

**EUROPEAN
CURRICULUM VITAE
FORMAT**



PERSONAL INFORMATION

Name **EUGEN HNATIUC**

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Nationality Romanian

Date of birth 26 January 1947

WORK EXPERIENCE

- Dates (from – to) since 1969 – teaching staff at Faculty of Electrical Engineering, “Gheorghe Asachi” Technical University of Iasi:
 - since 1994 - full professor - „Gheorghe Asachi” Technical University Iasi
 - 1991-1994 - assoc. professor - „Gheorghe Asachi” Technical University
 - 1978-1991 – lecturer - Polytechnic Institute Iasi
 - 1969-1978 – assistant - Polytechnic Institute Iasi
 - 2012-2014 – professor – Apollonia University Iasi

Name and address of employer

- Type of business or sector Education at university level
- Occupation or position held Professor
- Main activities and responsibilities Teaching and research coordinating;

1999-2000,
Master CISMELED (Managementul mediului,
Gestiunea deseurilor Legislatie), Ecole des Mines
d’Ales (Franta),

EDUCATION AND TRAINING

- Dates (from – to) 1964-1969
- Name and type of organization providing education and training Faculty of Electrical Engineering, “Gheorghe Asachi” Technical University of Iasi
- Principal subjects/occupational skills covered Electro-mechanical Engineering
- Title of qualification awarded Engineer
- Dates (from – to) 1960-1964
- Name and type of organization providing education and training “Petru Rares” National College Piatra Neamt
- Principal subjects/occupational skills covered General Education
- Title of qualification awarded

**PERSONAL SKILLS AND
COMPETENCES**

MOTHER
LANGUAGE

ROMANIAN

OTHER LANGUAGES

FRENCH

- Reading skills
- Writing skills
- Verbal skills

good
good
good

RUSSIAN

- Reading skills
- Writing skills
- Verbal skills

good
good
good

ENGLISH

- Reading skills
- Writing skills
- Verbal skills

good
good
good

SOCIAL SKILLS AND COMPETENCES

Team spirit, helping initiative, cooperation, listening and acting, organizing international conferences.

ORGANIZATIONAL SKILLS
AND COMPETENCES

Program chair of the International Symposium on Physics of Switching Arc, FSO, Brno, Czech Republic

Program chair of the International Conference on Optimization of Electrical and Electronic Equipment, OPTIM, Brasov, Romania

Program chair of the International Conference on Electromechanical and Power Systems, SIELMEN, Iasi, Romania

Program chair of the International World Energy System Conference, WESC, Iasi, Romania

Participation in few European Projects in the frame of TEMPUS, CRAFT, AUF, BRANCUSI Programs

TECHNICAL SKILLS AND
COMPETENCES

With computers, specific kinds of equipment, machinery, etc.

Member of the Romanian Society: "Societatea Română de Protecție a Atmosferei" (SOROPA)

Member of the Romanian Society: "Societatea Română de Inginerie a Mediului și de Dezvoltare Durabilă" (SORIMDD)

Member of the Romanian Society: Asociația Română a Constructorilor de Mașini Electrice (ANCEM)

Member of the Romanian Society: "Club Maîtrise de l'Energie et de l'Environnement-Enseignement", France (CMEEE)

Member of the Romanian Society SETIS, Iasi

EXPERIENCE IN NATIONAL /
INTERNATIONAL PROGRAMS

1. Period: 1993-1994;

Project: Studiul posibilitatilor de ameliorare a performantelor surselor de alimentare a reactoarelor electrochimice pentru depoluare (The study of the possibilities of improving the control power supply of the electrochemical reactors for decontamination), Contract Nr.5002/7463/1993-587 B/1994, MCT

Function: Project responsible; 2. Period: 1997;

Project: Studiul posibilitatilor de masurare a puterii active a descarcarilor electrice de tip plasma rece (The study of the active power measurements possibilities of the cold plasma type electrical discharges), Research contract Nr.8120/ 09.06.1997 signed with SC TEHNOTON SA Iasi.
Function: Project responsible

3. Period: 2000;

Project: GRANT T Nr.6177 Gr./2000, Reactor pentru depoluarea aerului si apelor cu plasma rece (Reactor used for air and water decontamination using cold plasma).

