

CURRICULUM VITAE FOR DR.DEBORAH ATIENO ABONG'O

1. PERSONAL PARTICULARS

SURNAME : Abong'o
OTHER NAMES : Deborah Atieno
NATIONALITY : Kenyan
DATE OF BIRTH : 30th December 1966
ADDRESS : University of Nairobi, Department of chemistry, P.O BOX 30197-00100, Nairobi
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2: ACADEMIC QUALIFICATION

DATE	INSTITUTE ATTENDED	QUALIFICATION OBTAINED
December 2009	University of Nairobi	Doctor of philosophy degree (PhD) –In environmental chemistry
2001	Maseno university	Postgraduate diploma in human resource management
1995-1997	University of Botswana	Master of science degree in analytical chemistry
1988-1991	University of Nairobi	Bachelor of Science Degree- Chemistry major (Second Class Honor ,Upper Division)
1985-1987	Kituro High School (Kabarnet)	Kenya Advance Certificate of Education (K.A.C.E), 2Principal, 2 subsidiaries
1981-1984	Londiani secondary school (Londiani)	Kenya certificate of education (KCE), Division 2 (24 points)
1974-1980	Jamji Primary School (Kericho)	Certificate of Primary education (CPE), 25 points

3: TEACHING EXPERIENCE

13th September 2010 to date : Lecturer University of Nairobi

Undergraduate Teaching Experience (University of Nairobi)

SCH103: General and Physical Chemistry

SCE 201: Introduction to Environmental Chemistry

SCH204: Introduction to Reaction Kinetics and Electrochemistry

SCA 302: Instrumental Methods of Analysis II

SCH 401: Chemistry of Transition Elements

SCE 407: Hazardous Waste Management

SCH 408: Nuclear and Radiation Chemistry

Post graduate teaching experience: (University of Nairobi)

SCH 522: Water Chemistry

SCH 523: Atmospheric Chemistry

SCA 502: Advanced Chemical Separation

SCE 502: Advanced Water Chemistry

SCI 505: Waste Water Treatment Technology

SCE 509: Environmental Law, Policy and Diplomacy

August 2002-November 2004

Part-time Chemistry Lecturer (Maseno university)

Undergraduate Teaching Experience

SCH102: Basic inorganic chemistry

SCH202: Inorganic chemistry I

SCH 205: Inorganic chemistry II

SCH 306: Inorganic chemistry III

SCH 310: Qualitative and quantitative analysis

SCH402: Inorganic reaction mechanism

Post graduate teaching experience: (Maseno university)

SCH 801:Analytical techniques

6TH January 1992-30th November 1992

Untrained teacher at Ranen Secondary School, Migori County, subjects taught: Mathematics, Chemistry and Biology

4: (I) SUPERVISION OF POSTGRADUATE STUDENTS (PhD)

Student name, Thesis title, Supervisors

1. Enock Moseti Osoro: 180/51442/2017 (**UON**) (On going)

Title: Assessment of selected polybrominated diphenyl ethers in Nairobi River drainage basin, Kenya and study on their photo catalytic degradation: supervisors: Prof S.O. Wandiga , Dr. V. O. Madadi, **Dr. D. A. Abong'o**,

2. Momanyi Violet Nakhungu : Q97/33012/2015 (**KU**) (On going)

Title: Assessment of pesticides and their residue levels in tomatoes grown in open fields and greenhouses in Mwea sub-county: supervisors: Prof. M. Keraka, **Dr. D. A. Abong'o** , Dr. P. Warutere

4: (II) SUPERVISION OF POSTGRADUATE STUDENTS (MSc) since 2010

Student name, Thesis title and the Supervisors

1. Kasima Evelyn: 156/72341/2008, Title: Efficiency of municipal waste water treatment plants in Kenya: A case study of Mombasa Kipevu treatment works (Completed (**2014, UON**): Supervisors, Prof A.O.Yusuf, **Dr. D. A. Abong'o**, Prof D.K. Kariuki.

