




PERSONAL INFORMATION

Vahida Selimbašić, Full Professor in Environmental Protection



 University of Tuzla, Faculty of Technology, Urfeta Vejzagića 8, 75000 Tuzla, Bosnia and Herzegovina  
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 [vahida.selimbasic@untz.ba](mailto:vahida.selimbasic@untz.ba)

Sex: Female | Date of birth: 15/01/1962 | Nationality: Bosnian

POSITIONS

Full Professor in Environmental Protection (University of Tuzla, Faculty of Technology, Bosnia and Herzegovina)

OCUPATIONAL FIELD

Environmental Engineering. Environmental Protection. Anaerobic Digestion. Composting. Ecological Agriculture, Waste and Wastewater Treatment.

WORK EXPERIENCE

From 21/03/2013. –

**Full Professor in Environmental Protection**

University of Tuzla, Faculty of Technology, Department of Environmental Protection Engineering, Urfeta Vejzagića 8, 75000 Tuzla, Bosnia and Herzegovina.

- Teaching and Research in Environmental Engineering and Protection. Teaching Courses: Ecological Agriculture, Transformation of Pollutants into the Environment; Wastewater Treatment, Processing of Waste Materials of the Food Industry, Environmental Management Systems, Monitoring the Environment, Ecology in Environmental Protection, Air, Water and Soil Management, Advanced Wastewater Treatment Technology, Environmentally Sustainable Energy Sources, Environmental Protection in Technological Processes.

Business or sector: Higher Education

From 10/03/2017 to 02/09/2018

**Dean of Faculty of Technology, University of Tuzla**

University of Tuzla, Faculty of Technology, Urfeta Vejzagića 8, 75000 Tuzla, Bosnia and Herzegovina.

- Faculty management activities

From 07/03/2012 to 07/03/2016

**Leader of University of Tuzla Publishing Centre**

University of Tuzla, Tihomila Markovića 1, 75000 Tuzla, Bosnia and Herzegovina

From 21/03/2007 to 21/03/2013

**Associate Professor in Environmental Engineering**

University of Tuzla, Faculty of Technology, Department of Environmental Protection Engineering

- Teaching and Research in Environmental Engineering and Protection. Teaching Courses: Environmental protection, Environmental protection basics, Waste management, Environmental pollutants, Environmental management systems, Environmental impact assessment, Pilot plants and wastewater treatment plants, Chemical industry and the environment, Waste management of the food industry, Waste management of the chemical industry, Waste water treatment of agricultural production, Waste water treatment, Biotechnology in environmental protection, Waste treatment and recycling, Environmental engineering, Environmental aspects of environmental improvement, Waste water treatment and gases, Environmental aspects of energy management, New technologies in energetic, Drainage and disposal water and rain water.

Business or sector: Higher Education

- From 11/04/2008 to 06/10/2010 **Vice dean for Scientific-Research Work**  
University of Tuzla, Faculty of Technology, Urfeta Vejzagića 8, 75000 Tuzla, Bosnia and Herzegovina.  
▪ Coordination of research work on science projects.  
Business or sector: Higher Education
- From 20/03/2002 to 21/03/2007 **Assistant Professor in Environmental Engineering**  
University of Tuzla, Faculty of Technology, Department of Environmental Engineering, Urfeta Vejzagića 8, 75000 Tuzla, Bosnia and Herzegovina.  
Teaching and Research in Environmental Engineering and Protection. Teaching Courses: Basics of chemistry of the environment, Environmental chemistry, Food industry and environment, Waste and recycling, Society and ecology, Environmental protection, Ecology, Waste treatment and recycling, Environmentally sustainable chemical processes.  
Business or sector: Higher Education
- From 26/02/1992 to 20/03/2002 **Senior Teaching Assistant in Environmental Protection**  
University of Tuzla, Faculty of Technology, Department of Environmental Protection, Urfeta Vejzagića 8, 75000 Tuzla, Bosnia and Herzegovina.  
▪ Teaching and Research in Environmental Protection.  
Business or sector: Higher Education
- From 06/01/1986 to 26/02/1992 **Teaching Assistant in Environmental Protection**  
University of Tuzla, Faculty of Technology, Department of Environmental Protection, Urfeta Vejzagića 8, 75000 Tuzla, Bosnia and Herzegovina.  
▪ Teaching and Research in Environmental Protection.  
Business or sector: Higher Education

