

# Centrul de cercetare IEETE - Craiova

## Lista lucrari elaborate si tiparite in cadrul Centrului de Cercetare in 2008-2012

### Inginerie Electrica

1. G. A. Cividjian, 2008, Initial magnetic field distribution around rectangular busbars, *Annals of the University of Craiova, Electrical Engineering series, no. 32, 2008*, pp. 68 - 71. ISSN 1842-4805, Universitaria, , 9-th Int. Conf. On Applied and Theoretical Electricity, ICATE 2008.
2. A. I. Dolan, G. A. Cividjian, 2008, Numerical determination of rectangular busbars transient parameters, *Annals of the University of Craiova, Electrical Engineering series, no. 32, 2008*, pp. 210 - 215. ISSN 1842-4805, Universitaria, , 9-th Int. Conf. On Applied and Theoretical Electricity, ICATE 2008.
3. G. A. Cividjian, 2009, Permeance of fringing flux, *IEEE Transaction on Magnetics*, vol. 45, Issue 2, (Feb. 2009), pp. 694-700, ISSN: 0018-9464.
4. G. A. Cividjian, A. Dolan, I. Yatchev, K. Hinov, 2009, On tractive force of plunger-type magnet, *XVI-th Int. Symp. on Electrical Apparatus and Technologies, SIELA 2009*, Bourgas, Bulgaria, 4-6 June 2009, Proceedings vol. I, 63-70, ISBN 978-954-323-530-8. <http://siela.tu-sofia.bg/>
5. G. A. Cividjian, 2009, New formulas for corner and constriction parameters, *4-th Int. PhD Seminar on Computational electromagnetics and bioeffects of electromagnetic fields, CEMBEF 2009*, August 28-30, 2009, Niš, Serbia, Proceedings of full papers, pp. 36-45. ISBN 978-86-85195-82-2. <http://phdseminar09.elfak.ni.ac.rs/>
6. E. Matagne, G. A. Cividjian and Virginie Kluyskens 2009, Exact expression of corner reluctances in a magnetic circuit of rectangular section, *ISEF 2009 - XIV International Symposium on Electromagnetic Fields in Mechatronics, Electrical and Electronic Engineering, Arras, France, September 10-12, 2009*, Book of digests, ISEF 09, ARRAS (France), pp. 77-78, ISBN: 978-2-84832-111-0, Id-020. <http://www.lsee.fr/isef09/>
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8. G. A. Cividjian, E. Matagne, 2010, Resistance of arbitrary angle corner, *Przegląd Elektrotechniczny (Electrical Review)*, ISSN 0033-2097, 86, Nr. 5/2010, pp. 83-86.
9. C. F. Ocoleanu, G Manolea, G. Cividjian, 2010, Experimental study of contact resistance variation for pantograph-contact line contact, *Proc. of the Int. Conf. on RISK Management, assessment and mitigation (RIMA '10)* Univ. Politehnica Bucharest, Romania, April 20-22, 2010, pp. 101-105, ISSN: 1790-2769, ISBN: 978-960-474-182-3. [www.wseas.org](http://www.wseas.org)
10. C. F. Ocoleanu, G Manolea, G. Cividjian, C. A. Bulucea, 2010, Numerical Study of Thermal Field of Pantograph Contact Strip-Contact Line Wire Assembly, *4th WSEAS International Conference on energy planning, energy saving, environmental education (EPESE'10). 4th WSEAS International Conference on renewable energy sources (RES '10)*, Kantaoui, Sousse, Tunisia, May 3-6, 2010. ISSN: 1790-5095, ISBN: 978-960-474-187-8, [www.wseas.org](http://www.wseas.org)
11. G. A. Cividjian, Dumitru Broscareanu, 2010, Thermal field propagation in one, two and threedimensional half space, *Peoceedings of XI-th International Workshop on Optimization and Inverse Problems in Electromagnetism*, September 14 – 18, 2010, Sofia, Bulgaria, ISBN 978-954-438-855-3, pp. 23-24. <http://oipe.tu-sofia.bg/conftool3/>
12. G. A. Cividjian, Dumitru Broscareanu, Dorin Popa, 2010, On laser spark aided lightning protection, *Annals of the University of Craiova, Electrical Eng. Series. No. 34, 2010*, ISSN 1842-4805, pp.152-155.
13. Dumitru Broscareanu, G. A. Cividjian, 2010, On the ampacity of insulated conductors in conduit, *Annals of the University of Craiova, Electrical Eng. Series. No. 34, 2010*, ISSN 1842-4805, pp.148-152.
14. C. F. Ocoleanu, G Manolea, G. A. Cividjian, Alin Dolan 2010, Study of unevenness height distribution for graphite pantograph contact strip, *Annals of the University of Craiova, Electrical Eng. Series. No. 34, 2010*, ISSN 1842-4805, pp.119-124.
15. E. Matagne, G.A. Cividjian, V. Kluyskens, 2011, Exact expression of T-reluctances or resistances in a circuit of rectangular section, *ISEF 2011 - XV International Symposium on Electromagnetic Fields in Mechatronics, Electrical and Electronic Engineering Funchal, Madeira, September 1-3, 2011*, ISBN : 978-972-8822-24-8. PS.1.14, (Programme, p. 47). <http://www.apdee.org/index.php?pageid=1379>

