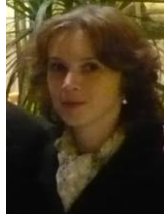




Europass Curriculum Vitae



Personal information

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Telephone(s) +021 4029486
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E-mail gabrielaoprina@yahoo.com
Nationality Romanian
Date of birth 23.11.1978
Gender Female

Desired employment / Occupational field

Scientific research

Work experience

Dates	March 2004 onwards
Occupation or position held	Scientific researcher III, Department of Efficiency in Energy Conversion and Consumption
Main activities and responsibilities	Research and documentation in hydro-gas-dynamics and environmental engineering, especially in water aeration field; national and international research projects proposals; studies and practical applications in hydro-gas-dynamics and environmental engineering
Name and address of employer	INC DIE ICPE-CA, Splaiul Unirii, 313, sector 3, Bucharest, Romania
Type of business or sector	Research and development in Electrical Engineering
Dates	February 2004 onwards
Occupation or position held	Associated assistant professor
Main activities and responsibilities	Theoretical and practical applications of Fluid Mechanics
Name and address of employer	POLITEHNICA University of Bucharest, Splaiul Independenței, 313, sector 6, Bucharest, Romania
Type of business or sector	Education
Dates	July 2003 – October 2003
Occupation or position held	Assistant manager
Main activities and responsibilities	Client service, price quotations, marketing studies, secretariat
Name and address of employer	ITOH Trading SRL, Braziliei street, 19A, sector 1, Bucharest, Romania
Type of business or sector	Distribution and marketing

Education and training

Dates	November 2003 – November 2007
Title of qualification awarded	PhD Diploma in Power Engineering
Principal subjects/occupational skills covered	Thesis title <i>Contributions to porous diffusers hydro-gas-dynamics</i> ; Hydraulics, Environment protection, Water aeration – competence achieved by performing research activities in these fields, studies and practical applications concerning hydrodynamics and mass transfer in dispersed aeration
Name and type of organisation providing education and training	POLITEHNICA University of Bucharest, Power Engineering Faculty

Level in national or international classification	ISCED 6 (International Standard Classification of Education)																																								
Dates	October 2003– June 2004																																								
Title of qualification awarded	Diploma of Advanced Studies in the field of Thermo-mechanics of thermal machineries																																								
Principal subjects/occupational skills covered	General background of concerning the thermal machineries																																								
Name and type of organisation providing education and training	POLITEHNICA University of Bucharest, Mechanical and Mechatronics Engineering Faculty																																								
Level in national or international classification	ISCED 5 (International Standard Classification of Education)																																								
Dates	October 1998– June 2003																																								
Title of qualification awarded	Diploma of Engineer – Environmental engineering, spec. Environmental Engineering in Power Eng.																																								
Principal subjects/occupational skills covered	General and specific knowledge concerning Hydraulics and Environment protection																																								
Name and type of organisation providing education and training	POLITEHNICA University of Bucharest																																								
Level in national or international classification	ISCED 5 (International Standard Classification of Education)																																								
Personal skills and competences																																									
Mother tongue(s)	Romanian																																								
Other language(s)	English, French																																								
Self-assessment <i>European level</i> (*)																																									
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	(*) Common European Framework of Reference for Languages																																								
Social skills and competences	Team spirit, adaptability, conversable																																								
Organisational skills and competences	Project and team management skills (achieved by involvement and/or coordination of research projects, <i>Management of research projects</i> Certificate conferred by Romanian Ministry of Research and Education, National School of Political and Admin. Studies, obtained within contract 6062)																																								
Technical skills and competences	Good experience in using measuring and monitoring equipments in hydraulic and environmental protection fields; velocity, flow rate, pressure and noise level laboratory and site measurements (usage of Doppler 3D–Micro ADV velocimeter; oximeter + software for data monitoring and recording; pressure and flow rate acquisition, control and visualization system, noise-measuring meter)																																								
Computer skills and competences	Good experience of MS Office; world wide web; elementary knowledge of Photoshop, CorelDraw, CFD (Computational Fluid Dynamics)																																								
Other skills and competences	Certificate in Pedagogy acquired within Politehnica University of Bucharest after following the pedagogy courses and practical applications; Member of: NGO SPERIN (Society for Promotion of Renewable, Inexhaustible and New Energies), AGIR (The General Association of the Engineers in Romania), IAHR (International Association for Hydro-Environment Engineering)																																								
Driving licence	Category B vehicle																																								
Additional information	References available upon request																																								
Annexes	List of papers; List of research contracts																																								