## EDUCATION AND TRAINING

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### University Education

- 08/06/2001 **Ph.D in Environmental Engineering and Environmental Protection**  
University of Tuzla, Faculty of Technology, Department Environmental Protection Engineering, Urfeta Vejzagića 8, 75000 Tuzla, Bosnia and Herzegovina. Experimental research was done at the Department of Environmental Engineering Faculty of Agriculture, University of Lleida (Spain).  
▪ Thesis: Anaerobic digestion of highly concentrated organic waste. Department of Environmental Engineering and Protection
- 11/10/1991 **M.Sc. in Safety at Work and Environmental Protection**  
University of Tuzla, Faculty of Technology, Department of Environmental Protection, Urfeta Vejzagića 8, 75000 Tuzla, Bosnia and Herzegovina.  
▪ Thesis: Possibility to use gas chlorine with impurities in the production of propylene oxide
- 12/10/1984 **B.Sc. in Safety at Work and Environmental Protection**  
University of Tuzla, Faculty of Technology, Department of Environmental Protection, Urfeta Vejzagića 8, 75000 Tuzla, Bosnia and Herzegovina.

Mobility and Training

- From 15/05/2010 to 22/05/2010 Wageningen University and Research Centre, Netherlands  
Modernization of Environmental Science Education
- From 11/10/2010 to 14/10/2010 Agricultural University of Tirana, Albania  
Urban Wastewater Management
- From 10/11/2008 to 15/11/2008 UNESCO-IHI, Delft, Netherlands  
Cooperation and capacity building program between 6 universities in the Western Balkan and 3 universities in the Netherlands in the frame of NEWEN project
- From 02/06/2008/ to 08/06/2008/ Institut for Research Boden Like, Langenargen, Germany  
Management of Fresh Water and Water Treatment
- From 23/09/2007 to 28/09/2007 IPAK Institut, Velenje, Slovenia  
Management of Wastewater Treatment Plant
- From 22/08/2006 to 31/08/2006 Technical University of Riga, Latvia, Technical Faculty of Materials  
Management of Solid Waste Treatment
- From 21/06/ 2003 to 31/06/2003 University of Lleida, Spain, Faculty of Agricultural Engineering, Spain  
Treatment of Waste and Wastewater from Food Industry Water
- From May to July 1999 University of Lleida, Spain, Faculty of Agricultural Engineering, Department of Environmental Engineering  
Experimental research in the frame of doctoral dissertation (Advisor: Xavier Flotats, Associate Professor, University of Lleida, Spain)
- From September to December 1998 University of Lleida, Spain, Faculty of Agricultural Engineering, Department of Environmental Engineering  
Experimental research in the frame of doctoral dissertation (Advisor: Xavier Flotats, Associate Professor, University of Lleida, Spain)
- From May to July 1996 University of Lleida, Spain, Faculty of Agricultural Engineering, Department of Soil Science  
Soil Management

PERSONALS SKILLS

Mother tongue(s) Bosnian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B1	B1	B2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user  
Common European Framework of Reference for Languages

- Communication skills**
- Teaching and research experience and dissemination of knowledge at University
  - Presentation of research results at international conferences

- Organisational / managerial skills**
- Vice dean for Scientific-Research Work at Faculty of Technology, University of Tuzla
  - Head of Department of Environmental protection at Faculty of Technology, University of Tuzla
  - Head of the doctoral study at Faculty of Technology, University of Tuzla
  - Leader of University of Tuzla Publishing Center, University of Tuzla
  - Dean of Faculty of Technology, University of Tuzla

- Job-related skills**
- Excellent team works

- Computer skills**
- Excellent skills related to command of Microsoft Office tools (Word, Excel, PowerPoint, etc.).

