

# OMICS INTERNATIONAL



OMICS International through its Open Access Initiative is committed to make genuine and reliable contributions to the scientific community. OMICS International signed an agreement with more than **1000** International Societies to make healthcare information Open Access.



# OMICS Journals are welcoming Submissions

OMICS Group welcomes submissions that are original and technically so as to serve both the developing world and developed countries in the best possible way.

OMICS Journals are poised in excellence by publishing high quality research. OMICS Group follows an Editorial Manager® System peer review process and boasts of a strong and active editorial board.

Editors and reviewers are experts in their field and provide anonymous, unbiased and detailed reviews of all submissions. The journal gives the options of multiple language translations for all the articles and all archived articles are available in HTML, XML, PDF and audio formats. Also, all the published articles are archived in repositories and indexing services like DOAJ, CAS, Google Scholar, Scientific Commons, Index Copernicus, EBSCO, HINARI and GALE.

**For more details please visit our website:**

**<http://omicsonline.org/Submitmanuscript.php>**

Worku L. Mulat, PhD  
Associate Professor of Applied Ecology

3



# Education and training

4

- 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

5

- 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

6

- 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

7

- 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..

8

- 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

9

- ▣ 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

16

- 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



# OMICS International Open Access Membership

OMICS International Open Access Membership enables academic and research institutions, funders and corporations to actively encourage open access in scholarly communication and the dissemination of research published by their authors.

For more details and benefits, click on the link below:

<http://omicsonline.org/membership.php>