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18. Alin-Iulian Dolan, G. A. Cividjian, 2012, Numerical solution for initial magnetic field distribution around rectangular bus bars, *XVII-th Int. Symp. on Electrical Apparatus and Technologies, SIELA 2012*, Bourgas, Bulgaria, 28-30 May 2012, Proceedings vol. I, 98-105, ISSN 1314-6297. <http://siela.tu-sofia.bg/>
19. G. A. Cividjian, 2012, Deep Slot Constriction Conductance, *Annals of the University of Craiova, Electrical Eng. Series*. No. 36, 2012, ISSN 1842-4805, pp.84-87, 11th International Conference on Applied and Theoretical Electricity ICATE 2012, Craiova, October 25-27, 2012,  
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20. **Digă, S. M.**, Velea, F., Nicola, M., Rușinaru, D., Bratu, C., *Aspecte moderne privind eficientizarea instalațiilor de legare la pământ a aparatajului din stațiile electrice*, În: Tehnologiile energiei - Producerea, Transportul și Distribuția Energiei Electrice și Termice, ianuarie 2009, Anul 42, Nr. 1, Revistă de specialitate recunoscută de CNCISIS, categoria B+ ([www.icemenerg.ro](http://www.icemenerg.ro)), pag. 26 – 32, ISSN: 1842-7189, Editura ICEMENERG.
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24. **Digă, S. M.**, Sîrbu, I. G., Ivanov, V., Brojboiu, M., *Aspects spécifiques au calcul du flux lumineux émis par les luminaires*, 7th International Conference on Electromechanical and Power Systems – SIELMEN 2009, October 8-9, 2009, Iași, România. În: Analele Universității din Craiova, Seria : Inginerie electrică, Anul 33, nr. 33, 2009, pag. 68-72, ISSN 1842-4805.
25. [1] **Digă, S. M.**, Velea, F., Rușinaru, D., Bratu, C., *Modern Aspects Regarding the Efficiency's Improving of Earthing Installation of the Substations' Apparatus*, REGIONAL ENERGY FORUM, FOREN 2008, Section no: 3 Electricity Transportation and Distribution Grids, Neptun, 15-19 iunie 2008, Nr. cod: S3-26.
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36. [12] **Digă, S. M.**, Rușinaru, D., Digă, N., Velea, F., *Modern Aspects of Calculation for the Efficient Utilization of Electric Energy by Reactive Power Compensation*, WEC CENTRAL & EASTERN EUROPE ENERGY FORUM – FOREN 2012, Neptun-Olimp, Romania, 17-21 June 2012, Poster Session, Reference no: sp-50-en, ISBN 978-973-720-327-4.
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## Carti

1. S. Wiak, E. Napieralska-Juszak, (ed.) *Computer field models of electromagnetic devices*, IOS press, Amsterdam, Berlin, Oxford, Tokyo, Washington DC, 2010, 935 p.: 4.5. 2009, *Exact expression of corner reluctances in a magnetic circuit of rectangular section*, E. Matagne, G. A. Cividjian and Virginie Kluyskens, pp.134-142.
2. F. T. Tanasescu, Mircea Bologa, Radu Cramariuc, Alexandru Bologa, Bogdan Cramariuc, *Electrotehnologii, Protecția mediului, procesarea de materiale și control nedestructiv*, Editura AGIR, București, 2011, 764 p. ISBN: 978-973-720-353-3, Natalia Cividjian, Grigore Cividjian, Cap. 12: Bazele fizice ale fenomenului de emisie acustică, pp. 549-598.