Annex 1 – List of papers

1. Oprina G., Gheorghe F., Băran Gh., 2004, *Asupra funcționării difuzorilor poroși*, Rev. Hidrotehnica, nr. 4, p. 12-15, București, ISSN 0439-0962.
2. Băran Gh., Staicu D., Oprina G., 2004, *Utilizarea difuzorilor poroși în epurarea apelor uzate*, Lucrările celei de a treia Conferințe a Hidroenergeticienilor din România, Dorin Pavel, 27-29 mai, București, p. 161-166, ISBN 973-718-010-0.
3. Băran Gh., Oprina G., Bunea F., 2005, *The bubbles emission stability generated by porous diffusers*, Scientific Bulletin of the Politehnica University of Timisoara, Transactions on Mechanics Special issue, Timisoara, Romania, June 10 - 11, Tom 50 (64), p. 191-196, ISSN 1224-6077.
4. Oprina G., 2005, *Introduction to porous diffusers hydro-gas-dynamic*, International Conference for young professionals, Bucharest, June 15-17, p. 521-524, ISBN 973-0-03972-0.
5. Șeitan C., Nicolae S., Oprina G., 2005, *Physical-mechanical and hydrodynamic characterization of porous cordierite ceramic for air diffusers*, a IV-a Conferință națională "New research trends in materials science", Constanța, 6-8 septembrie.
6. Șeitan C., Nicolae S., Oprina G., septembrie 2005, *Cordierit porous ceramic for air diffuser*, Prima Conferință națională "Materiale electrotehnice și aplicații ale acestora", București.
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8. Băran Gh., Staicu D., Oprina G., Șeitan C., 2005, *The porous diffusers performance in situ optimising*, Conferința internațională Energie-Mediu, 20-22 octombrie, București, Ed. Universul Energiei, ISBN 973-86948-5-X.
9. Pincovschi, I., Mihai, M., Oprina G., Băran, Gh., *Oxygen Mass Transfer Model in Air-Water Dispersed Systems*, International Conference Energy-Environment, October 20-22, Bucharest, Ed. Universul Energiei, ISBN 973-86948-5-X.
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11. Băran Gh., Șeitan C., Nicolaie S., Oprina G., 2006, *New Technologies for Waste Water Aeration*, Proceedings of the 7th International Conference on Technology and Quality for Sustained Development, June, 25-27, Bucharest, ISBN 973-720-035-7.
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14. Panaitescu V. N., Oprina G., Bunea F., 2006, *About the movements of viscous fluids in contact*, Bulletin of the Transilvania University of Brașov, vol. 13(48), series B1, p. 291-297, ISSN 1223-9631.
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19. Cazacu M.D., Băran Gh., Bunea F., Oprina G., 2007, *Biogaz curat pentru utilizare în ferme mici și mijlocii*, Masă rotundă cu tematica *Utilizarea surselor regenerabile de energie în procesele industriale specifice IMM*, 8 iunie, București, UPB.
20. Oprina G., Bunea F., Băbuțanu C.A., Băran Gh., Staicu D., 2007, *Aspecte privind consumul de energie la aerarea cu bule fine*, Masă rotundă cu tematica *Utilizarea surselor regenerabile de energie în procesele industriale specifice IMM*, 8 iunie, București, UPB.
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23. Băran Gh., Băbuțanu C. A., Bunea F., Oprina G., 2007, *Optimizing the operation of biogas plants*, International Conference Energy-Environment, November 22 – 23, UPB Sci. Bull., Series C, Vol. 69, No. 4, p. 61-68, ISSN 1454-234x
24. Pincovschi I., Oprina G., Bunea F., 2007, *The effect of superficial gas velocity on bubble size distribution in diffused aeration*

