ehbconference.ro/Submission.aspx>

<https://easychair.org/conferences/submission.cgi?submission=2475973;track=138896;a=9821051>

3. Eliza DĂNĂILĂ, Lidia BENEĂ.

The Effect of Surface Roughness on Corrosion Behavior of Ti-6Al-4V Alloy in Saliva Solution.

Paper ID 277.

E-Health and Bioengineering - EHB 2015.

IEEE copyright notice: 978-1-4673-7545-0/15/\$31.00 ©2015 IEEE.

<http://www.ehbconference.ro/Submission.aspx>

<https://easychair.org/conferences/submission.cgi?track=138896;submission=2518923;a=9821051>

D. Participări la 9 conferințe internaționale

TOTAL 26 lucrări din care:

21 - prezentări orale

5 - postere

O (1) lucrare la: **5th Virtual Nanotechnology Poster Conference**, 13 – 19 Aprilie 2015

<http://www.nanopaprika.eu/video/nanoposter-2015>

1. Lidia BENEĂ, Eliza DANAILA, Iulian BOUNEGRU.

Nanoporous TiO₂ thin layer formed by electrochemical methods to improve the surface properties of titanium alloy in bio-simulated solutions.

Poster ID: P15-30.

Poster presentation:

5th Virtual Nanotechnology Poster Conference, 13 – 19 Aprilie 2015.

<http://www.nanopaprika.eu/group/nanoposter/page/p15-30>

Două (2) lucrări prezentate la: **7th EuroNanoForum Conference**, 10 – 12 Iunie 2015, Riga, Letonia.

<http://www.euronanoforum2015.eu>

1. Lidia BENEĂ, Eliza DĂNĂILĂ, Iulian Bounegru.

Nanoporous TiO₂ thin layer formed by electrochemical methods on titanium alloy to improve the corrosion resistance of implants in physiological solutions.

Session: *Nanotechnologies and health.*

Poster ID: 2D-207.

Poster presentation.

http://euronanoforum2015.eu/wp-content/uploads/2015/03/Abstract_Benea.pdf

<http://euronanoforum2015.eu/poster-sessions/>

2. Eliza DĂNĂILĂ, Lidia BENEĂ, Valentin DUMITRAȘCU, Pierre PONTIAUX.

Effects of nano-TiC content on morphology, hardness and tribological properties of Ni/TiC nanocomposite coatings.

Session: *Modelling and characterisation at nanoscale.*

Poster ID: 1B-113

Poster presentation.

http://euronanoforum2015.eu/wp-content/uploads/2015/03/Abstract_Danaila.pdf

<http://euronanoforum2015.eu/poster-sessions/>

Două (2) lucrări prezentate la 15th International Balkan Workshop on Applied Physics, Ovidius University of Constanța, 2 – 4 Iulie 2015, Constanța, România.

<http://www.ibwap.ro/2015/>

1. Lidia BENEĂ, Eliza DĂNĂILĂ, Valentin DUMITRAȘCU.

Influence of electro-codeposition parameters on TiO₂ nanoparticles inclusion into nickel matrix: structure, morphology and corrosion resistance.

Oral presentation.

Session I: Materials Physics, S1 O3. pg. 29–30 – Book of Abstracts.

<http://www.ibwap.ro/2015/uploads/template/List%20of%20titles.pdf>

2. Lidia BENEĂ, Eliza DĂNĂILĂ, Nadege CARON, Olivier RAQUET.

Fretting-corrosion behavior of Ni/WC hybrid coating system fabricated by electrodeposition.

Oral presentation.

Session I: Materials Physics, S1 O5, pg. 31–32 – Book of Abstracts.

<http://www.ibwap.ro/2015/uploads/template/List%20of%20titles.pdf>

Patru (4) lucrări prezentate la: International Conference on Sustainable Materials Science and Technology - SMST15, Université Paris 8, 15 – 17 Iulie 2015, Paris, Franța.

