

PERSONAL INFORMATION

Ion V. Ion



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Sex Male | Date of birth 06/05/1962 | Nationality Romanian

WORK EXPERIENCE

- 2015 – present **Professor, Thermal Systems & Environmental Engineering Department**
 “Dunărea de Jos” University of Galați, Faculty of Engineering, 47 Domneasca St., 800008 Galati, Romania, www.stim.ugal.ro
 Education & research
 Business or sector Academic
- 2000 – 2015 **Associate Professor, Thermal Systems and Environmental Engineering Department**
 “Dunărea de Jos” University of Galați, Faculty of Engineering, 47 Domneasca St., 800008 Galati, Romania, www.tmt.ugal.ro
 Education & research
 Business or sector Academic
- 1996 – 2000 **Lecturer, Thermal Systems and Environmental Engineering Department**
 “Dunărea de Jos” University of Galați, Faculty of Engineering, 47 Domneasca St., 800008 Galati, Romania, www.tmt.ugal.ro
 Education & research
 Business or sector Academic
- 1990 - 1996 **Teaching assistant, Thermal Systems and Environmental Engineering Department**
 “Dunărea de Jos” University of Galați, Faculty of Engineering, 47 Domneasca St., 800008 Galati, Romania, www.tmt.ugal.ro
 Education & research
 Business or sector Academic
- November 2003-October 2004 **NATO Research fellow**
 Universidade do Minho, Mechanical Engineering Department, Portugal
 Campus de Azurém, 4800-058 Guimarães, www.dem.uminho.pt
 Research in the field of solar thermal energy and energy efficiency
 Business or sector Academic
- 1987 - 1990 **Mechanical engineer**
 Vard Tulcea, Romania
 8, Portului Street, 820242 Tulcea, Romania, www.vard.com
 Production & Technology Planning
 Business or sector Shipbuilding

EDUCATION AND TRAINING

- 2017 **Certificate**
 University “POLITEHNICA” of Bucharest
 Industrial energy audit
- 2006 - 2007 **Post-graduate Diploma**
 Faculty of Building Services, Technical University of Civil Engineering Bucharest, Romania
 Energy Audit in Buildings
- 1990 – 1999 **PhD degree**
 “Dunărea de Jos” University of Galați, Faculty of Mechanical Engineering, Romania
 Thermal Systems and Equipment

1981 – 1987 **Bachelor's degree**
 "Dunărea de Jos" University of Galați, Faculty of Mechanical Engineering, Romania
 Thermal Systems and Equipment

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
 Common European Framework of Reference for Languages

Communication skills ▪ good communication skills gained as researcher in an international and multicultural environment

Organisational / managerial skills ▪ organiser of national and international workshops;
 ▪ initiative, analytical judgement, ability to work under pressure, ethics and honesty;
 ▪ ability to use information and communication technology as a tool and resource.

Job-related skills ▪ good command of quality control processes (currently responsible for quality in my department);
 ▪ working with laboratory thermal equipment and machinery;
 ▪ experienced in Energy efficiency and conservation in buildings; Renewable energy systems, Solid waste processing, Air pollution control; Applied thermodynamics;
 ▪ national expert for evaluation of research project applications (CNCSIS and CNMP);
 ▪ evaluator within the ARACIS (Romanian Agency for Quality Assurance in Higher Education);
 ▪ referee for evaluation of the national projects and programmes - The National Science Fund of Bulgaria ,2008
 ▪ referee for evaluation of research project applications - Fund for Innovations and Technology Development of Macedonia, 2015;
 ▪ reviewer of the following journals:

- International Journal of Refrigeration
- Thermal Science Journal;
- Environmental Engineering Science Journal;
- Journal of Thermal Analysis and Calorimetry;
- International Journal of Energy and Environment;
- Environmental and Climate Technologies;
- Energy Proceedia;
- SAGE Open;
- Current Alternative Energy;
- Food Science and Applied Biotechnology;
- Bulgarian Chemical Communications;
- Facta Universitatis, Series: Mechanical Engineering.

Computer skills ▪ good command of Microsoft Office™ tools, Matlab

Driving licence ▪ B

ADDITIONAL INFORMATION

Selected publications

1. Ion V.I., Popescu F., Rolea G.G., *A biomass pyrolysis model for CFD application*, Journal of Thermal Analysis and Calorimetry, March 2013, Volume 111, Issue 3, pp. 1811-1815. <http://link.springer.com/article/10.1007/s10973-012-2552-7>
2. Ion V.I., Portinha Anibal, Martins Jorge, Teixeira Vasco, Carneiro Joaquim, *Analysis of the energetic/environmental performances of gas turbine plant - effect of thermal barrier coatings and mass of cooling air*, Thermal Science Journal, Vol. 13, 2009, No. 1, pp. 147-164. <http://thermalscience.vinca.rs/pdfs/2009-1/14-ion.pdf>
3. Ion V.I., Negoitã D.L., *Waste minimisation and recycling*, in Waste Recovery. Strategies, Techniques and applications in Europe, Editors Luciano Morselli, Fabrizio Passarini, Ivano Vassura, FrancoAngeli s.r.l, Milano, Italy, 2009, pag. 188-201. http://www.francoangeli.it/Area_PDFDemo/1810.1.39_demo.pdf

