



**UNIVERSITY OF NAIROBI
COLLEGE OF BIOLOGICAL AND PHYSICAL SCIENCES
SCHOOL OF PHYSICAL SCIENCES**

DEPARTMENT OF CHEMISTRY

2008/09 Academic Year

ANNUAL REPORT

DEPARTMENT OF CHEMISTRY ANNUAL REPORT

1.1 INTRODUCTION

The 2008/2009 Academic year went through successfully.

The Department continued to teach its degree programs and to offer service courses to the College of Health Sciences (Pharmacy), College of Architecture and Engineering and College of Agriculture and Veterinary Sciences.

The Department of Chemistry at Kenya Science Campus is fully operational and the students are moving into their third year of study.

To enhance its income generation activities the Detergent Unit of the Department of Chemistry is currently supplying multi-purpose detergent to the various units within the University. The Department has also commenced module II evening programs at both the undergraduate and post-graduate levels. The postgraduate students have already completed their second semester and are to proceed to the second year of study.

In response to the market forces the Department has revised the course content of the degree programs offered in addition to developing new postgraduate and undergraduate degree programs. The new programs are in Analytical Chemistry and Environmental Chemistry. Pure chemistry and Industrial chemistry programs were reviewed. The post-graduate programs being developed include M.Sc in Analytical Chemistry, Inorganic Chemistry, Physical Chemistry and Organic Chemistry. The traditional M.Sc. in Environmental Chemistry and M.Sc. Chemistry programs are being reviewed to include courses which are responsive to the market needs.

1.2 ACADEMIC STAFF NUMBER AND THEIR DESIGNATION

Professors	6
Associate Professors	6
Senior Lecturers	8
Lecturers	15
Tutorial Fellow	4

Assistant Lecture	1
TOTAL	40

2.0 STAFF APPOINTMENTS, PROMOTIONS

2.1 NEWLY APPOINTED/RECRUITED ACADEMIC STAFF

NAME	GENDER	TITLE
Dr. Patricia Gitari	F	Lecturer
Dr. Peterson Guto	M	Lecturer
Dr. Benson Wamalwa	M	Lecturer
Dr. Austin Aluoch	M	Lecturer
Dr. Martin N. Mbugua	M	Lecturer
Dr. Immaculate Michira	F	Lecturer
Mr. Njagi Njomo	M	Tutorial Fellow
Ms. Beth Ndunda	F	Tutorial Fellow

2.2 STAFF PROMOTED

NAME	GENDER	PREVIOUS TITLE	PRESENT TITLE
Mr. Vincent O. Madadi	M	Graduate Assistant	Tutorial Fellow

2.3 STAFF RETIRED, ON LEAVE OF ABSENCE, TERMINATED, DECEASED

NAME	GENDER	TITLE	STATUS
Prof A.H.S. El-Busaidy	M	Ass. Prof.	Retired
Dr. E. Kituyi	M	Snr. Lecturer	Sabbatical leave
Dr. Simon Karuu	M	Snr. Lecturer	Deceased
Dr. Wenwa A. Odinga	F	Snr. Lecturer	Leave of absence