<http://www.smatcitech.com/>

1. Lidia BENEĂ, Eliza DĂNĂILĂ, Iulian BOUNEGRU.

Characterization and corrosion-resistance of hybrid Co/UHMWPE composite biocoatings.

Oral presentation:

Session: **Materials in research**, pg. 68 – Book of Abstracts.

ISBN: 978-84-944311-0-4.

<http://www.smatcitech.com/index.php/scientific-program>

2. Eliza DĂNĂILĂ, Lidia BENEĂ.

Comparative tribocorrosion resistance in physiological solution of untreated and modified Ti-6Al-4V alloy surface by electrodeposition of hydroxyapatite coatings into nanoporous titania layers.

Oral presentation:

Session: **Materials in research**, pg. 70 – Book of Abstracts.

ISBN: 978-84-944311-0-4.

<http://www.smatcitech.com/index.php/scientific-program>

3. Valentin Marian DUMITRAȘCU, Lidia BENEĂ, Eliza DĂNĂILĂ.

Vegetable extracts as inhibitors of carbon steel corrosion in acidic environment.

Poster presentation:

Session: **Materials in research**. pg. 69 – Book of Abstracts.

ISBN: 978-84-944311-0-4.

<http://www.smatcitech.com/index.php/scientific-program>

4. Lidia BENEĂ, Eliza DĂNĂILĂ, Iulian BOUNEGRU.

Electrochemical behavior of cobalt–chromium alloy as biomaterial in different pH environments.

Poster presentation:

Session: **Materials in research**. pg. 208 – Book of Abstracts.

ISBN: 978-84-944311-0-4.

<http://www.smatcitech.com/index.php/scientific-program>

Două (2) lucrări prezentate la: International Seminar - Scientific Approach in Research Methodology & Universe of Biomaterials.

Organized in the frame of Research Project PNII-PCE - *New hybrid (inorganic-organic) functionalization of biomaterials (metals alloys) surfaces with functional molecules by electrochemical techniques*. Acronym: *HyBioElect*. Contract 10 / 30-08-2013 (2013-2016) – UEFISCDI.

<http://www.cc-ites.ugal.ro/Anunturi/International%20Seminar%202015.pdf>

1. Prof. dr. ir. Jean-Pierre CELIS, Katholieke Universiteit Leuven (KULeuven), Belgium.
Bio- and nanomaterials in mechanical joints operated in dry and wet environments from friction, wear and corrosion to lubrication.

Oral presentation.

<http://www.cc-ites.ugal.ro/Anunturi/International%20Seminar%202015.pdf>

2. Prof. dr. Pierre PONTIAUX, Ecole Centrale Paris (ECP), France.

Scientific Approach in Research Methodology.

<http://www.cc-ites.ugal.ro/Anunturi/International%20Seminar%202015.pdf>

Două (2) lucrări prezentate la: European Corrosion Congress **EUROCORR 2015 - Earth, Water, Fire, Air, Corrosion happens everywhere**, Stadthalle Graz, 6 – 10 Septembrie 2015, Graz, Austria.

<http://eurocorr2015.org/>

1. Lidia BENEĂ, Eliza DĂNĂILĂ, Pierre PONTIAUX.

Tribocorrosion performances of Co/nano-CeO₂ bio-coatings in physiological solutions.

Oral presentation:

Session: Tribocorrosion, pg. 35 – Scientific Programme.

http://eurocorr2015.org/downloads/Eurocorr2015_Programme.pdf

Aportul acestei lucrări în actualul proiect de cercetare este de 30% iar restul de 70% fiind atribuit proiectului POSDRU/159/1.5/S/138963 – Perform.

Taxa de participare la conferință și diurna pentru această deplasare au fost suportate din prezentul proiect de cercetare, iar cheltuielile de transport și cazare au fost suportate din proiectul POSDRU/159/1.5/S/138963 – Perform.

