

Curriculum Vitae



PERSONAL DATA

Name: Watitwa B. **Masieyi**
Date of birth: October 7, 1964
Nationality: Kenyan
Marital Status: Married with children (Machocho, Masieyi and Khatenje)
Spouse: Selina Mandi Watitwa
Institution: Department of Meteorology, University of Nairobi (UON)
Appointment: Principal Technologist
No. of years with UON: years

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ACADEMIC QUALIFICATIONS

- M.Sc. in Water Resources Engineering; University of Dar es Salaam (1997)
- Postgraduate Course in Operational Weather Forecasting
- B.Sc. (Hons) in Meteorology, University of Nairobi (1990)

MEMBERSHIP IN PROFESSIONAL & RELATED INSTITUTIONS

- Life member, Kenya Meteorological Society (KMS)
- Member, Kenya DAAD Scholars Association (KDSA)
- Life member, University of Nairobi Alumni Association (UONAA)

EDUCATION AND TRAINING

1995 - 1997: University of Dar es Salaam, Tanzania. M.Sc. (Water Resources Engineering)

1991 WMO Regional Meteorological Training Centre (RMTC), Nairobi. Operational Training Course in Weather Forecasting

1987 – 1990: University of Nairobi, Kenya. Bachelor of Science (Meteorology, Mathematics and Physics)

1987 National Youth Service College, Gilgil; Pre-University Training Programme

1984 – 1985: Dr. Aggrey High School, Wundanyi; Kenya Advanced Certificate of Education

(‘A’ Level) – Mathematics, Physics, Chemistry and General Paper

1980 – 1983: Allidina Visram High School, Mombasa; Kenya Certificate of Education (‘O’ Level)-
English Language, Lugha ya Kiswahili, Mathematics, Additional Mathematics (Alt. S), Physics, Chemistry, Biology and
Geography

1973 – 1979: Mtopanga Primary School, Mombasa; Certificate of Education (*Primary Level*) –
English, Mathematics, and General Subjects (History, Civics, Geography, Natural Science and Agriculture)

ACADEMIC AND FELLOWSHIP AWARDS

August 2003: Awarded a MacArthur Foundation fellowship through Pan African START Secretariat (PASS) to attend a one month IDEAL Multidisciplinary Course on Tropical Freshwater Ecosystems Management at the Kenya Wildlife Service Training Institute, Naivasha, Kenya

October 1995: International award: DAAD (German Academic Exchange Program) Scholarship for postgraduate studies at University of Dar es Salaam, Tanzania from October 1995 to June 1997

June 1987: Government of Kenya Scholarship undergraduate studies at University of Nairobi, Kenya from June 1987 to April 1990

AWARDS AND COMMENDATIONS

January 2013: Staff Performance Appraisal exercise for 2011/2012 (University of Nairobi)

Results: Outstanding

March 23, 2011: commendation- UON QMS Automation System using Q-Pulse

Results: UON Deputy Vice Chancellor (Administration and Finance) commendation for active and positive role.

November 2008: Staff Performance Appraisal (University of Nairobi)

Results: Exceeds Expectations and can be enhanced to outstanding

August 2008: Commendation- ISO 9001: 2000 CERTIFICATION

Results: Vice Chancellor’s Commendation

April 2007: Certificate of Recognition (College of Biological & Physical Sciences- UON)

Results: Outstanding Work Performance in 2006

December 2005: Commendation by Chairman, Department of Meteorology (UON)

RESPONSIBILITIES

- Member College Performance Contract Committee since August 2011, duties include:
 - (a) Receiving and consolidating performance contract report from various schools and departments
 - (b) Preparation of the Quarterly Performance Contract reports
 - (c) Preparation of the Annual Performance Contract report
 - (d) Maintaining Performance Contracting data base and reports among other duties
 - (e) Ensuring achievement of performance targets
 - (f) Preparing employees in the College for the desired changes in the working styles, attitudes and work ethics
- University of Nairobi Quality Management System Internal Quality Auditor
- Member College performance contract committee
- Member College ISO (the International Organization for Standardization) implementation Committee
- Supervision of technical and other non-teaching staff in the Department of Meteorology
- Administrative assistant to the Head of Department
- Procurement of office and teaching materials
- Preparation of quarterly performance contract and departmental annual reports
- Validation of data received from the observatories
- Development of manuals for laboratory instruction and experiments in meteorology
- Introduction to undergraduate and postgraduate students and other researchers of the basic principles of meteorological and hydrological instruments and methods of observation
- Actively participates in assisting undergraduate and postgraduate students with their research project assignments
- Secretary of the income generating unit, thematic units and all standing and *ad hoc* committees of the Department