**ADDITIONAL INFORMATION**
**Publications  
Selected journals papers**

- Saletovic, M., Cipurkovic, A., Horozic, E., Dozic, A., Selimbasic, V. (2017): Distribution of Some Elements in the Soil Where Echinacea is Cultivated, European Journal of Scientific Research, Vol. 146 No 2, pp. 194-202.
- Đozić, A., Selimbašić, V., Stuhli V., Zohorović, M., Alić, N. (2016): Determination of benzene concentrations as an indicator of air quality near coke plants Arcelor Mittal Zenica and Global Ispat Coke Industry Lukavac, Technologica Acta, Vol. 9 Number 2, pp. 5-19 Tehnološki fakultet, Tuzla.
- Cipurković, A., Tunjic, J., Selimbasic, V., Đozic, A., Trumic, I. (2014): Assessment of Heavy Metal Distribution and Contamination in Soils at Jala River Banks, European Journal of Scientific Research (EJSR), Vol. 127, No. 4. P. 392-405.
- Cipurkovic, A., Trumic, I., Hodžić, Z., Selimbasic, V., Djozic, A. (2014): Distribution of Heavy Metals in Portland Cement Production Process, Advances in Applied Science Research, Pelagia Research Library (online), Vol. 5, No. 6, p. 252-259.
- Đozić, A., Selimbašić, V., Cipurković, A., Tanjić, I., Uljić, M., Zohorović, M. (2014): Metal Pollution Assessment in Sediments of Spreča River, Technologica Acta, Vol. 7, No. 1, p. 69-79.
- Cipurkovic, A., Trumic, I., Selimbasic, V., Djozic, A., Tunjic, J., Djulovic Jusic, Z. (2014): Assessment of mercury pollution in soils along Jala and Spreča river banks in Bosnia and Herzegovina, Journal of Trends in the Development of Machinery and Associated Technology, vol. 18, No. 1, p.183-186.
- Đozić, A., Selimbašić, V., Cipurković, A., Crnković, A., Hodžić, Z. (2014): Heavy Metals in Dust Deposition in the Vicinity of Coal Ash Disposal Site Divkovići II, Journal of Life Sciences, USA. 8(5).
- Selimbašić, V., Marić, S., Petric, I., Đozić, A. (2012): Anaerobic batch fermentation of cattle manure: effect of ammonia. Journal of Environmental Protection and Ecology, Volume 13 (1), 211-218.
- Pelemiš D., Selimbašić V., Hodžić S., Stuhli V., Ilić T. (2011). The possibility of using sludge from the wastewater treatment process of the pulp and paper industry for compost production, Technologica Acta, Vol 5(2), 35-45.
- Cipurković, A., Selimbašić, V., Tanjić, I., Mičević S., Đozic, A., Čeliković, R. (2011): Heavy Metals in Sedimentary Dust in the Industrial City of Lukavac. European Journal of Scientific Research, Vol. 54, Issue 3.
- Selimbašić, V., Cipurković, A., Đonlagić, N., Stuhli, V., Đozić, A. (2011): Biological recultivation with mining waste material and intake of heavy metals, International Journal of Environmental protection and ecology (JEPE), Volume 1(1), 181-188.
- Cipurković, A., Selimbašić, V., Tanjić, I., Mičević S., Đozic, A., Čeliković, R. (2011): Heavy Metals in Sedimentary Dust in the Industrial City of Lukavac. European Journal of Scientific Research, Vol. 54, Issue 3.
- Selimbašić, V., Cipurković, A., Đonlagić, N., Stuhli, V., Đozić, A. (2011): Biological recultivation with mining waste material and intake of heavy metals, International Journal of Environmental protection and ecology (JEPE), Volume 1(1), 181-188.
- Selimbašić, V., Andrejaš, F., Đozić, A. (2010): Effect of volatile fatty acids on anaerobic fermentation of cattle manure at 35 °C, Faculty of Philosophy, University of Tuzla - Proceedings 33(10): 357-369 (ISSN 1521-6021).
- Petric, I., Selimbašić, V. (2008): Development and validation of mathematical model for aerobic composting process. Chemical Engineering Journal, Volume 139, Issue 2, 304-317.
- Petric, I., Selimbašić, V. (2008): Composting of poultry manure and wheat straw in a closed reactor: optimum mixture ratio and evolution of parameters. Biodegradation 19, 53-63.
- Selimbašić, V., Simičić, H., Bijedić, M., Petric, I., Begić, S. (2005): Effect of ammonia on anaerobic fermentation of cattle manure at mesophilic temperature, Technologica Acta 1 (2), 189-192.
- Selimbašić, V., Petric, I. (2004): Influence of substrate concentration on hydrolysis rate during anaerobic fermentation of cattle manure at thermophilic temperature, Technologica Acta 1 (1), 67-71.
- Selimbašić, V., Simičić, H., Petric, I., Flotats, X. (2004): Investigation of hydrolysis rate in anaerobic digestion of cattle manure, Proceedings, Faculty of Natural Science, University of Tuzla, 1, 271-279.
- Simičić, H., Selimbšić, V. (2002): Biodegradation of chlorinated hydrocarbon-containing wastewater using activated sludge, Hrvatske vode (40), 321-332.

