

## Tone Merete Muthanna

Associate Professor

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Date of birth: 04 February, 1975



**Education:** Ph.D Environmental and Hydraulic Engineering, NTNU(2007); MSc and BSc Biological Systems Engineering, Virginia Polytechnic Institute and State University (Virginia Tech), (2001, 1998)

### Work Experience:

Jun 2013-present	Associate Professor, Department of civil and environmental engineering, NTNU
Mar 2010 – Jun2013	Post Doc. Research Fellow at Department of civil and environmental engineering, NTNU
May 2007 – Oct2012	Research Scientist at Norwegian Institute for Water Research (NIVA),
Jan 2003- Oct 2006	PhD candidate Department of hydraulic and environmental engineering, NTNU.
Feb. 2001- Jan 2003	Water resources engineer at CH2M Hill, Washington D.C, USA

### Selection of project portfolio:

- BINGO – H2020 (€8.600.000) Work package leader and member of management team of the H2020 project BINGO "Bringing Innovation to OnGoing Water Management – a better future under climate change" (2015-2019).
- Inxcess – (NOK 1.499.000) JPI Waterworks "Innovations for extreme climatic events" (2016-2018)
- Veirens – (NOK 4.200.000), Joint collaboration between National Road Authorities – and NTNU under the NORWAT program. (2016-2013)
- UrbanWatch (NOK 5 200 000) Groundwater and stormwater management for cultural heritage protection (funded by national research council) (2012-2015)

### International Committees and Professional affiliations:

- Joint Committee on Urban Drainage (IWA/IAHR) – committee member 2015-present
- IWA National committee member
- Member of International Panel of Experts for evaluation of study programmes in the field of Civil engineering at the Vilnius Gediminas Technical University – appointed by The Centre for Quality Assessment in Higher Education (SKVC), Lithuania, December 2016.
- PhD assessment committee (2. Opponent) NMBU 2017
- Liciate thesis opponent University of Technology Luelå, (LTU), 2013, Candidate Matthias Borris

### Selected Publications:

Author of more than 30 international peer reviewed journal articles

- Hamouz, Vladimir; Lohne, Jardar; Wood, Jaran R.; **Muthanna, Tone Merete**. (2018) [Hydrological Performance of LECA-Based Roofs in Cold Climates](#). *Water*. vol. 10 (3).
- Kristvik, Erle; **Muthanna, Tone Merete**; Alfredsen, Knut. (2018) [Assessment of future water availability under climate change, considering scenarios for population growth and ageing infrastructure](#). *Journal of Water and Climate Change*.
- Ilyas, Aamir; **Muthanna, Tone Merete**. (2017) [Assessment of upscaling potential of alternative adsorbent materials for highway stormwater treatment in cold climates](#). *Environmental technology*. vol. 38 (6).
- Ilyas, Aamir; **Muthanna, Tone Merete**. (2017) [Metal removal efficiency, operational life and secondary environmental impacts of a stormwater filter developed from iron-oxide-amended bottom ash](#). *Journal of Environmental Science and Health. Part A: Toxic/Hazardous Substances and Environmental Engineering*. vol. 52 (14).
- Monrabal-Martinez, C.; Ilyas, A., **Muthanna, T.M.**, (2017) [Pilot Scale Testing of Adsorbent Amended Filters under High Hydraulic Loads for Highway Runoff in Cold Climates](#). *Water*. vol. 9 (3).
- Johanessen, B.G., Hanslin, H.M., **Muthanna, T.M.** (2017) Green roof performance potential in cold and wet regions *Ecological Engineering* vol. 106, p. 436-447.
- Ilyas, A., and **Muthanna, T.M.**, (2016). "Assessment of upscaling potential of alternative adsorbent materials for highway stormwater treatment in cold climates." *Environmental Technology*. <http://dx.doi.org/10.1080/09593330.2016.1209567>
- Moghadas, Shahab; Gustavsson, A.M.; **Muthanna, Tone Merete**; Marsalek, Jiri; Viklander, Maria. (2016) Review of models and procedures for modelling urban snowmelt. *Urban Water Journal*. vol. 13 (4).
- Paus, K.A.H.; **Muthanna, T.M.**; Braskerud, B.C. (2016) The hydrological performance of bioretention cells in regions with cold climates: Seasonal variation and implications for design. *Hydrology Research*. vol. 47 (2).
- Moghadas, S.; Paus, K.H.; **Muthanna, T.M.**; Herrmann, I.; Marsalek, J.; Viklander, M. (2015) Accumulation of Traffic-Related Trace Metals in Urban Winter-Long Roadside Snowbanks. *Water, Air and Soil Pollution*. vol. 226 (12).
- Hovik, S.; Naustdalslid, J.; Reitan, M.; **Muthanna, T.M.** (2015) Adaptation to Climate Change – Professional Networks and Reinforcing Institutional Environments. *Environment and Planning. C, Government and Policy*. volume 33 (1).
- Muthanna, T.M.**, Viklander M., Thorolfsson, S.T. (2008). Seasonal climatic effects on the hydrology of a cold climate rain garden. *Hydrological Processes* 22 (1640-1649).
- Muthanna, T.M.**, Viklander M., Blecken, G, and Thorolfsson, S.T. (2007). Snowmelt pollutant removal in bioretention areas. *Water Research* 41(18) 4061-4072.
- Muthanna, T.M.**, Gjerdahl, N., Viklander, M., Thorolfsson, S.T. (2007). Heavy metal removal in cold climate bioretention. *Water, Air & Soil Pollution* 183 (391-402).