2. Joshua Sila Munyao : 156/68845/2011, Title: Green synthesis of silver nanoparticles synthesized using *Eucalyptus Corymbia* leaf extract, Characterization and antimicrobial application(**Completed, 2015, UON**) Supervisors, Prof G.N Kamau, **Dr. D.A.Abong'o**, Dr. I. Michira, Prof. F. B. Mwaura.

3. King'ola Angela Manduu , I56/69194/2011, Title: Residue concentration of chlorpyrifos in French Beans and soil and assessment of Dimethoate and chlorpyrifos residue in French Beans in Nairobi, Kenya (Completed, **2015 , UON**), Supervisors, Prof S.O Wandiga, **Dr. D. A. Abong'o**

4. Enoch Moseti Osoro I56/69231/2011, Title: Assessment of organochlorine pesticide residue levels in sediment, soil and water from Rusinga Island, Lake Victoria, Kenya(**Completed 2015 , UON**), Supervisors, Prof S.O Wandiga, **Dr. D. A. Abong'o**

5. Jacinta Mbithe Kinyunzu, I56/68770/2011, Title: Residue concentration of Carbaryl pesticides in soil and tomatoes from Hippo, Kingfisher and Harnekop Green house farms in Thika and Naivasha, Kenya (Completed, 2015, UON) Supervisors, Prof S.O Wandiga, Dr. D. A. Abong'o
6. Julie Kidaha, 156/68771/2011 , Title: Assessment of new persistence organic pollutants-pesticides in air and soil samples from sites in Nairobi and Mount Kenya (Completed, 2016, UON) Supervisors, Prof S.O Wandiga, Dr. D. A. Abong'o
7. Tsuma Jenipher E. Panyako, 156/68547/2011, Title: Methane and heavy metals levels from leachate at Dandora dumpsite, Nairobi, Kenya (Completed, 2016, UON) Supervisors, Prof S.O Wandiga, Dr. D. A. Abong'o
8. Hinga Mbugua 156/80889/2012, Title: The effects of septic tanks sewage disposal system distances on borehole water quality in Ongata Rongai, Kajiado County, Kenya (Completed, 2016, UON) Supervisors, Dr. D. A. Abong'o, J.O. Onyatta
9. Victor Kyalo Nthusi, 156/63840 /2010, Title: Assessment of polychlorinated biphenyls and organochlorine pesticide residue levels in fish from Nandi-lower Nyando River sub-catchment, Kenya (Successful examination defense, 2017 , UON) Supervisors, Dr. D. A. Abong'o , Prof S.O Wandiga
10. Kyalo Onesmus Mwaniki I56/73912/2014, Title: Determining the pre-harvest interval for Carbendazim in control of fungal diseases in French beans (Successful examination defense, 2017, UON) Supervisors, Dr. D. A. Abong'o , J.O. Onyatta, J.G. Kithure
11. Joseph Mwangi Muraga 156/64995/2010, Title : Assessment of dissolved Ions and microbial coliform in water from selected sites of the upper Athi River sub-catchment, Kenya (Successful examination defense, 2017 , UON) Supervisors, Prof S.O Wandiga, Dr. D. A. Abong'o
12. David Owuor Ojok I56/70265/2011, Title: Investigating the synergistic effects of TiO ₂ modified clay in disinfection and purification of water (submitted for examination, 2017, UON) Supervisors, Prof S.O Wandiga, Dr. D. A. Abong'o
13. Fredrick Ochieng Nyateng 156/64713 /2010, Title: Assessment of polychlorinated biphenyls and organochlorine pesticide residue levels in fish from Kericho-upper Nyando River sub-catchment, Kenya (Successful examination defense, 2017 , UON) Supervisors, Dr. D. A. Abong'o , Prof S.O Wandiga
14. John Ndungu Mmbaga I56/80870/2012, Title : Design and fabrication of polymer-layered silicate nano-composites (plns) for water remediation (on going) Supervisors Dr. D. Mbui, Dr. D. Andala Dr. D. A. Abong'o
15. Bernard Odhiambo Oyucho I56/68811/2013, Title: Determination of methanol contents in different brands of alcoholic beverages found in informal settlements in Nairobi County, Kenya (on going) Supervisors, Prof A.O. Yusuf, Dr. J.O. Onyatta, Dr. D. A. Abong'o
16. Emily Kwamboka Okworo I56/68460/2013, Title: Assessment of the fate of selected pesticides applied on vegetables in Naivasha area (submitted for examination, 2017, UON) Supervisors, Dr. A. A Ochieng, Dr. V. O.Madadi, Dr. D. A. Abong'o
17. Mpekethu Vivian Gacheri I56/75329/2014, Title: Assessment of pesticide residue levels in khat,

