

CURRICULUM VITAE



NAME	MAURICE NYADAWA
CURRENT POSITION	DEAN, SCHOOL OF ENGINEERING AND TECHNOLOGY
UNIVERSITY ACADEMIC POSITION	ASSOCIATE PROFESSOR
INSTITUTION	JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
PHYSICAL ADDRESS	BONDO, KENYA

PERSONAL DATA	
DATE OF BIRTH	1957
PLACE OF BIRTH	SIAYA
NATIONALITY	KENYA
PROFESSION	CIVIL ENGINEERING
CONTACT ADDRESS	P.O. BOX 210-40601 BONDO, KENYA

1. SUMMARY OF EXPERIENCE	
5 years of industrial experience in civil engineering construction and 20 years experience in teaching and research at university level.	

2. EDUCATION	
<i>Year (from – to)</i>	<i>Degree, Institution</i>
2006 to 2008	M.Sc. (GIS), University of Nairobi
1994-1997	Doctor of Engineering, Gunma University
1992-1994	Master of Engineering, Gunma University
1983-1985	Higher Diploma (Engineering), Kenya Polytechnic

3. EMPLOYMENT	
<i>Years since</i>	<i>Company / Institution</i>
July 2012 - Now	Associate Professor, JaramogiOgingaOdinga University of Science and Technology

4. POSITIONS PREVIOUSLY HELD

<i>Year (from – to)</i>	<i>Position, Project / Programme, Company / Institution / Client Description of roles and responsibilities</i>
Sept. 2010 – June 2012	Senior Lecturer, Bondo University College
Oct.,2002 – Aug., 2010	Senior Lecturer, Jomo Kenyatta University of Agriculture and Technology
1997-Sept., 2002	Lecturer, Jomo Kenyatta University of Agriculture and Technology
1994-1997	Assistant Lecturer, Jomo Kenyatta University of Agriculture and Technology
1992-1994	Teaching Assistant, Jomo Kenyatta University of Agriculture and Technology
1986-1992	Assistant Lecturer, Jomo Kenyatta College of Agriculture and Technology
1981-1982	Inspector of Works, Ministry of Water Development

5. TEACHING RESPONSIBILITY

<i>School/Institute</i>	<i>Class/Discipline</i>
School of Engineering and Technology, JaramogiOgingaOdinga University of Science and Technology	Dean/ Teaching Soil Mechanics and Engineering Materials in Construction Management
Dept. of Civil Engineering, Jomo Kenyatta University of Agriculture and University	<p>Undergraduate Programs</p> <ul style="list-style-type: none"> ✓ Hydrology ✓ Water Resources Engineering <p>Postgraduate Programs</p> <ul style="list-style-type: none"> ▪ Statistics and probability modeling ▪ Water Resources Engineering ▪ Advanced Hydrology ▪ Ground Water Resources Management ▪ Disaster Management ▪ Arid and Semi-arid lands Management

6. EXTERNAL APPOINTMENTS/AWARDS

<i>Year</i>	<i>Appointment as/Institution/Project</i>
2009-Now	External Examiner of various public universities
1997-Now	External Examiner of a number of Masters and Ph.D. theses from a number of universities. Also have supervised a number of M.Sc. and Ph.D. research students.
2005-2010	Research reviewer for competitive research funding (e.g. Commission for Higher Education for inter university, Jomo Kenyatta University of Agriculture and Technology
1999-2009	Editorial Board Member of Journals (e.g. J. Civil Eng- JKUAT, Journal of Agriculture Science and Technology

7. OTHER LEADERSHIP POSITIONS	
<i>Year</i>	<i>Position/Programme/Institution</i>
2007-2010	Group Research Coordinator, Catchment Management researchers group drawn from the Nile basin countries, Research was supported by the Nile Basin Capacity Building Network for River.
1997-Now	Curriculum development (e.g. Diploma and Degree programs for , Diploma and Degree programs for JKUAT, Technical University of Kenya, JaramogiOgingaOdinga University of Science and Technology and Kenya Institute of Education).
2013	Resource person for Pan African University(ISTI)

8. RESEARCH ACTIVITES/PROJECTS(Past and Present)	
<i>Years/Duration</i>	<i>Position /Title / Sponsor</i>
2007-2010	i. Studies on flood and catchment management in the Nzoia and Kagera basins –Research supported by the Nile Basin Capacity Building Network
2007-2011	ii. Modeling Groundwater Flows in Hard Terrain
2008-Now	iii. Assessment of the effect of landuse changes on river flow regimes (cases of Nzoia, Nyando).
2013	iv. Assessment and Modeling water quality in river flows
2013	v. Assessment of effect of WASH on quality of primary education

9. CONSULTANCIES	
<i>Year from – to</i>	<i>Position, Project / Programme, Company / Institution / Client Description of roles and responsibilities</i>
1999-2013	Consultant Trainer in Water Resources Management Modelling, Environmental Impact Assessment for AICAD/JKUAT/ JaramogiOgingaOdingaUniversity College
2005	Consultant trainer in Integrated Water Resources Management/ Toolbox for Global Water Partnership
2012-2013	Design of Irrigation systems – Community Schemes e.g. Warianda in Siaya County

10. OUTREACH ACTIVITIES	
<i>Year from - to</i>	<i>Specific description of Activity</i>
2006- 2008	Training on irrigation and water resources management for small holder farmers, sponsored by JICA
2012-Now	Implementation of Warianda Community Irrigation Scheme

11. LINKAGES AND COLLABORATIONS	
<i>Year from – to</i>	<i>Description of links/collaborations</i>
2013	Plan International Inc., implementation of engineering programs which promote rights of the child