3.0 ACADEMIC PROGRAMMES

Undergraduate Programmes

B.Sc. Industrial Chemistry

B.Sc Chemistry

Postgraduate Programmes

M.Sc. in Chemistry

M.Sc. in Environmental Chemistry

5.0 NUMBER OF STUDENTS ADMITTED INTO EACH UNDERGRADUATE PROGRAMME

PROGRAMME	NUMBER
BSc.	575
BSc –Industrial Chemistry I	112

6.0 NUMBER OF STUDENTS ADMITTED INTO EACH POSTGRADUATE PROGRAMME

PROGRAMME	NUMBER
M.Sc.	14

Ph.D.	10
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7. NUMBER OF STUDENTS WHO GRADUATED FROM EACH PROGRAM

Ph.D.	0
M.Sc	5
B.Sc Industrial chemistry	18

8. NUMBER OF STUDENTS DISCONTINUED ON ACADEMIC GROUNDS

BSc	0
MSc	0

9.0 ONGOING RESEARCH PROJECTS IN CBPS

9.1 Undergraduate research projects

NAME	TITLE	SUPERVISORS
Kyanui K. Daniel	Bohehole water analysis in some selected sites at Syokimau Estate in Athi-River Division	Dr. Yusuf A.O.
Otieno Elvis Juma	Lead, Cadmium, Arsenic and Chromium along Ngong River and Treatment Methods	Dr. F. Oduor
Ooko George Odera	Investigation of Lead and Cadmium Concentrations in Nairobi River and Adsorption Properties of Fish Bone.	Dr. F. Oduor
Gachucha P. Ndiritu	Extraction and characterization of vernonia galamensis oil from vernonia galamensis seeds Solid-phase peptide synthesis of a glucagons analogue using F-moc synthetic protocol	Dr. Yusuf A.O.

Wekulo Chrispinus	Water analysis of some selected boheholes in Matungu Division, Butere-Mumias District	Dr. Yusuf A.O.
Judith Ogolla	Extraction and characterization of vernonia galamensis oil from vernonia galamensis seeds	Dr. Yusuf A.O.
Faith Katungemwania	Phytochemical investigation of the seed pods of <i>Tephrosia aequilata</i>	Prof. Abiy Yenesew
Karani L. Christopher	Phytochemical investigation of the roots of <i>Erythrina abyssinica</i>	Prof. Abiy Yenesew
Wilson K. Tonkei	Further investigation of the roots of <i>Bulbine frutescens</i>	Prof. Abiy Yenesew
Carolyn Chepkirui	Acetylation as a tool to isolate and identify unstable bioactive compounds from <i>Erythrina</i> species	Prof. Abiy Yenesew
Veronica Osoro	Antiplasmodial phenylanthraquinones from the stem bark of <i>Kniphofia foliosa</i>	Prof. Abiy Yenesew
Nelson Rono Kipng'etich	Analysis of the roots and leaves of <i>Pentas longiflora</i> for antimicrobial compounds	Prof. Abiy Yenesew
Joshua E. Emuruon	Diterpenes and Flavonoids of <i>Psiadia punctulata</i> as potential analgesic agents	Prof. Abiy Yenesew
Nsauti Aisha Bakari	Quinones from <i>Bulbine frutescens</i> and <i>Bulbine capitata</i> as antiplasmodial agents	Prof. Abiy Yenesew
Flora Wambuui Kimani	Larvicidal rotenoids from the stem bark of <i>Millettia usaramensis</i>	Prof. Abiy Yenesew
Mbogo Martin M.	Antiplasmodial activity of compounds from <i>Tephrosia aequilata</i>	Prof. Abiy Yenesew
Kariuki Stephen Ndungo	Antidiabetic compounds from <i>Lannea schimperi</i> roots	Prof. Abiy Yenesew
Manani N. Geoffrey	Antiplasmodial activity of compounds from <i>Erythrina abyssinica</i>	Prof. Abiy Yenesew

9.2 Ongoing Postgraduate research projects (M.Sc)

NAME	TITLE	SUPERVISORS
Ms. Elizabeth Ndunda	Study of polychlorinated biphenyls in sediments and water from Nairobi River	Prof Wandiga S.O. Prof. Shiundu P.M.
Ms. Doris Situma	Analysis of polycyclic aromatic hydrocarbons in ambient air and soils at	Prof. Shem O. Wandiga Prof. Paul M. Shiundu