water, sediment and soil, in khat growing areas: A case study of Igembe south, Meru county, Kenya (on going) Supervisors Prof S.O Wandiga, Dr. V. O. Madadi, Dr. D. A. Abong'o
18. Dickens Ouma Omondi I56/74957/2014, Title: Assessment of pesticides residue levels in water, sediments and soil fent in irrigated rice farms-case study of Ahero and Bunyala farms, Kenya (on going) Supervisors Dr. V. O. Madadi , Prof S.O Wandiga, Dr. D. A. Abong'o
19. Maleve Johnstone Mwanzui I56/79862/2015, Title: Characterization of ground tire rubber modified bitumen for management of asphalt concrete pavement distresses (on going) Supervisors, Dr. D.A. Abong'o , Dr. F.D. Odour, Prof S. K. Mwea
20. Kipmutai Chumo Joseah I56/82856/2015, Title: Assessment of domestic water quality of dams in Chepalungu District, Bomet County (on going) Supervisors Dr. F.D. Odour, Dr. D.A. Abong'o
21. Denis Owino Onyango I56/80849/2015, Title: Assessment of water quality from shallow wells in informal settlements in Kenya: A case study of Nyalenda Estate, Kisumu County, Kenya (on going) Supervisors, Dr. D. A. Abong'o , Dr. J.O. Onyatta, Dr. J. Kithure

4: (III) SUPERVISION OF UNDERGRADUATE STUDENTS

Student name, project title and Supervisors	
1	Thuo Joseph Ng'ang'a I14/53120/2012; Title: Application of Geoaccumulation Index on the assessment of heavy metals pollution of soil in selected urban farms in Nairobi County, Kenya (Completed, 2015) Supervisors Dr. J.O. Onyatta, Dr. D. A. Abong'o , MS V. Muinde
2	Nyamu Gideon Waithaka I20/1959/2013, Title: Determination of speciation products of antimony in commercial bottled water in Nairobi County, Kenya (Completed, 2016) Supervisors Dr. J. Kithure, Dr. D. A. Abong'o , MS V. Muinde
3	Kinyua Timothy M I20/2422/2006: Title: Water quality in Boreholes from Kibera and Wanyee Estates, Nairobi County, Kenya (Completed, 2016) Supervisors, Dr. D. A. Abong'o Dr. J. Kithure, MS V. Muinde