## Selected conferences and conference proceedings papers

- Đozić, A., Selimbašić, V., Hodžić, N., Andrejaš, F., Stuhli, V., Alihodžić, H. (2017): Analysis of ambient concentrations of PM<sub>2.5</sub> and SO<sub>2</sub> in the urban area of Tuzla and Lukavac, Book of Proceedings, Fourth Scientific and Expert Symposium "Agricultural Production and Environmental Protection in Function of Rural Development", Tuzla, 2017. ISBN 978-9958-894-35-0
- Zohorović, M., Andrejaš, F., Stuhli, V., Selimbašić, V., Đozić, A., Salkić, M. (2016). Defining key parameters to control the anaerobic digestion of organic matter, 4<sup>th</sup> International Symposium on Environmental Management Towards Circular Economy, Book of proceedings, pp 202-207.
- Đozić, A., Selimbašić, V., Andrejaš, F., Stuhli, V., Hodžić, N., Nuhbegović, I. (2016): A novel approach for sustainable remedation and utilization of coal ash disposal sites. 3<sup>rd</sup> International Conference „New Technologies NT-2016“ Development and Application.
- Đozić, A., Selimbašić, V., Andrejaš, F., Stuhli, V. (2013): Effect of food production and the environment, 1<sup>st</sup>. Scientific-Expert Conference "Agricultural production and environmental protection in the Development of Rural Areas" Tuzla, Book of Proceedings, pp. 171-190.
- Selimbašić, V., Uljić, M., Cipurković, A., Suljić, N., Stuhli, V., Tanjić, I. (2012): Water quality of the Spreča River with its tributaries upstream of the Modrac reservoir. 2<sup>nd</sup> Interntional Scientific Meeting GTZ 2012. Tuzla, June 07-09.2012.
- Selimbasic, V., Cipurkovic, A., Berbić, M., Crnkić, A., Djozić, A., Trumić, I. (2012):Influence of heavy metals pollution on quality of coastal sediments near Modrac lake. 8<sup>th</sup> International Soil Congress on „Land Degradatio amd Callenges in Sustainable Soil Management“ 15-17 May 2012, Cesme-Izmir, Turkey.
- Cipurkovic, A., Hodžić, Z., Selimbasic, V., Crnkić, A., Dedić, A., Trumić, I. (2012):The influence of fly ash and marl-clay from Tuzla canton as raw-materials on PC clincer production. 8<sup>th</sup> International Soil Congress on „Land Degradatio amd Callenges in Sustainable Soil Management“ 15-17 May 2012, Cesme-Izmir, Turkey.
- Crnkić, A., Babajić, A., Cipurkovic, A., Selimbasic, V., Hodžić, Z., Šestan, A. (2012): Analysis of phisico-chemical composition and context of humic acids in sediments Modrac lake. 8<sup>th</sup> International Soil Congress on „Land Degradatio amd Callenges in Sustainable Soil Management“ 15-17 May 2012, Cesme-Izmir, Turkey.
- Petric, I., Selimbašić, V., Bijedić M. (2006): Optimum Ratio of Chicken Manure and Wheat Straw for Aerobic Composting Process, Proceedings of the 34. International Symposium on Agricultural Engineering, Opatija, Croatia, 21.-25. February 2006, pp. 307-318.
- Petric, I., Bijedić M., Selimbašić, V. (2005): Mathematical Model and Dynamic Simulation of Aerobic Composting Process (Matematički model i dinamička simulacija procesa aerobnog kompostiranja), Proceedings of the 33. International Symposium on Agricultural Engineering, Opatija, Croatia, 21.-25. February 2005, pp. 307-318.
- Selimbašić, V., Simićić, H., Žunić, E., Petric, I., Flotats, X. (2004): Anaerobic fermentation of cattle manure at temperature 55°C, Proceedings of the 32. International Symposium on Agricultural Engineering, Opatija, Croatia, 23.-27. February 2005, pp. 361-370.
- Petric, I., Bijedić M., Selimbašić, V. (2004): Simulation model for Aerobic Composting Process and Its Preliminary Validation. Congress Proceedings of the 1<sup>st</sup> International and 18<sup>th</sup> Croatian Congress of Technologists for Post-Harvest Technology «ZRNKO '04», November 17<sup>th</sup>-18<sup>th</sup>, 2004, Stubičke Toplice, Croatia, 174-187.
- Selimbašić, V., Petric, I. (2002): Mathematical modeling of anaerobic batch fermentation of cattle manure at mesophilic temperature, MATH/CHEM/COMP/2002, Book of Abstracts, 2002, p.69.

