

CURRICULUM VITAE

NAME: **PAZI MWINYIMVUA SEMILI**

DATE OF BIRTH: 30th December, 1963

NATIONALITY: Tanzanian

GENDER: Male

MARITAL STATUS: Married with three children

DATE OF SUBMISSION: 22nd June, 2018

OVERVIEW OF EXPERIENCE:

I have 23 years working experience in the field of phytoplankton, water quality, food science and nutrition, since 1994, when I completed my first degree in Food Science and Technology, at Sokoine University of Agriculture (SUA), Morogoro, Tanzania, and Master's Degree in Applied Microbiology (2002), at the University of Dar es Salaam, Dar es Salaam, Tanzania. During that period I have been trained in professional courses related to phytoplankton taxonomy, phytoplankton production, water quality, algal toxins in waters and their health implications, water borne diseases, water resources management, food science, nutrition, research methodology, and planning and organizing aquatic field and laboratory work.

Furthermore, from 2002 to 2006, I used to work with Water Quality and Ecosystem Management Component of Lake Victoria Environmental Management Project (LVEMP-Tanzania) as research scientist (phytoplankton specialist), in Mwanza, Tanzania. LVEMP was a joint project of three countries of Tanzania, Uganda and Kenya, funded by the World Bank (WB).

Under the said project, in 2002-2006, I was one of the Research Team Members engaged in Integrated Water Quality/Limnology Study of Lake Victoria lead by the COWI Consulting Engineers and Planners, and DHI (Water and Environment), Denmark. We organized lake wide cruises and directed field data collection and analysis in Lake Victoria and its tributaries in order to assess the lake ecosystem status and dynamics and identify historical changes and predict the response of lake ecosystem to climate change, human activities and catchment degradation. Results were discussed in workshops and scientific conferences, and disseminated to

stakeholders through technical reports and publications in Tanzania, Uganda and Kenya.

From 05 June, 2008, to date: I have been employed by the University of Dar es Salaam, College of Agricultural Sciences and Fisheries Technology (used to be part of College of Natural and Applied Sciences), Department of Aquatic Sciences and Fisheries Technology as Senior Laboratory Scientist. My responsibilities include assisting lecturers/academicians in preparation and conducting practical and field work related to aquatic sciences and fisheries for undergraduate and post graduate students. Also, I am providing technical support for students undertaking Masters and PhD in phytoplankton identification, primary production, nitrogen fixation, water quality, fish processing, fish quality and post-harvest losses on fish.

Currently: I am finishing my PhD thesis write up, at the Department of Aquatic Sciences and Fisheries Technology, University of Dar es Salaam, TANZANIA. The PhD study was funded by then Water Research Fund for Southern Africa (WARFSA) based in Harare, Zimbabwe. My PhD research topic is: PRIMARY PRODUCTION AND NITROGEN FIXATION IN THE SELECTED BAYS OF SOUTHERN LAKE VICTORIA. I expect to submit my PhD Thesis in August, 2018.

EDUCATION:

Master of Science (Applied Microbiology)–University of Dar es Salaam, Dar es Salaam, Tanzania: **2000-2002.**

Bachelor of Food Science and Technology–Sokoine University of Agriculture (SUA), Morogoro, Tanzania: **1991-1994.**

OTHER MAIN TRAINING COURSES:

Training Course on the Principles and Application of Hazards Analysis and Critical Control Points (HACCP) on food processing. The training was held at University of Zimbabwe, Harare, Zimbabwe: **July 23rd to August 3rd, 2001.**

Training on Algal Taxonomy at Fisheries Resources Research Institute (FIRRI), Jinja, Uganda: **11th–26th November 2002.** The training was led by Hedy J. Kling, from Fisheries and Oceans Canada, Ottawa, Division of Environmental Science.

Training on Tropical Fresh Water Ecosystems Conservation and Management, Kenya Wildlife Training Institute, Naivasha, Kenya: **4th to 31st August 2003.**

Professional Training on Entrepreneurship and Organization Development, Conducted by Friends of Internationals (USA) in Collaboration with the University of Dar es Salaam Entrepreneurship centre (UDEC), Ubungo Plaza, Dar es Salaam, Tanzania: **5th- 6th February, 2007.**

Participate in DELPHE BRITISH COUNCIL FIELD – IT- EAFRICA WORKSHOP: LAKE NAIVASHA, NAIROBI, KENYA. The training aimed to impart participants, knowledge and skills on climate change, field work and writing scientific report: **6th – 20th September 2009.**

Training in Aquatic Sciences in relation to climate change and leadership at University of Jyväskylä, Finland: **01 March to 31 May, 2011.**

INDEPENDENT RESEARCH:

Research on Extraction and Characterization of Pumpkin (*Cucurbita pepo*) Seed Oil: A less known Tanzanian edible oil. Undergraduate Degree Course Project: **1994.**

Research on Microbiological Quality of Potable Water in Dar es Salaam and Morogoro Municipalities. Postgraduate Degree Research Work: **2000-2002.**

Research on Water Microbiology, Water Quality, Plankton Ecology, In-Lake Monitoring and Microbiology: Lake Victoria Environmental Management Project (LVEMP): **March 2000 to December 2006.**

WORK EXPERIENCE:

2008 to Date: At the Department of Aquatic Sciences and Fisheries (DASF), University of Dar es Salaam, I assist Prof. Charles Lugomela to plan and conduct field and laboratory work on phytoplankton identification, phytoplankton production and biomass in Indian Ocean waters, for university students. Phytoplankton are microscopic plants found in marine and fresh waters used as food mainly by microscopic animals (zooplankton) which themselves are eaten by fish.