5: (a) ACADEMIC PUBLICATIONS AND REPORTS

1	Kipmutai C. J, Oduor F. D. O., Abong'o D. A. (2017) :Assessment of Domestic Water Quality of Dams in Chepalungu Sub-county, Bomet County, Kenya. <i>The International Journal of Science & Technology</i> 5(6) PP 144-130
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2	Muraga J M, Wandiga S O, Abong'o D A. (2017): Assessment of Dissolved Ions and Microbial Coliform in Water from Selected Sites of the Upper Athi River Sub-Catchment Area, Kenya : <i>Journal of Applied Chemistry</i> 10(5) PP 101-109
3	Abong'o D.A, Onyatta J.O, Hinga M (2017): The Effect of Septic Tanks Sewage Disposal System Distances On Borehole Water Quality in Ongata Rongai, Kajiado County, Kenya: <i>European International Journal of Science and Technology</i> 6 (3) PP 1-10
4	Mwaniki O K, Abong'o DA, Onyatta J O, Kithure J G (2017): Investigating the Effects of Formulation, and Geographical Location on Degradation of Carbendazim in French Beans, Kenya: <i>The International Journal of Science & Technology</i> 5(2) PP 44-51
5	Tsuma J P E, Wandiga S O, Abong'o D A. (2016): Methane and heavy metals Levels from leachates at Dandora dumpsite, Nairobi County, Kenya: <i>Journal of Applied Chemistry</i> 9(9) PP 39-46
6	Osoro EM, Wandiga SO, Abong'o DA, Madadi V O and Macharia J W. (2016): Organochlorine Pesticides Residues in Water and Sediment from Rusinga Island, Lake Victoria, Kenya: <i>Journal of Applied Chemistry</i> 9(7) PP 56-63
7	Abong'o DA, Wandiga S O , Jumba I O, Van den Brink P J. Naziriwo B B , Madadi V O, Wafula G A, Kylin H, Nkedi-Kizza Peter (2015): Occurrence, abundance and distribution of benthic macroinvertebrates along Nyando River drainage basin, Kenya: <i>African journal of aquatic Science</i> 40(4)373-392
8	Abong'o DA, Wandiga S O, Jumba I O, Van den Brink P J. Naziriwo B B , Madadi V O, Wafula G A, Kylin H, Nkedi-K Peter (2015): Organochlorine pesticides residue levels in soil from the Nyando River catchment ,Kenya. <i>African Journal of Physical Sciences</i> 2 (1) 18-32
9	JM Sila, I. Kiio, F.B Mwaura, I. Michira, D Abong'o, E. Iwuoha, G.N, Kamau (2014) :Green synthesis of silver nanoparticles using Eucalyptus <i>Corymbia</i> Leaves Extract and antimicrobial application: <i>International Journal of BiochemiPhysics, Vol.22, 21-30</i>
10	Abong'o DA, Wandiga S O, Jumba I O, Madadi V O, Kylin H (2014): Impacts of pesticides on human health and environment in River Nyando Catchment, Kenya. <i>International Journal of Human, Arts, Medicine and Sciences</i> 2: 1-14

11	Naziriwo Betty Bbosa, Wandiga Shem Oyoo, Madadi Odongo Vincent and Abongo Debra Atieno (2009) : Physiochemical parameter and magnetic speciation of iron in Nakivubo channel and Lake Victoria waters: <i>Lake & Reservoirs: Research and Management</i> .14, pp127-137
12	JRE Thabano, D.Abong'o , G.M. Sawula (2004) determination of nitrates using suppressed ion chromatography after copperised cadmium column reduction : <i>Journal of chromatography A, Vol 1045, pp.153-159</i>

5: (b) OTHER PUBLICATION NOT PEER REVIEWED

DATE	INSTITUTION	TITLE	Authors
September 2009- 4 TH November 2009	Organization for the Prohibition of Chemical Weapons (OPCW) International Cooperation and Assistance/ICB	Dioxins and their sources, analytical methodology, exposure and impacts on environment	D. A. Abong'o (KENYA) Nguyen Thi Ha (VIET NAM)

5: (C) OTHER CONTRIBUTIONS TO LITERATURE

DATE	INSTITUTION	TITLE
4 th June 2004-June 2009	University of Nairobi	Occurrence , distribution and environmental impact of organochlorine pesticides residue in lake Victoria catchment: A case study of Nyando River drainage basin of Winam Gulf in Kenya (PhD Thesis)
June 2000-October 2000	Maseno University	Communication and conflict resolutions in Donor funded Rural Development projects in Kenya: A case study of Sondu-Miriu Hydro-electric Power Project (Postgraduate diploma research project)
September 1996-Aug 1997	University of Botswana	Nitrate determination in surface water using Ion chromatography, after copperised cadmium column reduction. (Msc Thesis)