4. Martins J.G., Ribeiro B.S., Ion V. I., *Thermodynamic analysis of spark ignition engines using entropy generation minimisation method*, International Journal of Exergy, Vol. 6, No. 1, 2009, pp. 93-110. <http://www.inderscience.com/info/inarticle.php?artid=23347>
 5. Paraschiv S., Ion V.I., Paraschiv L.S., *Thermodynamic performance for the solar collector of a micro-combined cooling, heating and power system*, Environmental Engineering and Management Journal, September 2011, Vol. 10, No. 9, pp. 1311-1318. http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol10/no9/19_377_Paraschiv_11.pdf
 6. Badea N., Ion V.I., et al., *Renewable Energy Sources for the mCCHP-SE-RES Systems*, in *Design for Micro-Combined Cooling, Heating & Power Systems*, Editor Badea N., Springer 2014. <http://link.springer.com/book/10.1007/978-1-4471-6254-4>
 7. Ribickis L., Ion V.I., et al., *Energy Saving Technologies*, Riga Technical University, RTU Press, Riga, 2015.
 8. Belpaeme M., Garkusha K., Ion V.I., et al. *Heat pumps*, BSATU, Minsk, 2015.
 9. Paraschiv S., Ion V.I., Paraschiv L.S., *Thermodynamic performance for the solar collector of a micro-combined cooling, heating and power system*, Environmental Engineering and Management Journal, September 2011, Vol. 10, No. 9, pp. 1311-1318. http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol10/no9/19_377_Paraschiv_11.pdf
 10. Bălan M., Damian M., Jantschi L., Ion V.I., *Study concerning the influence of some working conditions, on the heat pumps performances*, Proceedings of the 35th International Symposium "Actual Tasks on Agricultural Engineering" Opatija, Croatia, 11 - 15 February 2008, pp. 535-544, <http://atae.agr.hr>
 11. Ion V.I., Balan M., Paraschiv S., Paraschiv L. S., *Optimal size of the auxiliary heating boiler in a trigeneration system*, 39th international symposium actual tasks on Agricultural Engineering Symposium Programme, Opatija, 22nd-25th February 2011. http://www.skupnostobcin.si/fileadmin/sos/datoteke/pdf/Barbara/ACTUAL_TASKS_ON_AGRICULTURAL_ENGINEERING_OPATIJA_2011.pdf
 12. Ion V.I., Ciocea Ghe., Popescu F., *Energy Saving and GHG Emission Reduction in a Micro-CCHP System by use of Solar Energy*, Environmental and Climate Technologies, vol. 10, (2012), pp 16-20. <http://www.degruyter.com/view/j/rtuuct.2012.10.issue-1/v10145-012-0020-z/v10145-012-0020-z.xml>
 13. Bălan M., Damian M., Ion V.I., *Considerations about the potential use of the geothermal energy for domestic heating in Romania*, Technical University of Cluj-Napoca, Acta Technica Napocensis, Series: Applied Mathematics and Mechanics, 50, Vol. IV, 2007, pp. 219-224. <http://www.atna-mam.utcluj.ro/id29.htm>
 14. Ion V.I., Paraschiv L.S., Vatachi N., Paraschiv S., *Use of agriculture residues for heating*, Technical University of Cluj-Napoca Acta Technica Napocensis, Series: Applied Mathematics and Mechanics, No. 52, Vol. II, 2009, pp. 169-176. <http://www.atna-mam.utcluj.ro/id35.htm>
 15. Mahu R., Popescu F., Ion V.I., *CFD Modeling Approach for HVAC Systems Analysis*, Chemical Bulletin of "Politehnica" University of Timișoara, Volume 57(71), 2, 2012. [http://www.chemicalbulletin.ro/Chemical-Bulletin-Issue_gif.htmlParaschiv L.S., Paraschiv S., Ion V.I., *Experimental and theoretical analyses on thermal performance of a solar air collector*, Environmental Engineering and Management Journal, August 2014, Vol.13, No. 8, 1965-1970. <http://omicron.ch.tuiasi.ro/EEMJ/issues/vol13/vol13no8.htm>](http://www.chemicalbulletin.ro/Chemical-Bulletin-Issue_gif.htmlParaschiv L.S., Paraschiv S., Ion V.I., Experimental and theoretical analyses on thermal performance of a solar air collector, Environmental Engineering and Management Journal, August 2014, Vol.13, No. 8, 1965-1970. http://omicron.ch.tuiasi.ro/EEMJ/issues/vol13/vol13no8.htm)
 16. Mahu R., Ion V.I., Popescu F., *Testing of improved boiler for biomass briquettes*, Proceedings of the 41 International Symposium on Agricultural Engine - Actual Tasks on Agricultural Engineering, 25 th – 28 th February 2013, Opatija, Croatia, pp. 336-342. <http://atae.agr.hr/proceedings.htm>
 17. Paraschiv S.L., Paraschiv S., Ion V.I., Vatachi N., *Techno-economic Analysis of the Emissions Reduction Technologies in the Thermal Power Plants in Romania*, Journal of Environmental Protection and Ecology (JEPE), Vol.14, No 2 (2013), pp. 770-780. <http://www.jepe-journal.info/journal-content/vol14-no-2-2013>
 18. Popa V., Ion V.I., Popa C.L., *Thermo-Economic Analysis of an Air-to-Water Heat Pump*, Energy Procedia, Vol. 85, January 2016, pp. 408–415. <http://www.sciencedirect.com/science/article/pii/S1876610215028866>
 19. Popescu F., R A Mahu R.A., Antonescu, N.A., Ion V.I., *CFD prediction of combustion in a swirl combustor*, IOP Conference Series: Materials Science and Engineering, 444 (2018) 082009 doi:10.1088/1757-899X/444/8/082009 <http://iopscience.iop.org/article/10.1088/1757-899X/444/8/082009/pdf>
 20. Frățița M, Popescu F, Uzuneanu K, Mereuță V, Ion V.I, *Fatigue analysis of the connecting rod in internal combustion engines*, IOP Conf. Series: Materials Science and Engineering 485 (2019) 012008IOP Publishingdoi:10.1088/1757-899X/485/1/012008 <https://iopscience.iop.org/article/10.1088/1757-899X/485/1/012008/pdf>
- NATO Science Fellowships-OUTREACH, NATO Advanced Research Fellowship CP(RO)03/B/03/PO, Universidade do Minho, Portugal, 13 November 2003-14 November 2004.