	selected sites within Nairobi City	
Rose Chiteva	Phytochemical investigation of resins from <i>Commiphora Holtziana</i> in Kenya	PROF. A. Yenesew DR. J.M. Wanjohi Dr. Chikamai
Mr. Isaac Chogii	Potential of synthetically modified surface exudates flavonoids as anti-plasmodial and anti-oxidant principals	Prof. J.O. Midiwo Dr. J.M. Mwaniki
Mr. Kiratu Mburu	Spectrochemical characterization of 2,2,5,5-tetramethyl-3-imidazolidin-1-oxyl nitroxyl free radical ligand	Prof. P.M. Shiundu Dr. J. Onyari
Ms. Meron Gebru	Phytochemical investigation of <i>Rhamnus Prinoidea</i> and <i>Kniphofia Foliosa</i> for antiplasmodial activity	Prof. A. Yenesew Dr. Martin N. Mbugua Dr. Solomon Derese
Mr. M. Cheloti	Phytochemical investigation of some <i>Aloe</i> species of Kenya for anti-plasmodial and anti-microbial activities	Prof. A. Yenesew Dr. J.M. Wanjohi
Mr. Herbert Wanjala Kavunja	Properties and performance testing of biodiesel from <i>Jatropha curcas</i> and its blends	Prof. Abiy Yenesew Prof. J .O. Midiwo Dr. Solomon Derese
Mr. Nicholus Mwendu		Prof. J.O. Midiwo Prof. Abiy Yenesew
Ms. Florence Masese	The investigation and development of monitoring protocol of some pollutants in the Nairobi River basin	Prof. S.O. Wandiga Prof. I.O. Jumba
Mr. Emmanuel C. Ngeywo	Investigating the impact of improved cookstoves in Kenyan schools on PM ₁₀ , CO, CO ₂ , CH ₄ and N ₂ O levels	Dr. Evans Kituyi Dr. J.P. Kithinji
Mr. Caroline Agoi	Dye adsorption characteristics by two unmodified lignocellulosic biomass materials in batch and fixed bed systems	Prof. Shiundu P.M. Dr. Onyari J.M.
Mr. Nicholas Mwenda	Assessment of pesticide residues in cow milk, water and cow blood from Nairobi West region	Prof. P.M. Shiundu Prof. S.O. Wandiga Dr. Mbaabu Mathiu
Immaculate Achieng'	Phytochemical investigation of <i>kniphofia thomsonii</i> for	Prof. abiy Yenesew Prof. J .O. midiwo

	antiprotozoal compounds	Dr. solomon derese
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9.2 Ongoing Postgraduate research projects (Ph.D)

NAME	TITLE	SUPERVISORS
Madadi O. Vincent	Studies of pesticide and macronutrient interaction dynamics in water-sediment/soil systems	Prof. Shem O. Wandiga Prof. Paul M. Shiundu
Leonidah Kerubo Omosa	Chemical investigation of dodonaeae angustifolia and senecio roseiflorulus for their bioactive principles	Prof Midiwo J.O. Prof. Abiy Yenesew
Godfrey A. Wafula	A Study of atmospheric fine particulate matter and their toxic components in Nairobi and its environs	Prof. Shem O. Wandiga Prof. Paul M. Shiundu
Nineza Claire	Modified electrodes in the study of selected pharmaceutical drugs	Prof. D. Orata Dr. A.O. Yusuf
D.A Abong'o	Risk Assessment of Pesticide Residue Levels in Drainage to Lake Victoria: A case Study of River Nyando Drainage Basin of Winam Gulf in Kenya.	Prof. S.O. Wandiga Prof. I.O. Jumba
C.W. Mirikau		Prof. G.N. Kamau Prof. I.O. Jumba

Wabomba J. N	Kinetics of copper adsorption on a micaceous mineral of kenyan origin	Prof. P.M. Shiundu Dr. J. Onyari
Naziriwo Betty Bbosa	Interaction of trace metals with natural particles and their influence on phytoplankton production in waters of lake victoria	Prof. Shem O. Wandiga Prof. John P. M. L. Ssebuwufu
Mrs. Marina Mukabi		Prof. D. Orata Dr. A. Ochieng'
Ms. Joyce G. Njagi-Kithure	Distribution of diazinon and chlorpyrifos in selected aquatic matrices from the upper Tana River in Kenya	Prof. S.O. Wandiga Prof. I.O. Jumba