PROFESSIONAL EXPERIENCE

- In- charge of logistics during the implementation of the National Survey on Utilization of Weather Products project for Nairobi Province under the collaborative research initiative between KMD, UON (Departments of Meteorology and School of Mathematics), ICPAC, KARI and the Kenya Police. The survey (Funded by Government of Kenya) was conducted in the months of March and April 2009
- Participant and in-charge of logistics at the workshop on Integrating HIV/AIDS information in the teaching curricula of the School of Physical Sciences, University of Nairobi held on June 8, 2007 at IMTR, Nairobi
- Developed the proposal and assessment tool for baseline survey on integrating HIV/AIDS information in the teaching curricula for the School of Physical Sciences, University of Nairobi (July 2006). The project was later funded by UNESCO through African Women in Science and Engineering (AWSE)
- Developed a concept note and a proposal for the Establishment of Urban Environment Monitoring Station by the Department of Meteorology, University of Nairobi (August 2005). The proposal has been actualized (2009) and implemented through the support of College of Biological and Physical Sciences and Kenya Meteorological Department. The project has enabled the Department to acquire monitoring equipment for carbon monoxide and surface ozone worth US\$60,000 and meteorological instruments worth US\$6,000

SCIENTIFIC ENGAGEMENTS

- Participated in 11th PTC/PSC Meetings and Comprehensive Basin Wide Study (CBWS) Draft Final Report Review/Stakeholders Workshops on Regional Power Trade Project of the Nile Basin Initiative held 5 to 13, October 2011 at the White Sands Hotel in Dar es Salaam, Tanzania
- Participated in the FRIEND/Nile Hydrologic Modelling (HM) Component Workshop held in Cairo, Egypt; 22–25 May 2011 at SOFITEL Hotel. The workshop was organized by UNESCO Cairo Office.
- Participated in a short course on advanced methods of data analysis in environmental sciences using MATLAB (MATLAB Recipes for Earth Sciences at UON, September 21-25, 2009). The course on data analysis provided the theoretical background and the practical application of standard methods in environmental data analysis using software package MATLAB
- Participated in an educational field excursion exercise in Wote, Kwale, Malindi and Kibwezi for postgraduate students from 20th to 24th June 2009.
- Participated in an educational field excursion exercise in Katumani, Kitui, Masinga, Embu, Nanyuki and Nyahururu for postgraduate students from 11th to 16th May 2009. The sites visited include the sand dams, Umaa Dam construction site, Jatropha project, Masinga Dam, Projects under MIAD Centre, projects under CETRAD, Kalalu Weather Station and Global Atmospheric Watch (GAW) Station on Mt. Kenya
- Participated as a researcher in the FRIEND/Nile Hydrologic Modelling (HM) Component Workshop held in Nairobi, Kenya; 26–30 January 2009 at Kenya School of Monetary Studies. The workshop was jointly organized by UNESCO Cairo and Nairobi Offices.
- Participated in the Kenya In-country Evaluation and Dissemination Workshop on Higher Education Science and Curricular Reforms: African Universities Responding to HIV and AIDS held at Intercontinental Hotel, Nairobi on 8th December 2008 under the auspices of UNESCO and African Women in Science and Engineering (AWSE)
- Attended the National Training Course on Floods and Droughts Management held at Co-operative College of Kenya, Nairobi from 28th July to 7th August 2008. The course was conducted by Kenya Water Institute in collaboration with Applied Training Project (Nile Basin Initiative)
- Participated in the workshop on Higher Education Science and Curricular Reforms: African Universities Responding to HIV and AIDS Kenya Onsite Country Training at Kenya Institute of Education (KIE) Nairobi from 8th -10th May 2007 under the auspices of UNESCO and African Women in Science and Engineering (AWSE).
- Participant in IMTR Research Retreat at KWSTI, Naivasha held on 22nd -27th April 2007 to develop tools for the National Survey on Utilization of Weather Products under the collaborative research initiative between KMD, UON (Departments of Meteorology and School of Mathematics), ICPAC, KARI and the Kenya Police. Funded by Government of Kenya.
- Workshop on Climate Change Challenges in the Greater horn of Africa held at ICPAC (HQs. hosted within Kenya Meteorological Department): 8th March to 9th March 2007. Theme: Climate Change Adaptation needs in the Greater horn of Africa
- Participant and in-charge of logistics at the workshop on Integrating HIV/AIDS information in the teaching curricula of the School of Physical Sciences, University of Nairobi Held on 8th June 2007 at IMTR, Nairobi

