# CURRICULUM VITAE

# 1.0 PERSONAL INFORMATION

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| **Description: C:\Users\User\Pictures\KOICA photos, 9th-29th nov, 2014, seoul, south korea\Camera Roll\WIN_20141021_093255 (2).JPG** | Name: DR. WANGILA PHANICE FEDHA  Date of Birth: 22nd December 1972  Nationality: Kenyan  ID No. 11471806  Gender: Female  Marital Status: Married with three children  Address: P.O. Box 12242-20100 Nakuru  Tel No: 051 210070 0r  Mobile No: 0721 405111  E-mail Address: [tsikhungu@yahoo.com](mailto:tsikhungu@yahoo.com)  Languages: English, Kiswahili, Luhya  Citizenship: Kenyan  Place/Country of Birth: Kakamega/Kenya Current **Academic Rank: Lecturer** |

# 2.0 QUALIFICATIONS

## 2.1 ACADEMIC QUALIFICATIONS

|  |  |  |  |
| --- | --- | --- | --- |
| Year | Certificate Obtained | University/Institution | Title of Thesis |
| 2016 | PhD in Analytical Chemistry | Egerton University | Analysis of Micronutrients and Heavy Metals of Indigenous Reed Salts and Soils from Selected Areas of Western Kenya |
| 2000 | Masters of Science (MSC) in Chemistry | Egerton University | Determination of possible Sources and Seasonal of Fluctuations Organochlorine Pesticides in Lake Nakuru, Kenya |
| 1996 | B.Ed (Science) Chemistry and Mathematics; 2nd Class Honors Upper Division | Kenyatta University | |
| 1990 | K.C.S.E | Nyamira Tech. Sec. Sch. | |
| 1985 | KCPE | Matsakha Primary School |  |

## 2.2 PROFESSIONAL COURSES

1. Plagiarism Detection Training at University of Kabianga on 5th February, 2018, in Computer Science Laboratory, by Turnitin.
2. Introduction to ISO/DIS 9001:2015 Quality Management Requirements Course at Agricultural Resource Centre-Nakuru on 23rd-25th June 2015.
3. Short Course in Fourier Transform Near Infra-Red (FTIR)Techniques, 25th April 2014
4. Supporting and Fostering University Faculties of Developing Countries at Soongsil University, Seongnam and Seoul, South Korea, 9th-29th, October 2014
5. Publications writing workshop, Mwanza, Tanziania, 8th-11th Aug., 2012
6. Research proposal writing training by DAAD, NCST at Kabarak University,25th-27th July, 2012
7. ISO Certification Workshop by ALPEX consultants, 7th-9th Feb., 2012,Kabianga University College
8. National Council for Science and Technology log frame development workshop, 29th-30th , Oct., 2011
9. Kabianga University College Examinations Workshop, 28th Oct, 2011

## 2.3 OTHER COURSES

1. Gender mainstreaming workshop at Kabianga University College, 2011
2. Anticorruption workshop at Kabianga University College, 2011
3. National Environmental Tribunal Awareness campaign workshop held at Stem Hotel, Nakuru, 12th-14th March,2004
4. Sustainable Environmental Management Course No. 6/2003, 29th Sept-3rd Oct. 2003
5. Workshop on strategic plan for environment and development in the Nakuru region, 12th –13th September 2001 at Kunste Hotel, Nakuru.

## 3.0 FELLOWSHIPS

1. Supporting and Fostering University Faculties of Developing Countries at Soongsil University, Seongnam and Seoul, South Korea, 9th-29th, October 2014

## 4.0 EMPLOYMENT HISTORY/WORK EXPERIENCE

1. **University of Kabianga**

2016 March to date Lecturer, Physical science department Chemistry, University of Kabianga

Responsibilities Lecturing in Analytical Chemistry

Setting and marking of examinations

Carrying out Research work

Supervision of Graduate and Undergraduate students

Mentoring of students.

Departmental ISO Coordinator

School Quality Assurance Coordinator

2009 to 2016 March Head and Lecturer, Physical science department Chemistry, University of Kabianga

Responsibilities Management of the Departmental affairs;

Lecturing in Chemistry,

Setting and marking of exams

Carrying out of Research

Supervision of Graduate and Undergraduate students

Students’ Mentoship.