Function: Participant; 4. Period: 1996;

Project: Program COPIRTECH of bilateral cooperation French-Romanian, Ameliorarea performantelor reactoarelor electrochimice cu plasma rece de tip GLIDARC vizând utilizarea lor la scara industrial (Improving the performances of the cold plasma GLIDARC electrochemical reactors considering their utilization to industrial scale, financed by ADEME (France), Orleans University.

Function: Responsible for Romania. 5. Period: 2000-2001;

Project: Program COPIRTECH, Dezvoltarea unei tehnologii curate pentru distrugerea poluantilor organici majori prin descarcari electrice (The development of a clean technology to destroy the major pollutants using electrical discharges, financed by ADEME (France), University of Rouen.

Function: Responsible for Romania. 6. Period: 2001-2002;

Project: Program COPIRTECH, Dépollution des odeurs à l'aide des décharges électriques type GLIDARC, financed by ADEME (France), Ecole des Mines d'Ales.

Function: Responsible for Romania. 7. Period: 2001-2002;

Project: Program FICU, Dégradation de molecules organiques polluantes dans des eaux de rejet domestique et industriel par décharges électriques, University of Rouen, financed by AUF.

Function: Responsible for Romania; 8. Period: 2002-2003;

Project: Program FICU, Limitation de solutés organiques polluants d'effluents liquide par plasma non thermique, University of Rouen, financed by AUF.

Function: Responsible for Romania. 9. Period: 2003-2004;

Project: Program of integrated actions PAI, BRÎNCUSI type, AUF, MEC decision from din 13.01.2003, Nr. 18033, Sistem de aprindere cu plasma pentru automobile (Plasma ignition system for automobiles), Centre universitaire de Bourges (France).

Function: Responsible for Romania. 10. Period: 2002-2004;

Project: European project CRAFT, VOC oxidation using electric discharges and catalytic bed, Contract Nr. G1ST-CT-2001-50147

Function: Participant;

BOOKS

1. Hnatiuc E. (coordinator), a.o., *Procédés électriques de mesure et de traitement des polluants*, Edition Lavoisier Tec& Doc, Paris, France, 2002, ISBN 2-7430-0578-5.
2. Hnatiuc E., *Ecologie generală. Legislație de mediu*, Editura SETIS Iași, 2008.
3. Hnatiuc E., *Electroecologie*, Editura SETIS Iași, 2009.
4. E. Hnatiuc, B. Hnatiuc, coauthors for the chapter *Decontamination of Chemical and Microbial Targets using Gliding Electrical Discharge* of the volume *Biological and Environmental Applications of Gas Discharge Plasmas*, Editor Graciela Brelles-Marino, California State Polytechnic University, Pomona, SUA, ISBN 978-1-60741-945-7, Nova Science Publisher, 2009.