## BOOKS

- Selimbašić, V., Cipurković, A., Crnkić, A. „Chemistry and environmental protection“, OFF-SET Tuzla, 2014.
- Smajlović, J., Numanović, F., Selimbašić, V. „Microorganisms in wastewater treatment“, Harfo-graf d.o.o. Tuzla.
- Selimbašić, V., Stuhli, V. „Wastewater treatment processes with legal regulative“, OFF-SET Tuzla, 2012.
- Selimbašić, V, Đozić, A. „Fundamentals of ecology with environmental protection“ OFF-SET Tuzla, 2012.
- Selimbašić, V., Đonlagić, N., Montero, J.A., Marquez, M.A.C. „Environmental impact of agriculture and food production - EU ecology standards“, GRAFOMARK, Laktaši, Banja Luka, 2004.

**ADVISOR OF THESIS**  
**Doctoral thesis**

Stuhli, V. (2015). „Anaerobic co-digestion of sludge from municipal wastewater treatment plants and various types of organic waste”. Doctoral disertation. Faculty of Technology, University of Tuzla.

Đozić, A. (2012).“Distribution of heavy metals from slag and ash dumps "Divkovići II" and their influence on environment”. Doctoral disertation. Faculty of Technology, University of Tuzla.

**Master thesis**

Jasmin Pandurović „Monitoring the Efficiency of the Operation of the Municipal Wastewater Treatment Plant Živinice“, thesis defended 13.07.2018. year at Faculty of Technology, University of Tuzla.

Ružica Jelisić: „Improving medical waste management in primary care settings“, thesis defended 22.01.2015. year at Faculty of Technology, University of Tuzla.

Amir Husarić: „Influence of municipal and industrial wastewater discharges on the water quality of the Tinja River“, odbranjen 30.09.2015. year at Faculty of Technology, University of Tuzla.

Mirnesa Zohorović: „Impact of pollutants on the quality of surface watercourses in the Tuzla Canton“, thesis defended 26.01.2013. year Faculty of Technology, University of Tuzla.

Nermina Muminović: „Assessment of the impact of pollutants on groundwater quality in Srebrenica“, thesis defended 22.02.2013. year at Faculty of Technology, University of Tuzla.