**Achievements:** some of the major achievements are outlined below;

1. Managed a department which gave birth to two departments Physical Scienecs Department and Mathematics and Computer Science department
2. During this period I facilitated and participated in the development of 10 curricula were developed, 2 phD and 7 Undergraduate ones, awaiting approval for launching.
3. Promoted teamwork in the Department; during this period the KABUCHEM enterprise in the department was initiated with an effort of financial promotion of the department.
4. Ensured quality curriculum delivery, having trained as an ISO auditor, ensured the same in the department, enhancing delivery of work and customer satisfaction among others.
5. Begun with an amorphous Department consisting of Chemistry, Physics, Mathematics, Computer Science and Statistics where I managed all the matters that concerned the department harmoniously including staff and students besides others, until 2014 when it was split into two Departments, Physical Sciences (chemistry and Physics) and Mathematics and Computer Science.
6. Development of nine (9) curricula for the department; two (phD) and seven (7) undergraduate programmes.
7. Initiated the project for the production of detergents as an income generating project for the department that is now operational
8. Initiated the process for development of Physical Science Departmental Magazine that is still in its initial stages of approval of funds for the same
9. Initiated the University of Kabianga linkage with TRFK Kericho that is functional.
10. Initiated the University of Kabianga linkage with ChromAfrica that is functional
11. **Kabarak University**

January 2005-2009 Kabarak University, part-time Lecturer; Chemistry Department

Responsibilities Lecturing in Chemistry, Setting and marking of exams; Research; Mentoring of students.

1. **Teachers Service Commission**

Jan 1997 to 2009 Employer: Teachers Service Commission

Jan 1997-Aug 1997 School: Nakuru Day Secondary School

Grade: Graduate Teacher 1

Subject: Chemistry and Mathematics

Responsibilities Teaching of chemistry and mathematics; Science club patron; setting and marking of internal examinations; Guidance and counseling; Class teacher; Subject head of chemistry.

August 1997 to April 2004 Nakuru West Secondary School; Grade-graduate Teacher 1

Responsibilities Teaching of chemistry and mathematics; Class teacher; Setting and marking of internal examinations; Head of Examinations Department; Subject head of Chemistry and Science club patron

May 2004 to January 2005 Upper Hill Secondary School

Responsibilities Classroom teacher in chemistry and mathematics; Class teacher; Mathematics club patron; Guiding and counseling; SMASSE (Strengthening of math and sciences in Secondary Schools); Exam maker chemistry paper two

**5.0 ADMINISTRATIVE RESPONSIBILITIES**

1. Head and Lecturer, Physical science department Chemistry, University of Kabianga

DATES: 2009 to 2016 March

Responsibilities

* Management of the Departmental affairs
* Chairing departmental meetings
* Assigning duties to departmental members from time to time
* Appointing of departmental members in various
* Departmental subcommittees
* Lecturing in Chemistry
* Setting and marking of exams
* Carrying out of Research
* Supervision of Graduate and Undergraduate students
* Students’ Mentorship.
* Facilitated as a panelist in the 1st Annual Postgraduate Conference held on 13th&14th December, 2012, held at Kabianga University College

1. Other administrative responsibilities include;

* Member of the Research and Extension Monitoring Committee
* ISO-coordinator and Quaity assurance for the Department-2016 to date
* Appointment for identifying the best research performer at UoK for the research recognition award, 2017.
* Appointment as a member of the University of Kabianga Alcohol and Drugs Abuse committee (2014)
* Served as a member of the Vice Chancelloer’s Appeals Committee member, 2014
* KUC Sacco supervisory committee
* Gender mainstreaming committee principals appeals committee
* Chaired the wardens committee
* Enhancing quality service committee
* Retention of staff committee
* Steering committee for a fully fledged kabianga university
* Member of KUC strategic planning committee
* KUC student welfare committee
* ISO 9001-2008 committee
* Served as a member of the Principal’s Appeals Committee member, 2010
* TRF-KUC collaboration committee member , managed to initiate the MOU