2. Lidia BENEĂ, Pierre PONTIAUX, Eliza DĂNĂILĂ, Nadege CARON, Olivier RAQUET.

Wear-corrosion performance of Ni/WC nano-structured composite coatings obtained by electrochemical deposition.

Oral presentation:

Session: Nuclear Corrosion, pg. 49 – Scientific Programme.

http://eurocorr2015.org/downloads/Eurocorr2015_Programme.pdf

Aportul acestei lucrări în actualul proiect de cercetare este de 50% iar restul de 50% fiind atribuit Universității "Dunărea de Jos", din Galați.

Taxa de participare la conferință a fost suportată din prezentul proiect de cercetare, iar cheltuielile privind deplasarea (transport, cazare și diurnă) au fost suportate din venituri proprii ale Universității "Dunărea de Jos", din Galați.

Trei (3) lucrări prezentate la: The **3th International Conference on Polymers Processing in Engineering - PPE 2015**, 24 – 26 Septembrie 2015, Universitatea "Dunărea de Jos", din Galați, România.

<http://www.if.ugal.ro/PPE2015/>

1. Lidia BENEĂ, Eliza DĂNĂILĂ.

Electrochemical codeposition of UHMWPE biopolymer into cobalt matrix for biomedical applications.

Oral presentation:

Session 1: Polymers, Functional Surface and Interfaces I, PPE2015-32.

<http://www.if.ugal.ro/PPE2015/Program.htm>

2. Alina Crina CIUBOTARIU, Lidia BENEĂ, Pierre PONTTHIAUX.

Phenol-Formaldehyde resin to improve corrosion resistance of zinc layers.

Oral presentation:

Symposium 3, Session 2: Polymers, Functional Surface and Interfaces II, PPE2015-34.

<http://www.if.ugal.ro/PPE2015/Program.htm>

3. Laurențiu MARDARE, Lidia BENEĂ, Valentin DUMITRAȘCU, Eliza DĂNĂILĂ.
Polymeric coatings used against marine corrosion of naval steel EN32,

Oral presentation:

Symposium 3, Session 2: Polymers, Functional Surface and Interfaces II, PPE2015-35.

<http://www.if.ugal.ro/PPE2015/Program.htm>

Șapte (7) lucrări prezentate la: The 3rd International Conferance of Young Researchers - New Trends in Environmental and Material Engineering - TEME 2015, 21 - 23 Octombrie 2015, Universitatea "Dunărea de Jos,, din Galați, România.

<http://www.teme.ugal.ro/>

1. Eliza DĂNĂILĂ, Lidia BENEĂ, Jean-Pierre CELIS.

Advanced materials and biomedical applications – improving the corrosion and wear resistance of titanium alloy surfaces by controlled growth of porous oxide film.

Oral presentation.

<http://www.teme.ugal.ro/Program%20TEME%202015.pdf>

2. Eliza DĂNĂILĂ, Lidia BENEĂ, Nadege CARON, Olivier RAQUET, Pierre PONTTHIAUX.

Advanced materials and energy applications – improving the tribocorrosion behavior of coatings by electro-codeposition of WC nano-dispersed particles with nickel matrix.

Oral presentation.

<http://www.teme.ugal.ro/Program%20TEME%202015.pdf>

3. Laurențiu MARDARE, Valentin DUMITRAȘCU, Lidia BENEĂ.

Advanced materials and coatings for marine corrosive environment – improving the corrosion resistance of naval steel by polymeric coatings.

Oral presentation.

<http://www.teme.ugal.ro/Program%20TEME%202015.pdf>

4. Valentin DUMITRAȘCU, Lidia BENEĂ, Eliza DĂNĂILĂ.

Advanced materials for aerospace applications – influence of anodic oxidation treatment on the corrosion behavior of aluminium and aluminium alloys.

Oral presentation.