- Participated in the National Hydrological Workshop at Kenya Wildlife Service Training Institute, Naivasha from Sunday, 28th to Tuesday, 30th May 2006
- Rapporteur for the Disaster Risk Reduction Strategy for Kenya Workshop held at Utalii College on 26th October 2006. Consultancy for Office of the President, Government of Kenya: April 2006 – January 2007. Prepared the workshop report under the Proceedings of the Workshop on Disaster Risk Reduction Strategy. Prof. N.J. Muthama was the PI
- Attended the First Workshop on Weather Related Risks and the Role of Actuarial Valuation held at Nairobi: 23-25 September 2003. Organized by ICPAC, UoN & 3E Foundation
- Participant: the IDEAL Multidisciplinary Course in the Tropical Freshwater Ecosystems Management organized with the support of MacArthur Foundation and Pan African START Secretariat (PASS) at the Kenya Wildlife Services Training Institute, Naivasha, Kenya from August 4th to August 31st 2003
- Resource Person/Participant at Meteorological Data and Information Stake-holders Workshop held at IMTR- Nairobi on 2nd July 2003. Made a presentation: Application of Meteorological Data and Information in the Department of Meteorology, University of Meteorology
- Participant: Surface Water and Groundwater Modelling for Water and Environmental Management Training Workshop held at the IMTR, Nairobi from 24th September to 5th October 2001 organized by IMTR and IHE-Delft, The Netherlands
- Participant: Regional Training Workshop on GIS Applications for Management of Earth Resources and Information Systems, at Chiromo Campus, UON; 1-7 February 1999 organized by PASS/UNESCO/University of Nairobi.
- Attended a 2-week course on “The use of PC-ARC/INFO in Water Resources Management”, which was held in the Department of Civil Engineering (Water Resources Engineering Program), University of Dar es Salaam, 26 Dec 1996 to 5 Jan 1997.

OTHER OFFICIAL ENGAGEMENTS

- Internal quality auditor, University of Nairobi Central Administration (Procurement Department and Business Centre) - 23 to 24 January 2013
- Resource person on Q-Pulse System Modules for Users during the refresher training for internal quality auditors held March 19-20, 2012 at the SCI, University of Nairobi
- Internal quality auditor, University of Nairobi Mombasa Campus (Schools of Business and Law) and Extra Mural Centre- 13 to 15 April 2011
- Resource person on Q-Pulse System during the refresher training for internal quality auditors held March 27-30, 2011 at the Kenya school of Monetary Studies, Nairobi
- Attended the refresher training for internal quality auditors held March 27-30, 2011 at the Kenya School of Monetary Studies, Nairobi
- Participated in the workshop on Q-Pulse automation held from 11 to 15 March 2011 at the Kenya School of Monetary Studies, Nairobi

- Attended training on effective minute writing and management held from March 10 to 11, 2011 at Chiromo Campus, University of Nairobi
- Attended training on Disaster Management held from February 7 to 8, 2011 at Chiromo Campus, University of Nairobi
- Participant: Training on Corruption Awareness held on 15th October 2010 in Millenium Hall 1 (CBPS)
- Internal Quality Lead Auditor at Departments in Central Administration, University of Nairobi between 28th September to 1st October 2010
- Attended training on Records Management and Corruption Prevention held on 14-9-2010 at CBPS, UON. Resource persons were from KNADS, KACA, UON
- Appointed member of CBPS Records Committee on March 12, 2010
- Internal Quality Lead Auditor at Departments in Central Administration, University of Nairobi between 25th to 29th January 2010
- Internal Quality Auditor for Non-Teaching Sections (Telephone, Care-taker, Dean of Students Office, Bursar, Principal's Office) of CBPS, University of Nairobi on 26th November, 2009
- Internal Quality Lead Auditor (pre-close-out internal audits) at Department of Veterinary Pathology, Microbiology and Parasitology, Faculty of Veterinary Medicine, University of Nairobi on 4th March, 2009
- Developed two UON QMS Procedures for CBPS: Procedure for Production and Sale of Detergents and Procedure for the Management and Production of Services in CBPS Science Workshop in October and November 2008 respectively
- Internal Quality Lead Auditor at School of Pharmacy, School of Nursing Sciences, University of Nairobi Institute of Tropical Infectious Diseases (UNITID) and Chiromo Funeral Parlour, University of Nairobi from 17th to 20th November, 2008
- Attended training for inspection and acceptance committee members held on Friday November 14, 2008 at UON Central Catering Unit
- Participant: Refresher training for internal quality auditors at Great Rift Valley Lodge, Naivasha from 4th to 7th November 2008
- Participant: Management and Secretarial staff training on customer care and public relations held on Saturday October 25, 2008 at SCI Corporate Laboratory
- Appointed to the School of Physical Sciences, CBPS Inspection and Acceptance Committee on August 29, 2008
- Internal Quality Auditor of Non - Teaching Sections (Security, College Library, Self Study Centre, Maintenance and Science Workshops) of CBPS, University of Nairobi on 28th April 2008

