

CURRICULUM VITAE

Hilda Marta Szabo

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Civil status: married, two children

EDUCATION

PhD in Environmental Engineering

04/2019

Tampere University, Faculty of Engineering and Natural Sciences

Dissertation: *“Assessment of the analytical potential of HPLC-SEC for the characterization of DOM and nutrients in various types of water”*

MSc. in Environmental Engineering

06/2004

Tampere university of Technology, Department of Environmental Engineering and Biotechnology

MSc Thesis: *“The effects of small-scale wastewater disposal on the quality of well waters”*

Major subject: Chemistry

Minor subject: Water and Environmental Technology

BSc in Chemical Engineering

06/1993

“Babes-Bolyai” University from Cluj-Napoca, Institute of Chemistry and Chemical Engineering (Romania)

BSc Thesis: *“Ultrapure water production using ion-exchange resins”*

WORK EXPERIENCE

Senior Lecturer

08/2011-

Tampere University of Applied Sciences

Researcher

01/2010-07/2011

Tampere University of Technology, Department of Chemistry and Bioengineering/ Environmental Engineering and Biotechnology,

Teaching Assistant

01/2008-08/2008

Tampere University of Technology, Department of Chemistry and Bioengineering, Environmental Engineering and Biotechnology Laboratory

Researcher

01/2005-12/2007

Tampere University of Technology, Institute of Environmental- and Biotechnology

Software Test Engineer Bowne Global Solutions, Tampere, Finland	09/2004-12/2004
Research Assistant Tampere University of Technology, Institute of Environmental- and Biotechnology	10/2003-08/2004
Researcher Chemist Public Health Centre, Targu Mures, Romania	01/1997-08/1998
Teacher of Chemistry and Physics Elementary School, Livezile and “Avram Iancu” High School, Targu Mures, Romania	09/1993-12/1996

LIST OF PUBLICATIONS

Scientific articles

Szabo, H.M., Lindfors, I., Tuhkanen, T. (2008) NOM from Catchment to Drinking Water – Case Pori Waterworks from Finland. *Water Science & Technology: Water Supply* 8:681-690

Szabo, H.M., Kaarela, O., Tuhkanen, T. (2009) Finnish well water quality in rural areas surrounded by agricultural activity. *Vatten* 65: 27-35, Lund 2009

Szabo, H.M., Tuhkanen, T. (2010) The application of HPLC-SEC for the simultaneous characterization of NOM and nitrate in well waters. *Chemosphere* 80: 779-786

Lindroos, A., Szabo, H.M., Nikinmaa, M., Leskinen, P. (2011) Comparison of sea surface microlayer and subsurface water bacterial communities in the Baltic Sea. *Aquatic Microbial Ecology* 65: 29-42

Szabo, H.M., Lepistö, R., Tuhkanen, T. (2016) HPLC-SEC: a new approach to characterise complex wastewater effluents. *International Journal of Environmental Analytical Chemistry* 96:257-270

Szabo, H.M., Lepistö, R. (2020) HPLC-SEC chromatograms as surrogates for BOD and other organic quality indicators of septic tank effluents. *International Journal of Environmental Science and Technology* 17: 483-492

Conference publications

Oral presentations

Szabo, H.M., Tuhkanen, T. (2007) Identification of Wastewater Leaching into the Wells by HPLC-SEC using UV and Fluorescence Detection, *International Conference on Environment: Survival and Sustainability*, 19-24 February 2007, Nicosia, Northern Cyprus

Szabo, H.M., Tuhkanen, T. (2007) Deterioration of drinking water sources through leaching of organic matter – development of a method to identify the source of leaching. *UNESCO-IHP Symposium: New Directions in Urban water Management*, 12-14 September 2007, Paris, France

Szabo, H. M., Lindfors, I., Tuhkanen, T. (2008) NOM from Catchment to Drinking Water – Case Pori Waterworks from Finland. 4th IWA Specialist Conference: Natural Organic Matter: from Source to Tap. 2-4 September 2008, Bath, UK

Tsang, P.K., Szabo, H.M., Viskari, E.L. (2012) Gas release and ventilation in a dry toilet – comparison between different models. The 4th International Dry toilet Conference, 22-24 August 2012, Tampere, Finland

Poster presentations

Szabo, H.M., Tuhkanen, T. (2006) Wastewater leaching into the wells: a study in Finland., The 2nd International Dry Toilet Conference, 16-19 August 2006, Tampere, Finland

Szabo, H. M., Lindfors, I., Tuhkanen, T. (2007) NOM behavior in the catchment area of Joutsijärvi / Tuurujärvi. 11th Nordic-Baltic Symposium: Functioning of NOM in the Environment. 10-13 June 2007, Joensuu, Finland

Szabo, H.M., Tuhkanen, T. (2007) On-site wastewater effluents - analysis by HPLC-SEC using UV and Fluorescence detection. Eight Finnish Conference of Environmental Sciences, 10-11 May 2007, Mikkeli, Finland

H.M. Szabo , E. Ränkman , N. Vieno , T. Tuhkanen (2009) Seasonal Variations of NOM in the Raw Water Source and Drinking Water Treatment Process in Pori. 12th Nordic-Baltic IHSS Symposium on Natural Organic Matter in Environment and Technology, 14-17 June, Tallin, Estonia

Szabo, H.M., Tuhkanen, T. (2010) Site specific factors and quality indicators of private well waters from sparsely populated areas of Finland. Symposium on Water and Health: Where Science Meets Policy, October 23- 26, Chapel Hill, North Carolina

H.M.Szabo, T. Tuhkanen (2011) Fast assessment of well water quality by UV/VIS spectroscopy. 2011 Finnish Conference of Environmental Science, 5-6 May 2011, Turku, Finland

Kitchen, S., Szabo, H.M., Viskari, E.L. (2012) Emergency Composting Toilet Design and Implementation in Urban Settings. The 4th International Dry toilet Conference, 22-24 August 2012, Tampere, Finland