May 10, 2018 to Date: Appointed by the Principal of College of Agriculture Sciences and Fisheries Technology (CoAF) as Maintenance Coordinator of CoAF Building.

26 June – 16 July 2015: I was engaged by FAO (Food and Agriculture Organization of the United Nations) to participate in R/V Dr. Fridtjof Nansen Survey in the Southern Indian Ocean. This work was a research in deep sea and I was a team leader of the section responsible for phytoplankton study.

September 2002 to December 2006: Research Scientist: Lake Victoria Environmental Management Project (**LVEMP**), Mwanza, Tanzania. Involved in Water Quality Assessment, In-Lake Monitoring, Climate change, Microbiology, Biodiversity and Plankton Ecology: I was also, involved in phytoplankton and nutrients sample collection and analysis; setting and conducting experiment in phytoplankton production and nitrogen fixation, phytoplankton species composition and biomass in terms of chlorophyll a and bio-volume.

July-August, 2000: Supervising Undergraduate students from Hampton University (USA), doing research on quality of water sources in Dar es Salaam and Coast regions. The students were hosted by Chemistry Department, University of Dar es Salaam.

1998-1999: Microbiologist, Bakhresa Food Processing Industries LTD, Dar es Salaam.

1995–1997: Teaching biology and microbiology in various secondary schools and colleges in Dar es Salaam.

**INVITED CONFERENCES AND SYMPOSIA
PRESENTATIONS/ATTENDED**

Semili P.M. and M.S.T. Rubindamayugi. Microbiological Quality of Potable Water in Dar es Salaam City: A paper presented at the Scientific Conference on Research Capacity Profile in the Faculty of Science, University of Dar es Salaam. **21st – 24th March, 2000.**

Mnyanga P.V. and P.M. Semili: MIRONGO RIVER. Is a storm drain or an open sewer: A paper presented in the FIRST NATIONAL SCIENTIFIC CONFERENCE, **6TH- 10TH AUGUST, 2001.** B.O.T. TRAINING INSTITUTE, MWANZA, TANZANIA.

Semili, P.M. Zooplankton biomass and species composition in Lake Victoria. A paper presented in the LVEMP-National Scientific Conference, Eldorate, Kenya: **21st – 22nd March, 2002.**

Semili P. S, S. Matowo and G. Mgwatu. Evaluation of Suitability of Mwanza gulf, Lake Victoria, as a source of drinking water. Regional Water Quality Laboratory, P.O.Box 211, Mwanza, Tanzania. A paper presented in the Scientific Symposium on Environment, University of Dar es Salaam, Tanzania. **23rd – 26th September 2002.**

Semili, P.M. Dominance of Toxic Cyanobacteria in Lake Victoria as a response of Increasing Human Activities. A paper presented in the Pan Africa PAGES workshop on Palaeoenvironments: Linking the past to the present and the future, NAIROBI SAFARI CLUB, NAIROBI, KENYA: **19-21 JULY, 2004.**

Semili, P.M., D. Rutagemwa, H. Mjengera. The present state of toxin producing cyanobacteria species in the southern Lake Victoria (Tanzania). Poster paper presented at the 12th International Conference on Harmful Algae, in Copenhagen, Denmark: **4-8 September 2006.**

Semili, P.M. The present state of phytoplankton composition and biomass in the southern Lake Victoria. Poster paper presented at the 7th WaterNet/WARFSA/GWP - SA Symposium, Lilongwe (Capital Hotel), Malawi: **1-3 November 2006.**

Attended Second Annual National Science and Technology Conference and Exhibitions organized by Tanzania Commission for Science and Technology (COSTECH), Blue Pearl Hotel, Ubungo Plaza, Dar es Salaam, Tanzania: **23–25 May, 2007.**

Attended the First Tanzania Coastal and Marine Forum, organized by National Environment Management Council (NEMC), Marine and Coastal Environment Management Project (MACEMP) and Faculty of Aquatic Sciences and Technology (FAST), White Sands Beach Resort, Dar es Salaam, Tanzania: **1-4 June, 2007.**

OTHER QUALIFICATIONS

Language Proficiency:

Language:	Reading:	Writing:	Spoken:
English:	Very Good	Good	Good
Kiswahili:	Excellent	Excellent	Excellent

Computer Knowledge:

Word processing, Microsoft Excel, Power Point, Internet.

RESEARCH INTEREST

Education, Community development, Organization Development, Nutrition, Food science, Aquatic Sciences, Water Quality, Water Resource Management, Toxic Cyanobacteria Species and Socio-economics.

CONTACT DETAILS:

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REFEREES

1.0 DR. RASHID TAMATAMAH

DIRECTOR GENERAL, Tanzania Fisheries Research Institute (TAFIRI) P.O Box 9750, Dar es Salaam, Tanzania. Mobile phone: +255 784 804 538, E-mail: libramundial@yahoo.co.uk, rtamah@udsm.ac.tz.

2.0 PROF. CHARLES LUGOMELA, PhD

ASSOCIATE PROFESSOR, Department of Aquatic Sciences and Fisheries, University of Dar es Salaam, P.O. BOX 60091, Dar es Salaam, Tanzania. Mobile phone: +255 784 230023, E-mail: lugomela@uccmail.co.tz.

3.0 MR. OMARY MYANZA, MSc.

SENIOR SCIENTIST, LAKE VICTORIA ENVIRONMENTAL MANAGEMENT PROJECT (LVEMP), P.O.Box 211, Mwanza, TANZANIA. MOBILE PHONE: +255 787 071189. Email: chaluvara@hotmail.com.

DECLARATION

I, the undersigned declare that to the best of my knowledge and belief, these data correctly describes my qualifications, my experience and me.

Pazi Mwinyimvua Semili

22nd June, 2018