## Tehnologii ecologice

### A. Carti, Monografii, POLMEDJIU

1. Bazinul mijlociu al Jiului. Implicatii de mediu si sociale ale industriei extractive si energetice. Studiu monografic. Co-ordonator, **Corneanu M.**, Eds. **G.C. Corneanu, M. Corneanu, C. Nețoiu, C. Crăciun**, Gh. Gămănesci, A.-R. Lăcătușu, I. Marinică, (Edit. Universitaria Craiova, 2011). ISBN: 978-606-14-0306-6.

### B. Lucrari tiparite integral

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2. **M. Corneanu, G.C. Corneanu, C. Hernea, M. Niculescu, C. Netoiu, D. Posta, I. Sarac, A. Petcov**, 2008 - Studies on the flower and leaves variability in *Robinia pseudoacacia* genotypes of South Oltenia, An. Univ. Craiova. Agricultura, Montanologie, Cadastru, Lucrari stiintifice, vol. **XXXVIII/B**: 111-119. Edit. Universitaria Craiova. ISSN: 1841-8317.[**BID**]
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6. **Corneanu G.C., Corneanu M.**, Craciun C., Lazau C., Grozescu I., 2009 – The TiO<sub>2</sub> nanoparticles effect on the ultrastructural features of the *Allium sativum sagittatum* callus. In: New Applications of Micro-and Nanotechnologies, 14 (Eds. Maria Zaharescu, Liviu Giurgiu, Dan Dascalu), pp. 140-148. Edit. Academiei Romane, Bucuresti. ISBN: 978-973-27-1803-2.[**BID**]
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25. **M. Corneanu, G.C. Corneanu**, A. Ardelean, C. Lazau, I. Grozescu, N.G. Hadaruga, D.I. Hadaruga, L. Barbu-Tudoran, 2011 - The radiobiological effect of the TiO<sub>2</sub> cyclodextrin suspension, ICQNM 2011: The Fifth International Conference on Quantum Nano and Micro Technologies (Eds.: Vl. Privman, Victor Ovchinnikov), 8 pp. [ISI]
26. **Corneanu C. Gabriel**, Crăciun C., **Corneanu Mihaela**, Lazău Carmen, Grozescu Ioan, Tripon Septimiu, 2012 – The animal eukaryote cell interaction with doped TiO<sub>2</sub> nanoparticles. In: Seria: Micro and Nanoengineering, vol. 19: Nanomaterials and nanostructures for various applications (Eds. Gheorghe Brezeanu, Horia Iovu, Cornel Cobianu, Dan Dascălu), Edit. Academiei Române, București, pp. 173-192. ISBN: 978-973-27-2169-8. [BID]
27. **Corneanu M., Corneanu G.**, Cojocaru L., Lacatusu A.-R., 2012 – Investigations to detect ecosystem disturbances under the influence of anthropogen factors. Muzeul Olteniei Craiova, Oltenia. Studii si comunicari. Stiintele Naturii, **28** (2): 219 – 228. ISSN: 1454-6914. [BID]
28. **Corneanu M., Corneanu C.G.**, Craciun C., Cojocaru L., Lacatusu A.-R., 2012 – The radionuclide's and heavy metals effect on the leaves ultrastructural features in *Helianthus annuus* L. In: An. Univ. Craiova, Agric.-Mont.-Cadastre, **42** (1): 11 pp. (under printing). ISSN: 2066-950X. [BID]
29. Barbat A.C., Caraion-Buzdea C., Corici M., Cristian G., Gotia C., **Corneanu M.**, 2012 – Residentes perception of coal industry long-term pollution in the Jiu Middle valley (Romania): premise for environmental educagtion. Procedia–Social and Behaviour Sciences, **46**: 870-874. [ISI]

**C. Lucrari prezentate la manifestari stiintifice si tiparite sub forma de rezumat, in volumele editate (cu bold, manifestari in strainatate)**