<http://www.teme.ugal.ro/Program%20TEME%202015.pdf>

5. Georgeta TODERAȘCU, Lidia BENEĂ, Eliza DĂNĂILĂ.

Corrosion behavior and biocompatibility of 316 stainless steel SS as biomaterial in physiological solutions.

Oral presentation.

<http://www.teme.ugal.ro/Program%20TEME%202015.pdf>

6. Cătălin SOLOMON, Adrian DIACONU, Lidia BENEĂ, Eliza DĂNĂILĂ.

Corrosion resistance of zinc coated steel in sea water environment.

Oral presentation.

<http://www.teme.ugal.ro/Program%20TEME%202015.pdf>

7. Alina Crina CIUBOTARIU, Lidia BENEĂ, Wolfgang SAND.

Roughness and topography surfaces of SiC/Ni layers: Influence of current density on electrodeposition process.

Poster presentation.

Poster ID–P35.

<http://www.teme.ugal.ro/Program%20TEME%202015.pdf>

Trei (3) lucrări prezentate la: The *5th IEEE International Conference on E-Health and Bioengineering - EHB 2015*, Universitatea de Medicină și Farmacie Grigore T. Popa, Iași, 19 – 21 Noiembrie 2015, Iași, Romania.

<http://www.ehbconference.ro/>

1. Lidia BENEĂ, Eliza DĂNĂILĂ, Valentin Marian DUMITRAȘCU, Pierre PONTIAUX.
The effect of anodic oxidation treatment of Ti-10Zr alloy on tribocorrosion behavior in a simulated physiological solution.

Oral presentation.

<http://www.ehbconference.ro/Program.aspx>

2. Eliza DĂNĂILĂ, Lidia BENEĂ, Pierre PONTIAUX.

Tribocorrosion performance of Co/UHMWPE composite biocoatings compared to pure Co coatings in a simulated physiological solution.

Oral presentation.

<http://www.ehbconference.ro/Program.aspx>

3. Eliza DĂNĂILĂ, Lidia BENEĂ.

The Effect of Surface Roughness on Corrosion Behavior of Ti-6Al-4V Alloy in Saliva Solution.

Oral presentation.

<http://www.ehbconference.ro/Program.aspx>

E. Participări la 3 conferințe naționale**TOTAL 6 Lucrări din care:****4 - prezentări orale****2 - postere**

O (1) lucrare prezentată la: Sesiunea Națională de Comunicări Științifice Ștudentești Anghel Saligny, Ediția a VII-a, 20 - 21 Mai 2015, Facultatea de Inginerie, Universitatea "Dunărea de Jos", din Galați, România.

http://ing.ugal.ro/Resurse/MENUS/Studenti/Sesiuni/Sesiune_ASaligny/2015/index.html

1. Oral presentation: **Coroziunea oțelului zincat în apa de mare**. Studenți: **Cătălin SOLOMON, Adrian DIACONU**, Coordonatori Științifici: **prof. univ. dr. Lidia BENEĂ, dr. ing. Eliza DĂNĂILĂ**, Sesiunea Națională de Comunicări Științifice Ștudentești Anghel Saligny, Ediția a VII-a, Secțiunea 5: Ingineria și Protecția Mediului în Industrie, 20 - 21 Mai 2015, Facultatea de Inginerie, Universitatea "Dunărea de Jos", din Galați, România.

http://ing.ugal.ro/Resurse/MENUS/Studenti/Sesiuni/Sesiune_ASaligny/2015/pages/Program_2015.pdf

Trei (3) lucrări prezentate la: **Scientific Conference organized by the Doctoral Schools of "Dunărea de Jos" University of Galați (CSSD-UDJG 2015)**, Third Edition of Scientific Conference of Doctoral Schools from UDJ Galați, 4 - 5 Iunie 2015, Galați, România.

<http://www.cssd-udjg.ugal.ro/>

1. **Eliza DĂNĂILĂ**, Lidia BENEĂ, Iulian BOUNEGRU, Pierre PONTIAUX, Jean Pierre CELIS.