5: (d) MODULE DEVELOPEMENT

DATE	COURSE CODE	INSTITUTION	TITLE
August 2015 to Date	SCE 201	University of Nairobi	Introduction to Environmental Chemistry (on going)

6: PAPERS PRESENTED IN CONFERENCE, SEMINERS, WORKSHOP AND ATTENDANCE

DATE	INSTITUTION	TITLE
21-24 th November, 2016	University of Nairobi	Mwaniki O.K, Abong'o D.A, Onyatta J.O, Kithure J.N (2016): Determination of the pre-harvest interval for Carbendazim in control of fungal diseases in French Beans. ANCAP symposium, Nairobi, Kenya
15-17 th June 2016	Reef Hotel, Mombasa	Onyatta J.O, Abong'o D.A, V. Muinde (2016): Assessment of heavy metal pollution in selected urban farms in Nairobi County, Kenya (EASA-Environmental and analytical chemistry conference and theoretical chemistry,
Friday 4 th January, 2013	University of Darussalam	Abong'o DA, Wandiga SO, Jumba I O: (2013) Occurrence, abundance and distribution of benthic macroinvertebrates in the Nyando River catchment, Kenya: ANCAP symposium, University of Darussalam, Tanzania
Saturday 5 th January, 2013	University of Darussalam	Abong'o DA, Wandiga SO, Jumba I O: (2013) Organochlorine pesticide residue levels in sediments, water, and aquatic weeds from the Nyando River catchment, Kenya: ANCAP symposium, University of Darussalam, Tanzania

7: CONFERENCE, CONGRESS, SYMPOSIUM, SEMINAR AND PROFESSIONAL MEETING ATTENDED

DATE	INSTITUTION	CERTIFICATE AWARDED
21-24 th November, 2016	University of Nairobi	Member of the organizing committee (ANCAP)
5-8 th December 2010	Imperial Hotel Kisumu	No certificate awarded: International conference on community-based disaster risk reduction and climate change adaptation
15 th -19 th December 2008	IFS workshop held at Egerton University , Njoro	Certificate awarded for participation in research and management skills for women in agricultural and natural science workshop.
29 th April-4 th May 2008	IFS, CREPA, INASP and Maji na Ufanisi workshop at Hillpark Hotel, Nairobi	Certificate awarded for being a resource person for proposal writing and manuscript preparation for publication.

8: Other trainings and workshop attended

DATE	INSTITUTION	CERTIFICATE AWARDED
11/1/2017	University of Nairobi (ESCOBOX) (2017)	No certificate awarded

21 st March 2016	University of Nairobi	Research grants management information system (RGMIS) - No certificate awarded
September 2011	University of Nairobi (UNES)	Certificate awarded for successfully completing professional course in research and grant proposal writing by the University of Nairobi (2011)
17 th July -25 th Sep 2009	Organization for prohibition of chemical weapon (OPCW),The Hague, Netherlands	Certificate awarded for participation in OPCW 2009 associate programme The Hague, Netherlands
2 nd -21 st Aug. 2009	University of surrey –England	Certificate awarded for participation in university of surrey component of OPCW Associate programme 2009
2 nd -6 th march 2009	Pan African Chemistry Network (PACN) Workshop held at JKUAT	Certificate awarded for participation in the gas chromatography –mass spectrometry (GC-MS)Workshop
20 th August. -3sep 2008	Ministry of Education workshop held at Kisumu Polytechnic	Certificate awarded for participation in management of instructional materials for Free Secondary Education
16h to 18 th June 2008	Ministry of Education workshop held at Kisumu polytechnic	Certificate awarded for participation in secondary infrastructure sensitization workshop
2 nd -8 th June 2007	University of Abomey Calavi, CREPA and IFS Workshop at hotel DE port Cotonou Benin	Certificate awarded for training on pesticides analysis quality assurance and development of scientific articles
8 th -12 th January 2007	University of Nairobi and university of free Amsterdam –Nairobi-Kenya	Certificate awarded for training on UNEP Chemical POP Training workshop of the project ‘assessment of existing capacity and capacity building needs to analyze POPs in developing countries
21 st -22 nd October ,2006	ANCAP-IFS International training workshop (Arusha –Tanzania)	Certificate awarded for training on scientific methodology, development of grant application and access to scientific literature
12 th October 2006	Arusha Tanzania workshop	Certificate awarded for training on Great lake intercontinental instrumentation collaborator on remote control of chemical instrumentation.
21 st November-2 nd December 2005	Institute of marine science Zanzibar	MASMA-Ecotoxicology and Risk Training Course