1. **Corneanu Gabriel**, Craciun Constantin, **Corneanu Mihaela**, Lazau Carmen, Grozescu Ioan, 2008 – Efectul nanoparticulelor TiO<sub>2</sub>-Pt asupra caracteristicilor ultrastructurale ale calusului la *Allium sativum sagittatum*. In: A 7-a editie a Seminarului national de nanostiinta si nanotehnologie. Rezumatele lucrarilor: 18. Academia Romana si INCD pentru Microtehnologie, Bucuresti.
2. **Corneanu Mihaela, Corneanu Gabriel**, 2008 – Utilizarea fluidelor nano-magnetice in rizogeneza *in vitro* a speciilor lemnoase. In: A 7-a editie a Seminarului national de nanostiinta si nanotehnologie. Rezumatele lucrarilor: 19. Academia Romana si INCD pentru Microtehnologie, Bucuresti.
3. **Corneanu C.G., Corneanu Mihaela**, 2008 - Utilizarea mutatiilor cromosomiale pentru detectarea agentilor mutageni in mediul ambiant. In: Buletinul SNBC, **36**, pp. 14. Edit. Risoprint, Cluj-Napoca, ISSN: 1584-5532.
4. **Corneanu C.G., Corneanu Mihaela**, Lazau Carmen, 2008 – Actiunea TiO<sub>2</sub> asupra cromosomilor la eucariote. In: Buletinul SNBC, **36**, pp. 115. Edit. Risoprint, Cluj-Napoca, ISSN: 1584-5532.
5. **Corneanu M., Corneanu G., Netoiu C., Hernea A., Butnaru G., Posta D., Sarac I., Gradinaru M., Niculescu M.**, 2008 – Studies on *Robinia pseudoacacia* South Romania genotypers variability. In: Genetics – Understanding Living Systems. XX International Congress of Genetics, Berlin, Germany. Abstract Book, pp. 81-82. [www.genetics-berlin2008.com](http://www.genetics-berlin2008.com)
6. **Corneanu C.G., Corneanu M., Lazau C., Grozescu I.**, 2008 – The TiO<sub>2</sub> nanoparticles effect on the mitotic apparatus in plants (*Allium sativum* L. and *Nigella damascena* L.). In: Genetics – Understanding Living Systems. XX International Congress of Genetics, Berlin, Germany. Abstract Book, pp. 185. [www.genetics-berlin2008.com](http://www.genetics-berlin2008.com)
7. **Corneanu C.G.**, Craciun C., **Corneanu M.**, Zagnat M., Stefanescu I., 2008 – Efectul stresprotector al DDW si al polifenolilor in experimente pe *Mus musculus*. In: A IV-a Conferinta a Societatii Romane de Genetica Medicala. Volum de rezumate. Editura Sitech, Craiova, pp. 45. ISBN: 978-973-746-982-3.

8. **Corneanu C.G., Corneanu Mihaela**, 2008 – Researches in vegetal biotechnology: the use of magnetic fluids. In: The Scientific Conference with International Participation „Durable Agriculture – Agriculture of the Future” (The fourth edition), University of Craiova, Craiova, Romania. Book of Abstracts: pp. 61.

9. **Corneanu G., Corneanu M.**, Cojocaru L., 2009 – *Taraxacum officinale* a possible plant bioassay to evaluation soil pollution. In: Management and sustainable protection of environment, Book of Abstracts. Aeternitas Publ. House, Alba Iulia: 107-108. ISBN: 978-973-1890-30-2.

10. **Corneanu M., Corneanu G.**, Cojocaru L., 2009 – The evaluation of soil genotoxicity by modified *Allium* test. In: Management and sustainable protection of environment, Book of Abstracts. Aeternitas Publ. House, Alba Iulia: 109-110. ISBN: 978-973-1890-30-2.

11. **Corneanu Mihaela, Corneanu G.**, 2009 – Radionuclizi de risc produci de industria energetica si evaluarea actiunii lor la nivel celular. Buletinul SRBC, **37**: 39. *Vasile Goldis* University Press, Arad (Eds. C. Craciun, G.G. Pribac). ISSN: 1584-5532.