Importance of tribocorrosion in biomedical applications: Overview and some results.

Oral presentation.

Session 3 & UGALnano5: Functional Materials & Nanotechnologies, O.P. 3.3, pg. 76 – Book of Abstract.

<http://www.cssd-udjg.ugal.ro/index.php/abstracts>

2. **Iulian BOUNEGRU**, Lidia BENEĂ, Eliza DĂNĂILĂ, Alexandru CHIRIAC.

Electrodeposition of chitosan thin films on nanoporous titanium surface for biomedical applications.

Oral presentation.

Session 3 & UGALnano5: Functional Materials & Nanotechnologies, O.P. 3.3, pg. 77 – Book of Abstract.

<http://www.cssd-udjg.ugal.ro/index.php/abstracts>

Această lucrare a primit premiul II la Secțiunea 3 – Materiale Funcționale și Nanotehnologii.

3. **Valentin Marian DUMITRAȘCU**, Lidia BENEĂ, Eliza DĂNĂILĂ.

Electrodeposition of nanocomposite coatings – advantages and challenges.

Oral presentation.

Session 3 & UGALnano5: Functional Materials & Nanotechnologies, O.P. 3.3, pg. 81 – Book of Abstract , 4 - 5 Iunie 2015, Galați, România.

<http://www.cssd-udjg.ugal.ro/index.php/abstracts>

Această lucrare a primit premiul III la Secțiunea 3 – Materiale Funcționale și Nanotehnologii.

Două (2) lucrări prezentate la: UGAL INVENT, The first event supporting innovation promoted by "Dunărea de Jos,, University of Galati, 7 - 9 Octombrie 2015, Galati, Romania.

www.invent.ugal.ro

1. Eliza DĂNĂILĂ, Lidia BENEĂ, Pierre PONTTHIAUX, Nadège CARON, Olivier RAQUET. Advanced coatings for energy applications – Improving tribocorrosion behaviour by electro-codeposition of TiC nano – dispersed particles with nickel matrix.

Poster presentation.

www.invent.ugal.ro

Această lucrare a primit premiul *The Best Woman Inventor Award* - UGAL INVENT 2015.

http://www.invent.ugal.ro/docs/listaPremii_EN_20102015.pdf

2. Lidia BENEĂ, Eliza DĂNĂILĂ.

Nanoporous TiO₂ thin film formed by electrochemical technique to improve the biocompatibility of titanium alloy in physiological environment.

Poster presentation.

www.invent.ugal.ro

Această lucrare a primit o mențiune de onoare.

http://www.invent.ugal.ro/docs/listaPremii_EN_20102015.pdf

F. Alte realizări:

1 Seminar International

1 Teză de Doctorat finalizată

1 Teză de Disertație Master finalizată

2 Teze de Licență finalizate

Un (1) Seminar International:

International Seminar: Scientific Approach in Research Methodology & Universe of Biomaterials.

Organized in the frame of Research Project PNII-PCE - New hybrid (inorganic-organic) functionalization of biomaterials (metals alloys) surfaces with functional

molecules by electrochemical techniques. Acronym: **HyBioElect** Contract 10 / 30-08-2013 (2013-2016) - UEFISCDI.

Period: July 23, 2015.

<http://www.hybioelect.ugal.ro>

Participare internațională:

Prof. dr. ir. Jean-Pierre CELIS - Katholieke Universiteit Leuven (KULeuven), Belgium.

Prof. dr. Pierre PONTIAUX - Ecole Centrale Paris (ECP), France.