10.0 LIST OF RESEARCH PUBLICATIONS

1. G. Bringmann, Joan Mutanya-Comar, Katija Maksimenka, J.M. Wanjohi, M. Heydenreich, Reto, Brun, Werner E. G. Muller, M.G. Peter, J.O. Midiwo, **A. Yenesew**. Joziknipholones A and B: The first dimmeric Phenylanthraquinones, from the roots of *Bulbine frutescence*. (2008) Chemistry, a European Journal, 14, 1420-1429.
2. Muiva, L.M. **Yenesew, A.**, Derese, S., Heydenreich, M., Peter, M.G., Akala, H.M., F. Eyase, Waters, N.C., Mutai, C., Keriko, J.M., Walsh, D. (2009). Antiplasmodial β -hydroxydihydrochalcone from seedpods of *Tephrosia elata*. Phytochemistry Letters 2, 99-102.
3. **Yenesew, A.**, Twinomuhwezi, H., Kiremire, B.T., Mbugua, M.N., Gitu, P.M., Heydenreich M., Peter M.G. (2009). 8-Methoxyneorautenol and Radical Scavenging flavonoids from *Erythrina abyssinica*. Bull. Chem. Soc. Ethiopia 23, 205-210.
4. **Yenesew, A.**, Twinomuhwezi, H., Kabaruu, J.M., Kiremire, B.T., Akala, H.M., Heydenreich M., Peter M.G., F. Eyase, Waters, N.C., Walsh, D. Antiplasmodial and larvicidal activities of flavonoids of *Derris trifoliata*. Bull. Chem. Soc. Ethiopia 23, 409-414.
5. Volodymyr Samoylenko, Melissa R. Jacob, Shabana I. Khan, Jianping Zhao, Babu L. Tekwani, Jacob O Midiwo, Larry A. Walker and Ilias Muhammad(2009) Anti-microbial, Antiparasitic, and Cytotoxic Spermene Alkaloids from *Albizia schimperiana*. Natural Products Communications. 4 (6) 791-796.

6. Onyari J M, Mulaa F, Muia J and Shiundu P (2008), Biodegradability of PLA, Preparation and Properties of PLA/Gum Blends, *Journal of Polymers and the Environment* **16**, 205-212
7. Wandiga S. O. and V.O. Madadi (2009) Water quality issues in East Africa. In *Handbook of water purity and Quality*. 1st Ed. Satinder Ahuja. Academic Press Elsevier. Int. ISBN. 978- 01-12-374192-9. Pg. 39-65.
8. Enos W. Wambu, Gerald K. Muthakia, **Paul M. Shiundu** and Joseph K. wa-Thiong'o, "Kinetics of Copper Desorption from Regenerated Spent Bleaching Earth"; *American-Eurasian Journal of Scientific Research*, **4(4)**, 317-323, (2009).
9. Enos W. Wambu, Gerald K. Muthakia, Joseph K. wa-Thiong'o and **Paul M. Shiundu**, "Regeneration of Spent Bleaching Earth and its Adsorption of Copper (II) ions from Aqueous Solutions"; *Applied Clay Science*, **46**, 176-180, (2009).
10. John M. Onyari, Francis Mulaa, Joshua Muia, **Paul M. Shiundu**, "Biodegradability of Poly (lactic acid), Preparation and Characterization of PLA/Gum Arabic Blends"; *Journal of Polymers and the Environment*, **16 (3)**, 205 – 212 (2008).