12. **Corneanu C. Gabriel**, Craciun Constantin, **Corneanu Mihaela**, Tripon Septimiu, 2009 – Caracteristici structurale ale frunzei la *Robinia pseudoacacia* var. *oltenica*, cultivata pe terenuri degradate (halde de steril). The Scientific Conference with International Participation – Durable Agriculture – Agriculture of the future. The fifth ed., Book of Abstracts, University of Craiova, pp. 60.

13. **Corneanu M.**, Radutoiu D., **Corneanu G.**, Lacatusu A., Cojocaru L., 2010 – Refacerea naturala a vegetatiei pe haldele de steril de la exploatare carbonifere. Sesiunea stiintifica de primavara a AOSR, Neptun Comorova, 20-22 mai 2010. Abstracts Book.

14. **Corneanu G.**, Craciun C., **Corneanu M.**, Cojocaru L., Hernea C., 2010 – Specii forestiere utilizate in procesul de fitoremediere. Sesiunea stiintifica de primavara a AOSR, Neptun Comorova, 20-22 mai 2010. Abstracts Book.

15. **Corneanu M., Corneanu C.G.**, Zagnat M., Atyim P., 2011 – Stressprotective substances extracted from seeds of some *Nigella sativa* L. genotypes (*Ranunculaceae* family). The Second National Congress with International Participation of Integrated Medicine „Informational Medicine in Actual Holistic Concept”, Abstracts, Bucharest, pp. 47-48 (91 pp.).

16. **Corneanu M.**, Butnariu M., Danci O., **Corneanu G.**, 2011 – Phenotypic variability, enzymatic and antioxidant activity in some basil (*Ocimum basilicum* L.) Romanian landraces. The Second National Congress with International Participation of Integrated Medicine „Informational Medicine in Actual Holistic Concept”, Abstracts, Bucharest, pp. 74-75 (91 pp.).

17. XX-a Conferinta Nationala cde Stiinta Solului, Prezentat, tiparit doua lucrari sunb forma de rezumat in Anstract Book. Craiova, 26 august-1 septembrie 2012.

18. XX-a Conferinta Nationala cde Stiinta Solului, Prezentat, tiparit doua lucrari sunb forma de rezumat in Anstract Book. Craiova, 26 august-1 septembrie 2012.

19. Corneanu M., Corneanu C.G., Craciun C., Tripon S., 2012 – The interaction of heavy metals and radionuclide’s with the cell organelles in *Zea mays* L. leaves. In: 41<sup>st</sup> Annual Meeting of ESNA Aabstracts Book, Stara Lesna, Slovak Republic. 24-29 September 2012.

20. Corneanu M., Butnariu M., Petcov A., Danci O., Sarac I., Corneanu G., 2012 - Evaluation of some romanian maize landraces to heavy metals (Cd, Pb, Ni). In: 41<sup>st</sup> Annual Meeting of ESNA Aabstracts Book, Stara Lesna, Slovak Republic. 24-29 September 2012.

**D. Manifestari stiintifice la care s-a participat cu prezentarea de lucrari stiintifice (cu bold, manifestarile stiintifice din strainatate)**