# 6.0 POST GRADUATE SUPERVISION

**MASTERS STUDENTS SUPERVISION**

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| --- | --- | --- |
| 1. | Name of student | **LEONARD BETT TARUS** |
|  | Registration number | **PGC/CHE/004/13** |
| Title of Thesis | Assessment of heavy metals in soils and selected vegetables in Kericho west sub-county, Kenya. |
| Date of completion | 2016 |
| Year of graduation | 2017 |
| Award of degree of certificate | MSC (chemistry) |
| 2. | Name of student | **CHEPTOO CAROLINE** |
| Registration number | **PGC/CHE/002/15** |
| Title of Thesis | Interaction of cadmium and iodine in *Cyperus rotundus* reed salt and selected commercially available table salts- a case of Busia region of Western Kenya |
| Date of completion | 2018 |
| Year of graduation | 2018 |
| Award of degree of certificate | Awaiting defense (to graduate 2018 with MSC Chemistry) |
| 3. | Name of student | **KIPKOECH WELDON** |
| Registration number | **PGC/CHE/006/16** |
| Title of thesis | Retention Efficiency of Mobego/Kabianga Wetland Ecosystem for Residual Chlorinated Pesticides. |
| Date of completion | 2019 |
| Year of graduation | 2019 |
| Award of degree of certificate | Ongoing |

# 7.0 Professional Trainings, Conferences, Workshops and Seminars

# 7.1 Professional Trainings

1. Attended a course on Introduction to ISO-DIS 9001:2015 Quality Management Requirements Course conducted at Agricultural Resourse Center-Nakuru for University of Kabianga Staff from 23rd-25th, June 2015
2. Short Course in Fourier Transform Near Infra-Red Techniques, 25th April 2014
3. Supporting and Fostering University Faculties of Developing Countries at Soongsil University, Seongnam and Seoul, South Korea, 9th-29th, October 2014
4. Training on Instrumentaton for AAS and UV-VIS from 19th-23rd August 2013
5. Research proposal writing training by DAAD, NCST at Kabarak University,25th-27th July, 2012
6. Attended a course on Internal Quality Auditing Based on ISO 19011:2002 Standard facilitated by Alpex Consulting Africa Limited for Kabianga University College held at the University-Kericho on 7th-9th February 2012.
7. Attended a Course for GOWE Kenya Program Business Plan Training held on 30th November – 4th December 2009 at Merica Hotel, Nakuru
8. Sustainable Environmental Management Course No. 6/2003, 29th Sept-3rd Oct. 2003
9. Mathematics and sciences course held at Nakuru High, from 9th –12th April 2001.
10. Kenya Student Christian Fellowship, 22nd –23rd May 2003.
11. In-service training for Secondary Mathematics and Sciences teachers; 5th –16th April 2004.
12. In-service training for secondary Mathematics and Sciences teachers; 24th April- 7th May 2005
13. Training of trainers in science course with SMASSE.
14. Mathematics and sciences course held at Nakuru High, from 9th –12th April 2001.
15. In-service training for Secondary Mathematics and Sciences teachers; 5th –16th April 2004.
16. In-service training for secondary Mathematics and Sciences teachers; 24th April- 7th May 2005
17. Training in Computer Application Packages at Elant College, 2000

# 7.2 Conferences

1. First Pan African International Research Congress on Knowledge Generation and Dissemination (PAIRC-2018), 17-28th June 2018, at Masinde Muliro University Of Science And Technology (Mmust), Kakamega, Kenya, under the Congress Theme: Harnessing Research Output for Sustainable Development; where I presented a paper on “Investigation of the Transformation and Effect of Preparation Method, Storage Conditions and Time on Iodine and Iron (II) Present in the Reed Salt”.
2. Africa Food Security Conference in Nairobi, Kenya; 27th-28th September, 2017.
3. Kenya Chemical Society, 9th Conference held at United States International University-Africa, Auditorium; where I presented a paper on “Heavy Metals, Pb, Cd, Cr and Fe presence in Soils, Plants, Ash, and Salt samples of Western Kenya; 9th - 12th May, 2017.
4. 1st International Scientific Conference at JOOUST; Theme: “Harnessing Science, Technology and Innovation for Sustainable Development and Good Governance”. conference where I presented a paper on “Investigation of the chemical composition of the Kalenjin traditional fermented milk-mursik and its health implications”24th-26th, June 2015.
5. Royal Society of Chemistry-P & G Symposium on Regulatory Harmonisation, Hygiene and Sustainability in Nairobi, Kenya; 5th November, 2015
6. Royal Society of Chemistry-P & G Symposium on Regulatory Harmonisation, Hygiene and Sustainability in Nairobi, Kenya; 5th November, 2014
7. The East and Southern Africa Environmental Chemistry Conference and the Tenth Theoretical Chemistry Conference in AfricaUniversity Of Venda Thohoyandou from 6th To 11th April, 2014, South Africa.
8. Attended the 1st Annual Postgraduate Conference held on 13th&14th December, 2012 at Kabianga University College.
9. The 1st Biannual Forum in Kampala, Uganda, 9th-13th Oct, 2011, on Responding to the Development Needs of the East African Region; presented a paper on Mineral composition of plant and soil based Indigenous salts from selected regions of Western Kenya, presented in Kampala during the 1st Biannual Forum on Responding to the Development Needs of the East African Region.

