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Worku L. Mulat, PhD  
Associate Professor of Applied Ecology

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# Education and training

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- Asmara University, B.Sc., Biology (1987), supervisor Prof. Endashaw Bekele
- Gent University, Belgium, M.Sc, Environmental Sanitation (1993), supervisor Prof W. Verstrate
- Cork University, Ireland, PhD in Applied Ecology (2001), supervisors Prof. Paul Giller and Prof. John O'Halloran

# Work Experience

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- University of Connecticut, A/Professor, Civil and Environmental Engineering, Storrs, CT (2012 on)
- Tree Foundation, Researcher(2009 on )
- Accdon Company, Science Editor(2009 on)
- Jimma University, Assoiciate Professor (1987-2006)
- Wollo University, A/President(2005-2006)
- Grarbet, Deputy Secretary (2006)

# Teaching philosophy

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- At the beginning of my career, I considered teaching to be my duty; over the years it has come to be my passion. Teaching is a lofty profession, that has to be constantly nurtured with life long learning.
- Through teaching and research, I prepare students to be agents of social change. As educator of science, here is my mission: help students develop critical thinking and skills required to thrive in the 21 century.

# Major contributions

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- Won 120 million grant for water & health research
- Published 2 books and more than 30 articles.
- Trained Environmental Science students that became agents of social and environmental change
- Established the first undergraduate Environmental Science School and applied research in Ethiopia
- Taught water quality, health and sanitation for 2 decades
- Established the first environmental quality laboratory
- Developed Environmental health curriculum for training 30,000 Extension Health Workers
- Implemented construction of springs and toilets for rural communities through outreach program
- Protected springs constructed in southwest Ethiopia.

# Major contributions cont..

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- Establishment of Wollo University, Ethiopia
- Establishment of Ethiopian Institute of Water Resources, Ethiopia
- Founder of School of Environmental Health
- Undergraduate/graduate student supervision
- Published several public and environmental health lecture notes
- Edited and reviewed several articles for publication



# Initiatives at village level

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- ▣ Born in a remote village from peasants:
  - Became a role model in changing lives via education
    - ✦ <http://treefoundation.org/2011/11/15/from-a-remote-village-to-bill-gates-neighborhood/>
  - Motivated parents to send children to school
- **Mobilizing resources from his own family:**
  - Constructed functional toilets for his village(2006)
  - Built a church within walking distance(2006)
  - His tiny village got water within 5 minutes walk (2009)
  - The village is connected to electric grid, for the first time (2014)

## Initiatives at institutional level



- Developed biogas plant from toilet and connected the plant to student cafeteria at JU
- Developed constructed wetland to treat kitchen waste generated from JU
- Developed rainwater harvesting system to be used by the student cafeteria of JU
- Developed outreach program to:
  - Protect springs
  - Construct toilets
  - Spread health Education and information

# Publications-Books/Chapters



- Water Supply and Sanitation in Ethiopia (2006)
- Personal Hygiene (2004)
  - [http://www.cartercenter.org/resources/pdfs/health/ephti/library/lecture notes/health extension trainees/LN HEW Personal Hygiene Final.pdf](http://www.cartercenter.org/resources/pdfs/health/ephti/library/lecture%20notes/health%20extension%20trainees/LN%20HEW%20Personal%20Hygiene%20Final.pdf)
- Water Resources Management in Ethiopia (2010):
  - <http://www.cambriapress.com/cambriapress.cfm?template=6&bid=357>
- Conservation story for children in Ethiopia (2014)
  - <http://www.amazon.com/Beza-Saved-Forests-Ethiopia-Church/dp/1614932522>
- Water Pollution chapter (2010)

# Publications-Journals

- **Assessment on the approaches used for water and sanitation programs in Ethiopia:**  
<http://link.springer.com/article/10.1007/s11269-012-0145-7>
- **Factors Affecting Drinking water quality:**  
[www.ju.edu.et/cphms/node/171?q=node/239](http://www.ju.edu.et/cphms/node/171?q=node/239)
- **Sanitary chemical analysis of protected springs:**
  - <http://ejhd.uib.no/index/ejhd-index-1984-1999.htm#1999>
- **Malaria and water resource development:**  
<http://www.malariajournal.com/content/8/1/21>

# Publication continued

- Water resource development in Ethiopia  
<http://www.nrcresearchpress.com/doi/abs/10.1139/er-2013-0076>
- Ecological Assessment of Cheffa wetland in Ethiopia  
<http://www.sciencedirect.com/science/article/pii/S1470160X11002986>
- Physicochemical and biological characterization of Anopheles mosquito  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4029358/>

# Publication continued

- Solar disinfection  
<http://www.ijehse.com/mostviewed/alltime?page=3&itemsPerPage=25>
- Assessment of water and sanitation program  
<http://link.springer.com/article/10.1007%2Fs11269-012-0145-7>
- Human myiasis in southwestern Ethiopia  
<http://www.ajol.info/index.php/ejhd/article/view/10045>
- The impact of traditional coffee processing on water  
<http://connection.ebscohost.com/c/articles/82142196/impact-traditional-coffee-processing-river-water-quality-ethiopia-urgency-adopting-sound-environmental-practices>

# Voluntary work

- <http://www.grarbetmahber.org/>
- <http://treefoundation.org>
- <http://www.eiwr.org/>
- <http://www.eircca.org/>
- <http://omicsonline.org/editorialboard-environmental-analytical-toxicology-open-access.php>
- <http://www.ccsenet.org/journal/index.php/enrr/about/editorialTeam>
- <http://www.accdon.com/>

# On going research

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- Suitability of Bamboo to treat wastewater
- Constructed wetlands to treat mixed wastewaters in Ethiopia
- Water quality and water resource management in Ethiopia
- Determinants of diarrheal disease in slums of Addis Ababa
- Treatment of leachate arising from landfill in Addis Ababa
- Conservation of natural resources



# Journal of Environmental & Analytical Toxicology Related Journals

- Journal of Environmental Analytical Chemistry
- Journal of Pollution Effects & Control

# Journal of Environmental & Analytical Toxicology

## Related Conferences

- International Summit on Past and Present Research Systems of Green Chemistry
- International Summit on Toxicology & Applied Pharmacology



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