12. TRAININGS /WORKSHOPS/SYMPOSIA ATTENDED

February 2006	Geo-Informatics for Environmental Modeling, Training workshop on Applications of Remotely sensed data in Environmental modeling, Department of Geomatic Engineering and Geospatial Information Systems and Department of Biomechanical and Environmental Engineering, 6 th to10 th February 2006, Jomo Kenyatta University of Agriculture and Technology.
January 2008	Modeling Tools for Different Aspects of River Engineering (Application of SWAT Model in NBCBN Research Activities), Training Workshop for Nile Basin Capacity Building Network for River Engineering, 15 th -17 th January 2008, Hydraulic Research Institute, Cairo, Egypt.
October 2008	Hydrologic Modeling with HEC-HMS –Surface Water Modeling Training Workshop, 23 rd - 2 nd October 2008, University of Nairobi. Kenya.
October 2008	Geophysics in Groundwater Exploration –Water Resources Capacity Building Workshop, 7 th -16 th October 2008, University of Nairobi. Kenya
February 2008	Training of trainers for Integrated water resources management Toolbox in Bujumbura, Burundi
January 2009	Regional Training course on GIS and Remote Sensing for Integrated Water Resources Management, Bahir Dar University, Ethiopia.
25-26 th February, 2010	International Symposium on modernizing local sustainable technologies as the engine for sustainable development, Nairobi.
20 th -24 th Feb. 2011	Workshop on Food Security and Environmental Sustainability in a world of changing climates, Bondo, Kenya.
10-12 Sept. 2012	Workshop on Integrated Water Resources Management in Drought Risk Management, Nairobi
7 – 8 May 2013	Regional Implementation Workshop on Sustainable Energy in sub-Saharan, Nairobi

13. MEMBERSHIP TO COMMITTEES/BOARDS

2011-Now	Board Member of various academic committees in Universities taught (e.g. examination boards, academic boards, Senate etc.)
2011-Now	Board Member of Public Secondary Schools

14. MEMBERSHIP TO PROFESSIONAL ASSOCIATIONS /BODIES

1	Fellow of Institution of Engineering Technologists and Technicians
2	Fellow of Hydrological Society of Kenya
3	Registered Lead Expert in Environmental Impact Assessment and Audit by Kenya's National Environmental Management Authority
4	Member of African Groundwater Network
5	Member of Nile Basin Capacity Building Network
6	Member of Nile Integrated Water Resources Management Network
7	Member of Kenya Water Network (Kenya Water Cap)

15. LANGUAGE PROFICIENCY

	<i>Kiswahili, English, Luo, Japanese</i>
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16. CONFERENCES ATTENDED

	Nyadawa, M.O. (2010). Assessment of Applicability of Rapid Legal Assessment Tool (RLAT) in evaluation of adequacy of flood management policy in Kenya. Proc. Of International Symposium on modernizing local sustainable technologies as the engine for sustainable development, 25-26 th February, 2010, Safari Park Hotel, Nairobi. Kenya
	Nyadawa, M.O. ,Oloko, M.O. , Ogonda, G.O.andMutungi, K. (2011). Evaluation of Sand Dam Media Characteristics on Rate of Evaporation Loss. Workshop on Food Security and Environmental Sustainability in a world of changing climates 20 th -24 th Feb. 2011, Bondo University College. Bondo.
	M.O.Oloko, J.O. Onyando, M. Nyadawa, B.T.I. Ong'or, and G.Ogonda, G.O.and(2011). Water supply and Demand Analysis using WEAP Model (The case of Kisumu City). Workshop on Food Security and Environmental Sustainability in a world of changing climates 20 th -24 th Feb. 2011, Bondo University College. Bondo.
	Ogonda, G., Nyadawa, M. and Oloko, M. (2011). Updating Roadway Inventory Database Using Low-Cost Sensors. Proceedings of Fourth International Summer School Conference on Applied Geoinformatics for Society and Environment.. Pp.90-94l.

17. ABSTRACTS FOR CONFERENCES

	See publications
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18. PUBLICATIONS

<ol style="list-style-type: none">1) Nyadawa, M.O., Karanja, F. and Njoroge, T.(2010): Application of GIS-based spatially distributed hydrologic model in integrated watershed management: a case study of Nzoia basin, Kenya. Journal of Civil Engineering Research and Practice, Vol. 7 No.1, pp. 61 – 76.2) Nyadawa M.O, Mayabi A.O, and Kimathi M. (2010). The Effect of Surface Albedo and Grain Size Distribution on Evaporation Losses in Sand Dams. Journal of Agriculture Science and Technology, Accepted in Vol.13(1), pp 126-141.3) George M. Thumbi, F.K. Kirui and M.O. Nyadawa (2011): Distribution of Organochlorine Pesticides in Lake Naivasha, Kenya. International Journal of Disaster Management and Risk Reduction Vol.3 (3) pp. 149-155. ISSN 1992-2744.4) K'Orowe, M. O., Nyadawa, M. O., Singh, V. S. and RatnakarDhakate (2011): Hydrogeophysical parameter estimation for aquifer characterisation in hard rock environments: A case study from Jangaon sub-watershed, India.Journal of Oceanography and Marine Science Vol. 2(3), pp. 50-62. ISSN 2141-22945) K'Orowe, M.O., Nyadawa, M.O., Singh, V.S., Rangarajan, R. (2012). Geo-electrical resistivity and groundwater flow models for characterization of a hardrock aquifer system. Global Advanced Research Journal of Physical and Applied Sciences (GARJPAS) Vol. 1(1) pp. 012-031, November, 2012.
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