1. A 7-a editie a Seminarului national de nanostiinta si nanotehnologie. Bucuresti, 20 martie 2008. Academia Romana si INCD pentru Microtehnologie.  
Prezentat doua lucrari (tiparite rezumatele si o lucrare integral in volum)
2. A XXXIV Sesiune Anuala a SNBC, Cluj-Napoca, 12-15 iunie 2008.  
Prezentat 3 lucrari (tiparit rezumatele, ulterior integral in volum).
3. **XX International Congress of Genetics, Berlin, Germany, 12-17 July, 2008. Genetics - Understanding Living Systems.**  
**Prezentat 2 lucrari (tiparit rezumatele in volum).**
4. **XXXVIII ESNA Annual Meeting, Kraków – Poland. 27-31 August 2008.**  
**Prezentat 2 lucrari in sesiune orala (vor fi tiparite integral in volum).**
5. International Symposium „Sustainable Horticulture – Priorities and Perspectives”. University of Craiova, Faculty of Horticulture. Craiova, October 24-25, 2008.  
Prezentat 1 lucrare (tiparita integral in volum).
6. The Scientific Conference with International Participation „Durable Agriculture – Agriculture of the future” (the fourth edition). Craiova, 28-29 November 2008.  
Prezentat 2 lucrari (tiparit rezumatele si integral in volum).
7. International U.A.B. – B.En.A. Conference: Management and Sustainable Protection of Environment. Alba Iulia, Romania, 6-7 May 2009.  
Prezentat 2 lucrari (tiparit rezumatele in volum, iar ulterior lucrarile integrale).
8. A XXVII-a Sesiune Stiintifica Anuala a SRBC. Bistrita 11-14 iunie 2009.  
Prezentat 2 lucrari (tiparit rezumatele in volum).
9. Sesiunea Stiintifica Internationala „Muzeul si Cercetarea Stiintifica”, Muzeul Olteniei Craiova, Sectia Stiinte ale Naturii, Craiova, Septembrie 24-26 2009. Prezentat 2 (3 Mihaela) lucrari. Una tiparita integral in volum.
10. The Scientific Conference with International Participation „Durable Agriculture – Agriculture of the future” The fifth ed., University of Craiova, 20-21 November 2009.  
Prezentat 1 lucrare (tiparit rezumatul in volum, iar lucrarea integrala format CD; ulterior pe hartie).
11. Sesiunea stiintifica de primavara a AOSR. Neptun-Comorova, 20-22 mai 2010. Prezentat doua lucrari, tiparite integral in volum.
12. Sesiunea stiintifica de toamna a AOSR. Mioveni, jud. Arges. Toamna 2009. Prezentat 2 lucrari, tiparit rezumatele in volum.
13. The Second National Congress with International Participation of Integrated Medicine, „Informational Medicine in Actual Holistic Concept”. Bucharest, 2-5 November, 2011. INMCA Prof. Dr. Florin Bratila”. Prezentat, tiparit rezumatele a doua lucrari.
14. A XX-a Conferinta Nationala de Stiinta Solului. Craiova, 26 August -01 Septembrie 2012. Prezentat oral doua lucrari (tiparit rezumat rezumatele in volum).
15. Sesiunea Stiintifica a Muzeului Olteniei, Sectia Stiinte Naturale. Craiova, 20-22 September 2012. Prezentat oral o lucrare (tiparita intergal in volum).
16. **41<sup>st</sup> Annual Meeting of ESNA, Stara Lesna, 24-29 September 2012. Prezentat oral doua lucrari (tiparirt rezumatele in volum; sub tipar lucrarea integrala).**
17. **Simposion Stiintific International „Protectia plantelor – probleme si perspective”. Chisinau, 30-31 octombrie 2012. Prezentat oral o lucrare: M. Corneanu - Conservarea biodiversitatii – un concept cheie pentru dezvoltarea durabila.**



## **E. Granturi de cercetare stiintifica**

1. Proiect de cercetare cu parteneri multipli, PC4 (programe complexe). Proiect 70/3263/2007, IMUNO-NANOMAT “Stabilirea actiunii si a efectelor stresprotectoare si/sau imunostimulatoare ale unor noi materiale biologice active”. Director proiect, C.P.1, dr. Ioan Grozescu, INC-DEMC, Timisoara. Valoare 2.000.000 RON. Director partener 1, Universitatea Craiova, **Corneanu Gabriel**, valoare 300.000 RON. [2008-2010]

2. Proiect CNCSIS: Studiul biologic complex comparativ al unor genotipuri valoroase de *Robinia pseudoacacia*. *Robinia pseudoacacia* var. *oltenica* – clona sau varietate? CNCSIS-Bucuresti, 2007-2008  
Director proiect : **Corneanu Mihaela** (USAMVB-Timisoara) ; **Corneanu G.C.** - Membru in colectiv.

3. Proiect de cercetare Parteneriate in domeniile prioritare, Programul 4. Proiect 30-125/2008, POLMEDJIU «Evaluarea efectelor poluarii si a schimbarilor climatice asupra biodiversitatii si starii socioeconomice a populatiei din bazinul mijlociu al Jiului ».

Director proiect, Prof. Dr. **Gabriel Corneanu**, Universitatea din Craiova. Director Partener 1 (USAMVB-Timisoara), **Corneanu Mihaela**. Finantare, CNMP-Bucuresti. Valoare 1.999.428 RON, perioada 2008-2011.