11 th -22 nd July 2005	Makerere university –Kampala Uganda	ANCAP Seminar (fate and transport of pesticides in the environment)
9h -27july 2001	Kenya institute of administration(K.I.E)	Senior management seminar (SMS- No.110)

9: EXAMINERSHIP OF THESIS

DATE	INSTITUTE	TITLE
12 th April, 2017	University of Nairobi (Internal Examiner)	Ojok David Owuor Reg:156/70265/2011: Title “Investigating the synergistic effects of titanium (IV) oxide modified clay in disinfection and purification of water”
22nd December 2016-20 th January 2017	University of Nairobi (Internal Examiner)	Mwaniki Onesmus Kyalo Reg:156/73912/2014: Title “ Determining the pre-harvest interval for Carbendazim in control of fungal diseases in French Beans”
7 th December 2016-6 th January 2017	University of Nairobi (Internal Examiner)	Ochieng Ronald Okonjo Reg:156/79855/2012: Title “Investigation and characterization of interfering pyrolysis productions of wood debris in Fire Arson analysis”
27 th November 2015- 8 th January 2016	University of Nairobi (Internal Examiner)	Hinga Mbugua Reg: 156/80889/2012: Title “The effect of septic tanks sewage disposal system on borehole water quality in Ongata Rongai, Kajiado County, Kenya”

10 MEMBERSHIP OF COMMITTEE OF UNIVERSITY OF NAIROBI

DATE	INSTITUTE	COMMITTEE
2015 to Date	University of Nairobi	Curriculum Review & Development- Member
2014 to 2015	University of Nairobi	ISO Committee- Member
2014 to Date	University of Nairobi	Postgraduate and Seminars- Member

11 INVITED REVIEWS

DATE	JOURNAL	Manuscript number	TITLE
2015	Environmental Monitoring and Assessments	EMAS-0-15-02231	Multi pesticide residue detected in UHT and Raw milk samples followed by GC- μ ECD

12 (I) MEMBERSHIPS OF PROFESSIONAL BODIES

	DATE	Organization
1	2009	Member of the Kenya chemical society (Nairobi chapter) No 326
2	2005	Member of African network for chemical analysis of pesticides (ANCAP)
3	2008	Member of southern and eastern Africa network and analytical chemists (SEANAC)
4	2007	Member of society for environmental toxicology and chemistry (SETAC)-Africa

12 (II) MEMBERSHIPS OF PERSONS WITH DISABILITY

	DATE	Organization
1	2015	Member of the National Council for persons with disability (Reg NO. NCPWD/P/2327/12)

13: SCHORLASHIP AND RESEARCH GRANT AWARDS:

1	Deans committee (the university of Nairobi) grant award (2011),Ksh 250,000 (Administered by the university of Nairobi) used to fund research work for two MSC students
2	International foundation for science (IFS) research grant award (2009), USD 12,000 (Administered by the university of Nairobi) used to fund research work for two MSC students at the university of Nairobi
3	International foundation for science (IFS) research grant award (2006), USD 10,500 (Administered by the university of Nairobi) for PhD study
4	Higher education loans board (H.E.L.B-KENYA) partial scholarship (2004-2007) Kshs 450,000 (Administered by the university of Nairobi) for PhD study