PUBLICATIONS / ARTICLES

1. Doubla A., Burlica R., Hnatiuc E., Brisset J.L., *Elements d'un bilan energetique du fonctionnement du plasma d'arc rampant d'air humide*, Physical Chemistry News, 25, 2005, pp 135-137, ISSN :1114-3800
2. Tzagou-Sobze E.B., Moussa D., Doubla A., Hnatiuc E., Brisset J.L., *Gliding discharge-induced oxidation of a toxic alkaloid*, Journal of Hazardous Materials, Volum 152, issue 1, 21 March 2008, p. 446-449, ISSN 034-3894, www.elsevier.com/locate/jhazmat
3. R. Burlica, B. Hnatiuc and E.Hnatiuc, *The Effects of Gas Flow-rate on electrical parameters of Gliding arc discharges*, XVIIth Symposium on Physics of Switching Arc, 10-13 September, Brno 2007, Czech Republic, ISBN: 978-80-214-3370-0
4. Hnatiuc E., Cotea V., Burlica R., Hnatiuc B., Zanoaga C., Nicolau M, *The wine treatment and conditioning by cold plasma discharges*, XVIIth Symposium on Physics of Switching Arc, 10-13 September, Brno 2007, Czech Republic, ISBN: 978-80-214-3370-0
5. E. Hnatiuc, J- L. Brisset, B. Hnatiuc, R. Burlica, *About Electrochemical Reactors with Cold Plasma Discharges Engineering*, European Research in Cold Plasma Applications Conference, Iasi, 12-13 February, 2007, ISBN:978-973-0-04933-6
6. Hnatiuc B., Pellerin S., Burlica R., Hnatiuc E., *Electrical and physical proprieties of a gliding arc*, XVIIth Symposium on Physics of Switching Arc, 10-13 September, Brno 2007, Czech Republic, ISBN: 978-80-214-3370-0.
7. Hnatiuc E., Czernichowski A., Cormier J-M, Leonte P., Hnatiuc B., *New solutions for the increasing of performances of the cold plasma reactors used for air depollution*, XII-th Symposium on Physics of Switching Arc (FSO 96), Vol. I, Contributed Papers, 14 - 18 october 1996, Brno, Czech Republic, p. 175-178
8. Hnatiuc E., A. Czernichowski A., Leonte P., Hnatiuc B., *The Characteristics of the Commanded Cold Plasma Source*, XII-th Symposium on Physics of Switching Arc (FSO 96), Vol. I, Contributed Papers, 14 - 18 octombrie 1996, Brno, Czech Republic, p. 179-182.
9. Hnatiuc E., A. Czernichowski A., Beceanu M., Hnatiuc B., *Mathematical Model concerning the Form of Electrodes for an Electrochemical Reactor with Cold Plasma type GlidArc*, SAP&ETEP'97, Lodz, Poland, p. 395-397.
10. Hnatiuc E., Hnatiuc B., Czernichowski A., Cernat M., *The influence of the distance between electrodes to the electrical performances for an electrochemical reactor GlidArc type*, FSO'98, Czech Republic, p. 337-340.
11. Hnatiuc E., Czernichowski A., Ranaivosoloarimanana A., Hnatiuc B., Pastva P., *The power measure of an electrochemical discharge for an electrochemical reactor with cold plasma*, FSO'98, Czech Republic, p. 341-344.
12. Moras F., Seguin D., Benstaali B., Addou A., Chéron B.G., Hnatiuc E., Brisset J-L, *Interaction between a non thermal oxygenated plasma and aqueous solutions*, Proceedings 7th Int. Symposium High Pressure Low Temperature Plasma Chemistry "Hakone 7" (Greifswald, Germany, 2000), H.E. Wagner and J.F. Behnke Eds. Vol. 2., 398-401.
13. Hnatiuc B., Hnatiuc E., Burlică R., *A model concerning the dynamically behaviour of a cold plasma GLIDARC type*, XIV-th Symposium on Physics of Switching Arc, Vol. II, FSO Brno, Czech Republic, 2001, pp. 272-276.
14. Hnatiuc E., Burlica R., Hnatiuc B., Brisset J-L, *A new type of Electrochemical Reactor with a rotary cold Plasma Discharge*, XIV-th Symposium on Physics of Switching Arc, Vol. I, FSO Brno, Czech Republic, 2001, p. 64-68.
15. Hnatiuc E., Cheron B., Hnatiuc B., Burlica R., Brisset J-L, *Cold plasma electrochemical reactor with rotary discharge*, HAKONE VIII, juillet 2002, Pühajärve, Estonia, vol. 2, p. 379-382.
16. Hnatiuc E., Brisset J-L, Hnatiuc B., Burlica R., *Plasma sources for electrochemical*

reactors, Proceedings IUPAC, Congress ISPC 16, Taormina, Italia, iunie 2003, p. 745.

17. Doubla A., Abdelmalek F., Addou A., Hnatiuc E., Brisset J-L, *Temporal post-discharge reactions in the gliding arc treatment of aqueous solutions*, Proceedings IUPAC, Congress ISPC 16, Taormina, Italia, iunie 2003, p. 740.

18. Hnatiuc E., Brisset J-L, Hnatiuc B., Burlica R., Rusu I., *New trends in plasma sources, Plasma reactor engineering and applications of non-thermal plasmachemical reactors*, XV-th Brno, Czech Symposium on Physics of Switching Arc, Invited Papers, FSO Rep. 2003, p. 297.

19. Hnatiuc E., Furnica Em., Hnatiuc B., Chiriac A., Czernichowski A., *New solutions for increasing the efficiency of the cold plasma electrochemical reactors*, OPTIM'96, Proceedings of the V-th International Conference on optimisation of electric and electronic equipments", 15-17 mai 1996, Braşov, România, p. 679-684.

20. Hnatiuc E., Hnatiuc B., Sistem multielectrod pentru realizarea reactoarelor electrochimice cu plasmă rece și circuit pentru comanda și reglarea funcționării acestora (Multiple-electrode system for cold plasma electrochemical reactors construction and circuit for control and adjustment of the reactors), Brevet Nr. 112225B, 1996.