

PERSONAL INFORMATION

**Ion V. Ion**



+40740566214

ion.ion@ugal.ro

http://www.stim.ugal.ro/

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

WORK EXPERIENCE

- 2015 – present **Professor, Head of 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

- 2006 - 2007 **Post-graduate Diploma**  
 Faculty of Building Services, Technical University of Civil Engineering Bucharest, Romania  
 Energy Audit in Buildings
- 1990 – 1999 **PhD**  
 “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	B1	B2	B1	B1	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:  
• Thermal Science Journal;  
• Environmental Engineering Science Journal;  
• SAGE Open;  
• Environmental and Climate Technologies;  
• International Journal of Energy and Environment;  
• WSEAS Transactions on Systems;  
• ECOS 2015 - The 28th International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems;  
• -Journal of Thermal Analysis and Calorimetry.

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, Cameiro 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., Negoită 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](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](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](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](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/rtuect.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.html](http://www.chemicalbulletin.ro/Chemical-Bulletin-Issue_gif.html) Paraschiv 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, 2015.
  19. Dimofte E., Popescu F., Ion V.I., *A Review of Recent Research on Sand Dunes Formation*, Environmental Engineering and Management Journal, 2016.

#### Honours and awards

- NATO Science Fellowships-OUTREACH, NATO Advanced Research Fellowship CP(RO)03/B/03/PO, Universidade do Minho, Portugal, 13 November 2003-14 November 2004.
- 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)
- Romanian National Institute for Development Studies and Use of Energy Sources (IRE)
- General Association of Engineers in Romania (AGIR)

## References

- Prof. Jorge MARTINS, University of Minho, Department of Mechanical Engineering, Portugal, [jmartins@dem.uminho.pt](mailto:jmartins@dem.uminho.pt)
- Prof. Renaat De CRAEMER, Katholic University of Leuven, Faculty of Engineering Technology, Kulab, Belgium, [renaat.decremer@kuleuven.be](mailto:renaat.decremer@kuleuven.be)
- Prof. Iliya ILIEV, "Angel Kanchev" University of Ruse, Department of Heat, Hydraulics and Ecology, Agrarian and Industrial Faculty, Bulgaria, [iiliev@enconservices.com](mailto:iiliev@enconservices.com)
- Prof. Lucian MIHAESCU, Politehnica University of Bucharest, Department of thermodynamics, engines, heating and refrigeration equipment, Romania, [Imihaescu@caz.mecen.pub.ro](mailto:Imihaescu@caz.mecen.pub.ro)

## 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>
- 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*.
- Leonardo Pilot Project F/01/B/F/PP-118084 *Valorisation de l'expérience professionnelle dans les cursus européens de techniciens supérieurs – VALEURTECH*.
- Project FCT-Fundação para a Ciencia e Tecnologia, Portugal, 2004, *Secagem de madeira por energia solar*, Universidade do Minho, Portugal.
- Project FCT-Fundação para a Ciencia e Tecnologia, Portugal, 2003, *Thermodynamic optimization of spark ignition engines under part load conditions*, Universidade do Minho, Portugal.
- Project POCTI/EME/42121/2001, *Estudo dos Mecanismos de Combustão na Valorização Energética de Óleos Usados*, Universidade do Minho, Portugal.
- Project POCTI/EME/39316/2001, *PVDCOAT-Composite and multilayered protective coatings for efficient energy systems*, 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*