5	German academic exchange services(DAAD)scholarship (1995-1997) (Administered by the University of Botswana) for MSC degree study
6	Government of Kenya scholarship (1988-1991),Ksh 55,040 (Administered by the University of Nairobi) for BSC degree study

14 OTHER WORK EXPERIENCES

<p>1^t June 2008 to 13th September 2010 (Job group N)</p> <p>19th September 2007-30th May 2008 (Job group M)</p> <p>13th September 2000 to 18th September 2007 (Job group L)</p> <p>22nd March 1995 to 12th September 2000 (Job group K)</p> <p>4th November 1992 to 21st March 1995 (Job group J)</p>	<p>Principal chemist/analyst: in charge of regional laboratory based in Kisumu, undertaking all the government administrative procedures, procurement and liaison with development partner on behalf of the government chemist.</p> <p>Senior Analyst/Chemist: undertaking projects and research work, administration, procurement and coordinating laboratory activities at Kisumu branch level.</p> <p>Analyst I/Chemistry I Job description: undertaken projects and research into techniques used in chemical analysis; carried out water quality and pollution control activities.</p> <p>Analyst II/Chemistry II, Job description included: Undertaking laboratory experiments and assignments of more complex nature. Applying various analytical techniques for quality control of water, food, industrial products and waste water and forensic investigation and giving evidence in the Kenyan Courts of law</p> <p>Analyst III/Chemist III, on probation period and in-house training induction on various laboratory operation procedures and chemical analysis techniques, carried out simple laboratory assignments and experiment under supervision of experienced officers</p>
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15 OTHER ACHIEVEMENTS

8 th September 1999 to June 2004	<p>Acting Senior Analyst/Senior Chemist: in charge of government chemist department (western Kenya regional laboratory) Kisumu branch. Job description included, executing all government administrative procedures, management of technical staff, facilitated training of junior officers and students on attachment from institutions of higher learning. Liaising with other ministries /institutions on professional and technical matters.</p>
12 th June 2007-12 th September 2010	<p>Principal chemist/analyst: in charge of regional laboratory based in Kisumu, undertaking all the government administrative procedures, procurement and liaison with development partner on behalf of the government chemist.</p> <p>Member of district development committee (DDC) and district executive committee (DEC) Kisumu East District.</p>

16 OUTREACH ACTIVITIES

DATE	INSTITUTE	MEMBER
2016 to date	Immanuel School for the deaf (Ringa, Homabay County)	School board of Management
2009-2013	Chianda High School (Siaya County)	Board of governors (BOG)
2007-2010	ST. Teresa Girls Secondary School (Kisumu County)	Board of governors (BOG)
2007-2010	ST. Teresa Girls Secondary School (Kisumu County)	Parents Teachers Association Chairperson (PTA- Chairperson)
1999-2002	Xaverian Primary School (Kisumu County)	Parents Teachers Association (PTA)

17: ACADEMIC AND PROFESSIONAL REFEREES

1	<p>Prof John Onyari (chairman) department of chemistry , university of Nairobi P.O Box 30197-00100, Nairobi. e-mail: jonyari@uonbi.ac.ke cell phone: 0724144904, or 0736668059</p>
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2	<p>Prof Shem O. Wandiga dept. of Chemistry ,University of Nairobi P.O Box 30197-00100,Nairobi Email :wandigas@uonbi.ac.ke Cell phone:0722816153 or0734872675</p>
3	<p>Prof Isaac O. Jumba , University of Nairobi , Department of chemistry Box 30197-00100,Nairobi Email: ijumba@uonbi.ac.ke Cell phone:0722336886</p>
4	<p>Leonard Waweru kariuki Government chemist Government chemist department P.O Box 20753,Nairobi Email:lkwaweru@yahoo.com, Phone 0722815300</p>