- systems, International Conference Energy-Environment, November 22 – 23, Bucharest, UPB Sci. Bull., Series C, Vol. 69, No. 4, p. 465-472, ISSN 1454-234x
25. Băran, V. Pleșca, M. Pleșca, G. Oprina, F. Bunea, 2007, *Instalația de aerisire, vortexul și cavitația la aspiratorul unei turbine Francis*, Rev. Hidrotehnica nr. 9, p. 11-15, București.
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32. Băran Gh., Pincovschi I., Oprina G., F. Bunea, 2008, *Performanțe ale generatoarelor de bule fine*, Revista Hidrotehnica, vol. 53, nr. 3-4, p. 27-32, ISSN 0439-0962
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47. F. Bunea, S. Houde, G. D. Ciocan, Oprina G., Gh. Băran, I. Pincovschi, *Aspects concerning the quality of aeration for environmental friendly turbines*, 25th IAHR Symposium on Hydraulic Machinery and Systems, Timișoara, 2010, România, proceeding published by IOP Publishing Ltd., UK, available to the IOP Conference Series: Earth and Environmental Science (ISSN 1755-1315 Online), doi: 10.1088/1755-1315/12/1/012035.
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51. Bunea F., Ciocan G.D., Oprina G., Băran Gh., Băbuțanu C.A., 2010, *Hydropower impact on water quality*, The 1st International Water Quality Workshop, 30 septembrie 2010, București, *Environmental Engineering and Management Journal*, vol. 9, nr. 11, ISSN 1582-9596, pp. 1459-1464.
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Patents

1. Patent application – *Laboratory equipment for determining the hydrodynamic characteristics of bubble generators*, no. A/00549/16.07.2009
2. Patent application - *Simulator to determine the optimum parameters for transport containers of aquatic animals*, registration no. A/00977/14.10.2010.

Annex 2 – List of research projects

1. *Hidrodinamica și transferul de masă la coloane de bule fine cu aplicare în tehnologii avansate de mediu* – TEHNOMED, contract no. X2C05/2006-2008, AMTRANS, Finantare: Buget de Stat - MEC, 1447500 lei, member of the research team
2. *Optimizarea proceselor de transfer de oxigen prin utilizarea difuzorilor poroși în tehnologiile de epurare biologică*, contract nr. 301/2003-2005, MENER, Finantare: Buget de Stat - MEC, 11720 lei, member of the research team.
3. *Realizarea și atestarea difuzorilor ceramici poroși pentru oxigenarea apelor reziduale în stațiile de epurare din aglomerările urbane* – DIFUCEROXI, Contract nr. 411/2004-2006, MENER, 200000 lei, member of the research team.
4. *Mișcări relative în mașini și echipamente*, Grant CNCSIS, cod 1409, 2004-2006, 33400 lei, member of the research team.
5. *Hidrodinamica vârtejurilor și aplicații*, Consorțiu CNCSIS, cod 33, 2005-2007, 200000 lei, member of the research team.
6. *Studiul teoretic și experimental privind aerarea apelor uzate prin emisia de bule de aer cu ajutorul difuzorilor poroși*, contract CNCSIS, cod 326, type TD, 2005-2006, 9700 lei, project manager.
7. *Noi tehnologii ecologice de valorificare energetică a deșeurilor biodegradabile sub formă de gaze combustibile cu aplicare la stații de epurare mici*, Contract nr. 31-041/2007, valoare 1717000 lei, membru al echipei de cercetare.
8. *Curgeri axial simetrice induse*, Contract PNCDI2, type IDEAS, no. 232/2007, 711577 lei, member of the research team.
9. *Materiale, tehnologii, echipamente, sisteme, dispozitive pentru o inginerie electrică durabilă - MATER; capitolul Micro-instalații de conversie a energiei din surse regenerabile (eolian, solar, biomasa), pretabile zonelor izolate*, PN 06 30, Finantare: Buget de Stat – MEC, 2007-2008, 4000550 lei INCIE ICPE-CA, member of the research team.
10. *Inginerie electrică pentru societate - INGENIOS; chapter Componente și sisteme microelectromecanice (MEMS) realizate prin tehnologii specifice cu aplicații în medicină, microfluidică și în realizarea de micromotoare și microactuatori*, PN 09 35, Finantare: Buget de Stat – MEC, 2009-2011, 7268990 lei, INCIE ICPE-CA, internal no. PN09350101, responsible of *Sisteme de generatoare de microbule de aer* research team.
11. *Clean Acces in Calarasi-Silistra cross-border area*, Romania – Bulgaria Cross – Border Cooperation Programme 2007 – 2013 – member of the research team.