Scientific Committee & Organizing Committee:

Prof. Dr. Lidia BENEĂ - Dunărea de Jos University of Galați: Lidia.Benea@ugal.ro

Prof. Dr. Alexandru CHIRIAC - Dunărea de Jos University of Galați: Alexandru.Chiriac@ugal.ro

Prof. Dr. Minodora RIPA - Dunărea de Jos University of Galați: Ripa.Minodora@ugal.ro

Dr. Eliza DĂNĂILĂ: Eliza.Mardare@ugal.ro

Drd. Ec. Valentin DUMITRAȘCU: Valentin.Dumitrascu@ugal.ro

<http://www.cc-ites.ugal.ro/Anunturi/International%20Seminar%202015.pdf>

O (1) Teză de doctorat finalizată (PhD Thesis):

1. Drd. Farm. Iulian BOUNEGRU,

Titlul tezei de doctorat:

Obținerea și caracterizarea suprafețelor funcționale prin metode electrochimice pentru aplicații biomedicale.

Preparation and characterization of functional surfaces for biomedical applications using electrochemical methods.

Data susținerii publice: 23 Iulie 2015,

Conducător doctorat: **Prof. univ. dr. Lidia BENEĂ.**

Domeniul de doctorat: **Ingineria Materialelor.**

Comisie doctorat:

Președinte: Prof. univ. dr. ing. Cătălin FETECĂU - Decan Facultatea de Inginerie.

Conducător de doctorat: Prof. univ. dr. Lidia BENEĂ

Referent oficial: Prof. univ. dr. ing. Jean Pierre CELIS - Katholieke Universiteit Leuven (KULeuven), Belgium.

Referent oficial: Prof. univ. dr. ing. Pierre PONTIAUX - Ecole Centrale Paris (ECP), France.

Referent oficial: Prof. univ. dr. ing. Alexandru CHIRIAC - Prodecan - Facultatea de Medicină și Farmacie.

O (1) Teză disertație Master finalizată:

1. Student masterand: **Ing. Bogdan – Sorin BAȘA.**

Titlul lucrării de disertație:

Electrodeposition and fretting corrosion resistance of nickel composite coatings containing nanosized WC particles.

Conducător științific: **Prof. univ. dr. Lidia BENEĂ.**

Sesiunea: iulie 2015.

Domeniul: Ingineria Mediului.

Specializarea: **Sustainable development and safety in industry** (Dezvoltare Durabilă și Securitate în Industrie).

Limba: Engleză.

Două (2) Lucrări de licență finalizate:**1. Student Marius SOCOLA.**

Titlul lucrării de licență:

Evaluarea coroziunii a tablelor zincate pe platforma Arcelor Mittal Galati.

Conducător științific: Prof. univ. dr. Lidia BENEĂ.

Sesiunea: iulie 2015.

Domeniul **Ingineria Materialelor.**Specializarea: **Știința Materialelor.****2. Student Gigi BORDEIANU.**

Titlul lucrării de licență:

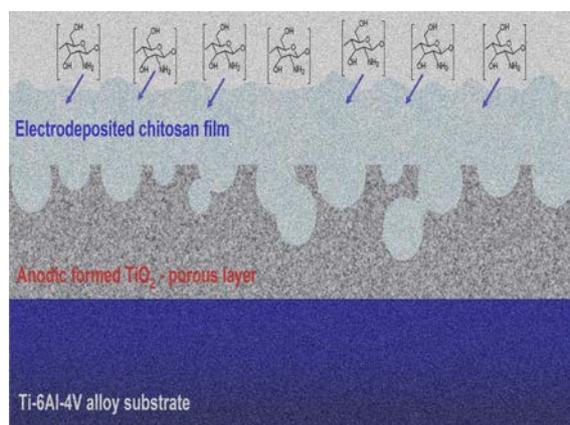
Purificarea apelor uzate prin metode electrochimice.

Conducător științific: Prof. univ. dr. Lidia BENEĂ.

Sesiunea iulie 2015,.

Domeniul: Ingineria Mediului.

Specializarea: Ingineria și Protecția Mediului în Industrie.



**Director proiect,
Prof. univ. dr. Lidia BENEĂ**

30 noiembrie 2015

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