Sabina Jukan: „Determination of the efficiency of the plant-soil purifier in the treatment of municipal wastewater“, thesis defended 19.12.2013 year at Faculty of Technology, University of Tuzla.

Mirela Uljić „Impact of pollutants in the catchment area of the Spreča and Turija rivers and water inflow as determinants of water quality of the Modrac lake“, thesis defended 23.11.2012. year at Faculty of Technology, University of Tuzla.

Jelena Vićanović „Development of anaerobic granular sludge in a laboratory reactor for the treatment of wastewater from the food industry“, thesis defended 02.11.2012. year at Faculty of Technology, University of Tuzla.

Maida Berbić „Possibility of applying sediment / sludge from the Modrac reservoir for the remediation of the slag of the Thermal Power Plant Tuzla“, thesis defended 22.12.2011. year at Faculty of Technology, University of Tuzla.

Jasmin Imširović „Efficiency of Ammonia-Phenolic Wastewater Treatment Plant GIKL d.o.o. Lukavac“, thesis defended 18.03.2011. year at Faculty of Technology, University of Tuzla.

Vedran Stuhli „Characterization of waste sludge from an urban wastewater treatment plant in order to determine the possibility of its anaerobic digestion“, thesis defended 18.03.2011. year at Faculty of Technology, University of Tuzla.

Dragan Pelemiš „Possibilities of using surplus activated sludge after treatment of industrial wastewater for compost production“, thesis defended 26.02.2011. year at Faculty of Technology, University of Tuzla.

Abdel Đozić "Influence of initial ratio of chicken manure and wheat straw on the process of aerobic composting with forced aeration", thesis defended 06.04.2007. year at Faculty of Technology, University of Tuzla.

## RESEARCH PROJECTS

Anaerobic co-digestion of waste sludge and organic waste in a mixture, Environmental Protection Fund of the Federation of Bosnia and Herzegovina (2012).  
Distribution of heavy metals in sediment along the coast of the Jala River, Federal Ministry of Education and Science (2012).  
Tempus-JPHES Creation of university-enterprise cooperation networks for education on sustainable technology, Tempus Project 158989-Tempus-1-2009-1-BE.  
Strategy of protection Modrac lake, Ministry of Agriculture, Water and Forestry of Tuzla Canton - Modrac reservoir coordination team, 2012.  
Netherlands and Western Balkans Environmental Network (NEWEN PROJECT), 2008-2011.  
Determination of heavy metals in solid residues from wastewater treatment plants, Ministry of Education, Science, Culture and Sports TK, 2009. (broj: 10/1-14-17117-1/10.).  
Development of feasibility study of construction of mini hydropower plants on the river Krivaja, RWE Innogy, Germany (2008-2009).  
Investigation of the presence, distribution and impact of heavy metals on the environment during the cement production process at FC Lukavac, Ministry of Education, Science, Culture and Sports TK (2009).  
Distribution of metallic elements in cement production process and environmental impact, Federal Ministry of Education and Science (2009).  
Composting as an efficient and useful process for the disposal of solid biodegradable organic waste in BiH, Federal Ministry of Education and Science (2003.-2005).  
TEMPUS IB-JEP 16140-2001 „Food law bridge among University and Industry“  
Reuse of industrial mineral waste for waste water and improvement of landfills (REINTRO) (2002-2006).

## Reviewer for Journals

Journal of Soil Science and Environmental Management  
Waste Management,  
Quality of Life  
Technologica Acta  
Poljoprivredna znanstvena smotra

## Memberships

RENESO: Team for renewable and new energy sources,  
[http://www.europartnersearch.net/bafn/index.php?page=country\\_bh](http://www.europartnersearch.net/bafn/index.php?page=country_bh)  
Coordination Team for the Protection of Reservoir Modrac in front of the Ministry of Agriculture, Water and Forestry of Tuzla Canton  
Sectoral Environmental Improvement Groups of Tuzla Municipality

## ANNEXES

More information about my educational and research work can be found at the following page:  
[www.tf.untz.ba](http://www.tf.untz.ba)