Honours and awards

- NATO Advanced Study Institute on Low-Temperature and Cryogenic Refrigeration – Fundamentals and Applications, 23 June-05 July 2002, Altin Yunus-Çeşme, İzmir-Türkiye/Turkey.
 - Tempus Individual Mobility Grant N°IMG 20 1027, 03 April - 02 July 1995, Università degli Studi di Padova, Italy.
 - Grundtvig in-service training course “European project planning”, GRU-08-MOF-50-GL-IT, Firenze, Italy, 30.06-06.07.2008 (Contract no. 19/06.06.2008)
- Visiting professor*
- Universidade Nova de Lisboa, Portugal, 2001, 2010.
 - Universidade do Minho, Portugal, 2003.
 - University of Stavanger, Norway, 2010.
 - Riga Technical University, Latvia, 2012.
- Memberships
- Romanian Society of Thermotechnics (SRT)
 - Romanian Association of Tensometry (ARTENS)
 - Society of Automotive Engineers of Romania (SIAR)
- References
- Prof. Jorge MARTINS, University of Minho, Department of Mechanical Engineering, Portugal, jmartins@dem.uminho.pt
 - Prof. Renaat De CRAEMER, Catholic University of Leuven, Faculty of Engineering Technology, Kulab, Belgium, renaat.decraemer@kuleuven.be
 - Prof. Iliya ILIEV, "Angel Kanchev" University of Ruse, Department of Heat, Hydraulics and Ecology, Agrarian and Industrial Faculty, Bulgaria, iiliev@enconservices.com
 - Prof. Lucian MIHAESCU, University “Politehnica” of Bucharest, Department of thermodynamics, engines, heating and refrigeration equipment, Romania, Imihaescu@caz.mecen.pub.ro
- Selected Projects
- EEAGRANTS RO-0054- Integrated micro CCHP – Stirling Engine based on renewable energy sources for the isolated residential consumers from South-East region of Romania (m-CCHP-SE), <http://www.mcchp.ugal.ro/index.php?lang=en>
 - BSB165-Creating a system of innovative transboundary monitoring of the transformations of the Black Sea river ecosystems under the impact of hydropower development and climate change (HydroEcoNex)
 - Danube Transnational Programme-DA-SPACE - Open Innovation to raise Entrepreneurship skills and Public Private Partnership in Danube Region
 - 530379-TEMPUS-1-2012-1-LV-TEMPUS-JP, Development of Training Network for Improving Education in Energy Efficiency - Energy
 - Leonardo Pilot Project I/05/B/F/PP-154181, Energy Conversion Systems and their Environmental Impact.
 - Project FCT-Fundação para a Ciência e Tecnologia, Portugal, 2004, Secagem de madeira por energia solar, Universidade do Minho, Portugal.
 - PN II, D21-015/14.09.2007, Romania’s contribution to the European goals on renewable energy sources development (Contribuția României la țintele europene privind dezvoltarea surselor regenerabile de energie) - PROMES
 - Contract no. 169CP1/29.08.2008 – Lab for numerical modelling in fluid dynamics (Laborator de modelare numerică în mecanica fluidelor) – CFDLAB