# 7.3 Workshops and Seminars

1. Plagiarism Detection Training at University of Kabianga on 5th February, 2018, in Computer Science Laboratory, by Turnitin.
2. Curriculum development, review and implementation workshop for the 10 curricula for the Department of Physical Sciences, at Tea Research Institute – Kericho; 8th-12th June, 2015
3. Stakeholders Workshop on Curricum Development for the Programmes of University of Kabianga organized by the School of Science and Technology at Tea Research Institute – Kericho; 24th-26th June, 2014
4. Gender mainstreaming workshop at Kabianga University College, 17th December, 2012
5. Publications writing workshop, Mwanza, Tanziania, 8th-11th Aug., 2012
6. Attended the Intellectual Property Rights Workshop facilited by KIPI, KEPHIS and KECOBO on 22nd and 23rd March 2012 at Kabianga University College.
7. ISO Certification Workshop by ALPEX consultants, 7th-9th Feb., 2012,Kabianga University College
8. National Council for Science and Technology log frame development workshop, 29th-30th October, 2011
9. Kabianga University College Examinations Workshop, 28th Oct, 2011
10. Gender mainstreaming workshop at Kabianga University College,27th June 2011
11. Corruption/Fraud Risk Management workshop at Kabianga University College, 2011
12. Induction Workshop on University Administrative and Examination Procedures held on 12th June, 2010 at NSPSI, Kericho
13. National Environmenal Tribunal Awareness campaign workshop held at Stem Hotel, Nakuru, 12th-14th March,2004
14. Disability Mainstreaming Sensitization workshop on Persons with Disability Act 2003, on 24th May 2011 at Kabianga University College
15. Workshop on strategic plan for environment and development in the Nakuru Region, 12th-133th Sept, 2001, Nakuru.
16. Workshop on strategic plan for environment and development in the Nakuru region, 12th –13th September 2001 at Kunste Hotel, Nakuru.

# 8.0 RESEARCH AND PUBLICATION

**8.1 LOCAL JOURNAL**

1. Mavura, W. J. and **Wangila, P. T. (2003)**. The pollution Status of Lake Nakuru, Kenya. Heavy Metals and Pesticide Residues. African journal of Aquatic Science Vol. 27 (1), 91-96
2. **Wangila, T. P.**  (2017). Phytochemical Analysis and Antimicrobial Activities of *Cyperus rotundus* and *Typha latifolia* Reeds Plants from Lugari Region of Western Kenya. Pharmaceutical Analytical Chemistry,3:3 2471-2698
3. **Wangila Tsikhungu Phanice**, Kinyanjui Thomas, Nakhone Lenah N. (2016). Concentration of I2, Na, K, Mg and Fe2+ in soils, Plants, Ash and Salt Samples of selected areas of Western Kenya. International Journal of Science and Research, Vol.5, No. 4.
4. **Wangila Tsikhungu Phanice**, Tsimbiri Pamella, Peter Nyongesa, Nakhone Lenah, Kinyanjui Thomas, Mule Shadrack (2015). Micronutrients I2, Fe2+, Mg, K and Na concentration in *Typha Latifolia* and *Cyperus papyrus* reed salts of Busia and Lugari regions of Western Kenya. *International Journal of Science and Research, ijsr*. vol. 4 No. 1, Jan 2015.
5. **Wangila Tsikhungu Phanice,** Pamella, T., & Sang, C. (2014). Occurrence of heavy and trace metals in traditionally fermented milk consumed in Narok and Kericho regions of South Rift in Kenya. *Open Science Repository Chemistry*, Online (open-access), e23050483. doi:10.7392/openaccess.23050483
6. **Wangila Tsikhungu Phanice,** Tsimbiri Pamella, Peter Nyongesa. The effect of *OleaAfrikana* (emitiot) and *Cassia didymobotrya* (senetwet) and aging period, on the level of heavy metal residues in fermented milk– A case of Kabianga Division; *Journal of Food Science and Quality Management.* ISSN 2224-6088 (Paper) ISSN 2225-0557 (Online); Vol.34, 2014 IISTE
7. **Wangila P.,** Tsimbiri P., Nyongesa P. (2014). Determination of selected heavy metals and iron concentration in local brews consumed in Kericho and Bomet counties in south rift, Kenya. Asian Academic Research Journal of Multidisciplinary,
8. Njoroge K. F., Chepkwony P., Tibbs C.and **Wangila P**. **(**2011). Media Coverage on Climate Change: Kenyan Scenario J. agric. pure appl. sci. technol. **7**, 9-24 (2011); received February 10/April 26,