- Internal Quality Auditor at School of Dental Sciences, University of Nairobi from 25th to 28th March, 2008. *The University of Nairobi being ISO 9001:2000 certified in July 2008*
- Attended a Seminar on Cost Reduction and Revenue Enhancement held at the School of Physical Sciences Boardroom on 15th March, 2008. Organized by Principal, CBPS
- Attended Internal Quality Auditing Course held at Lukenya Guest House from 10th to 12th December, 2007. Resource persons from Kenya Bureau of Standards
- Attended Senior Management Rapid Results Approach Brief on 25th May 2007 in Taifa Hall, Main Campus- University of Nairobi
- Attended The 2nd Senior University Management Seminar on Results-Based Management under the Public Service Reform and Development Secretariat Capacity Building Programme for Transforming the Public Service: Orientation for results for the University of Nairobi held on 10th to 11th May 2007 at Utalii Hotel in Ruaraka, Nairobi
- Workshop on Performance Contract and Procurement of Goods and Services SPS Boardroom on Thursday, 15th March 2007 (Service Charter, Health and safety, Procurement plans and Budget, Operationalization of the Public Procurement and Disposal Act, 2005), New Public Procurement and Disposal Regulations, 2006). Organized by Office of the Principal, CBPS
- Training in the use and implementation of ISO 9001-2000 Standard at JKML Exhibition Hall, University of Nairobi from Tuesday 20th to Thursday February 2007. Resource persons from Kenya Bureau of Standards
- Attended a Workshop on Procurement of Goods and Services held on Thursday, 3rd August 2006 at Chiromo Campus, UON
- Attended the Training for the Faculty Website Champions between July 18, 2006 to July 19, 2006 at ICT Centre, University of Nairobi
- Participated in the In-House Training Workshop on the Formulation of the Department of Meteorology Strategic Plan for the period 2004 to 2009 held at Ndallas Hotel, Matuu from 31st August to 3rd September 2004. Jointly supported by UNESCO, University of Nairobi (UON), & UON Enterprises and Services Limited
- Participant/Resource Person: Workshop on Implementation of Phase one of the University of Nairobi Chiromo Science Park and Museum held at Reef Hotel, Mombasa- 9-12 July 2003

PUBLICATIONS AND REPORTS

- NJ Muthama, **WB Masieyi**, R.E. Okoola, A.O. Opera, J.R. Mukabana, W Nyakwada, S. Aura, B.A. Chanzu and MM Manene, , 2012: *Survey on the utilization of weather information and products for selected districts in Kenya*. Journal of Meteorology and Related Sciences, Vol. 6, No. 1, 35-49
- Masieyi, W.B. and Kariithi, D.N., 2010: Report of the site survey for the establishment of a proposed meteorological station at South Eastern University College (SEUCO) in Kitui County, Kenya

- Masieyi, W.B., et al, 2007: A report of a pilot study on the national survey on utilization of weather products, Government of Kenya
- WB Masieyi., 2003: *Impacts of El Nino Southern Oscillation on Transport and Communication Sectors in Kenya*. A paper presented during the IDEAL Multidisciplinary Course in the Tropical Freshwater Ecosystems Management organized with the support of MacArthur Foundation and Pan African START Secretariat (PASS) at the KWSTI, Naivasha, Kenya from August 4th to August 31st 2003
- WB Masieyi, 2003: *Application of Meteorological Data and information in the Department of Meteorology, University of Nairobi*. A paper presented at the Meteorological Data and Information Stakeholders Workshop held at IMTR, Nairobi; 2 July 2003
- WB Masieyi, 1997: *Time Series Analysis of Monthly Rainfall in Tanzania*. M.Sc. Dissertation, Department of Civil Engineering, University of Dar es Salaam, Tanzania. Supervisor: Prof. Raj Kachroo
- WB Masieyi, 1990: *The Predictability of the East African Rains Using the Southern Oscillation Index*. B.Sc. Project Report, Department of Meteorology, University of Nairobi, Kenya. Supervisor: Prof. L.J. Ogallo

LANGUAGES AND PROFICIENCY

<u>Language</u>	<u>Writing</u>	<u>Proficiency in</u> <i>reading</i>	<i>Speaking</i>
English	good	excellent	good
Swahili	good	excellent	excellent

REFERENCES

To be provided on Request