**9.0 NETWORKING, COLLABORATIONS and GRANTS**

1. Managed to write a proposal that attracted funding for NCST projects for women scientists in 2011 for Kabianga University College. A research on Mursik.
2. Tea Reaserch Foundation of Kenya collaborative meeting with Kabianga University College, 2011.

**10.0 AFFILIATIONS**

1. Member of the Organization for Women in Science for the Developing world (OWSD); member IS: 5121
2. Royal Society of Chemistry; No. 559959
3. Kenya Chemical Society

# 12.0 COMMUNITY SERVICE

Involved in the following activities;

* Commissioned to introduce a new pastor in his worship church, 2016
* Appointed Deputy returning Officer for coordination of the 2018/2019 students general elections.
* Member of Personnel committee of Friends Quaker Churchfrom 1st November 2014 to date
* Mentorship of girls (13-24 years) both in and out of Quaker Church
* Involved in disciplinary matters of Quaker Church
* Egerton University Alumni Committee member

# 12.0 SKILLS AND KNOWLEDGE ACQUIRED

1. Management and Administrative work of staff and student while working as Head of Department

# Management of research funds

# Planning, designing, execution and supervisinglaboratory and field experiments*.*

# Preparation, extraction and chemical analysis of environmental and food samples using various analytical methods and techniques

1. Teaching and evaluation of course content in chemistry
2. Writing papers for research grants
3. ISO Auditing
4. Management of research grant given by NACOSTI Kenya, as a principal investigator
5. Development of curricula for science based courses and programmes

# ANALYTICAL TECHNIQUES AND INSTRUMENTATION

1. Use of an FT-IR equipment
2. Use of UV-VIS spectroscopy
3. Use of XRD equipment
4. Use of Gas Chromatography(GC) - determination of Organochlorine pesticide residues in wastewater
5. Use of Atomic Absorption Spectroscopic (AAS) methods in determination of heavy metals
6. Use of Flourimetric method -fluoride analysis of drinking water
7. Use of Titrimetric methods -analysis of non-metals eg. Iodine

**PERSONAL ASSESSMENT:**

* I am a team player with strong interpersonal and analytical skills.
* Ability to work in a highly competitive environment.
* Multi-tasking and ability to work in unfamiliar environment.
* I am a fast learner and always open to criticisms and new ideas.
* Very creative and innovative
* Confident and committed to my work

**PERSONAL INTERESTS.**

* Working in an academic research oriented organization/institution with challenging experiences in chemistry.
* To attain the highest academic qualification or degree on the land.
* Carrying out research studies on environmental matters in an attempt to ensure good working environment.
* Carry out research in OHS and Environmental issues to improve living and working life.
* Carry out trainings to equip participants in Occupational Health and Safety and Environmental matters.

**REFEREES.**

1. Prof. Lenah Nakhone

Egerton University

P.O.Box 536

**NJORO.**

1. Prof. Maurice O. Udoto

Egerton University

P.O. Box 536

**NJORO.**

1. Prof. Morris Oduor

University of Kabianga

P.O. Box 2030

**KERICHO**