11.0 WORKSHOPS AND CONFERENCES ATTENDED

1. Yusuf A.O. and Kitoma Francis " Synthesis of biodiesel from Nile perch oil and methanol"-Presented at the AGM of The Kenya Chemical Society (Nairobi Chapter), held at Kenyatta University on 30th August, **2008**.
2. Yusuf A.O., Bhatt B.M. and Gitu P.M. " Use of 1-tetralinyl group as asparagines carboxamide protecting and its use in the solid-phase peptide synthesis of oxytocin- Presented at the Workshop and Seminar of The Kenya Chemical Society (Nairobi Chapter), held at School of Physical Sciences, University of Nairobi on 25th April, **2009**.
3. Abiy Yenesew. Bioactive Isoflavonoids from Kenyan *Erythrina* species. 1st Joint IOCD- ISDNP International Symposium on Natural Products, 25-29 February, 2008, Kasane, Botswana.
4. Abiy Yenesew. Phenylanthraquinones: linking Africans to German universities. 17th November, 2008. Department of Chemistry, University of Wurzburg, Germany Seminar,
5. Midiwo J.O., Abiy Y., Solomon D. The search for anti-malarial principles from Keyan plants. The first joint IOCD-ISDNP International Symposium on Natural Products. Mowana Safari Lodge, Kasane, Botswana, Feb 25-29 2008.
6. Onyari JM was invited as Discussant (Topic assigned: Geothermal power) to Kenya Energy Conference held 7-9 October 2008 at Kenyatta International Conference Centre, Nairobi, Kenya.
7. Samuel K. Mwilu, **Austin O. Aluoch**, Seth Miller, Paula Wong & Omowunmi A. Sadik*, (2009) Identification and Quantitation of *Bacillus globigii* using Metal Enhanced Electrochemical Detection and Capillary Biosensor, *Analytical Chemistry, Accepted manuscript* [ID: ac-2009-00834e.R1](2009)
8. Omowunmi A. Sadik, Samuel K. Mwilu, **Austin O. Aluoch** (available online 19 March 2009) Smart electrochemical biosensors: from advanced materials to ultrasensitive devices. *Electrochimica Acta*, In Press, Accepted Manuscript
9. Omowunmi A. Sadik, **Austin O Aluoch**, Ailing Zhou; Status of biomolecular recognition using electrochemical techniques. *Biosensors and Bioelectronics*, In Press, Corrected Proof (Available online 21 October 2008)
10. Vincent Madadi. Pan Africa Chemistry Network Inaugural Conference on Biodiversity. University of Nairobi, Chiromo Campus 10th –12th September 2008.

11. Vincent Madadi. Workshop to develop National Action Plan on Sound Management of Pesticides in Kenya, 2nd -6th February 2009, Garden Hotel, Machakos.
12. Vincent Madadi. Global coordination workshop for the implementation of the Global monitoring plans on Persistent Organic pollutants. Workshop to draft the Global monitoring report for the first effectiveness evaluation of POPs.
13. Vincent Madadi. Chemical Information Exchange Network (CIEN) training workshop to 1) introduce the CIEN project and its linkage with the POPRC and other GMP related work, 2) discuss country priorities and needs for information exchange, 3) introduce project activities in collecting and gathering national data for the sound management of chemicals and 4) agree on road map for the project implementation. 15th –23rd October 2008, Nairobi, Kenya.
14. Vincent Madadi. Satellite workshop, “the Relevance of Chemistry in a Global Society”, 11-12 August 2008. Trained on the application of micro scale experiments in advancing the teaching of chemistry.
15. **Vincent Madadi.** Regional organization group workshop for drafting the Africa POPs Monitoring report for Africa Region for consideration at the 4th COP in May 2009.
16. S. O. Wandiga. Water, Water Everywhere and not a Drop to Drink. Paper presented at the Pan Africa Chemistry Network (PACN) Biodiversity Conference, University of Nairobi, 10-13th September, 2008. Kenya
17. Shem O. Wandiga. Promoting merit based academy in Ethiopia. Keynote Address at the National Conference on the Establishment of Ethiopian Academy of Sciences, United Nations Conference Center (ECA), February 13, 2009
18. Shem O Wandiga. Rivers in jeopardy and the need for river restoration. Plenary Lecture at the International Sustainable water Conference, July 25-28, 2009 held at University of Nairobi, Kenya.

12.0 RESEARCH THESIS TITLES

12.0.1 Ph.D. Thesis Titles

NAME	TITLE
Joseph Kipkosgei Lelon	Effect of micronutrients uptake by <i>acacia senegal</i> varieties on gum arabic quality under arid and semi-arid conditions
Salome Guchu	Studies on <i>desmodium</i> species for the allelochemicals involved in <i>striga</i> suppression

Muigai Peter Gitita	Extent of eutrophication of nairobi dam, kenya, and possible implications of the surrounding environment
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12.0.2 M.Sc Thesis Titles

John Ndathe	A study of the uptake of selected heavy metal ions and trichloro ethylene (tce) by sweet potato varieties in kenya
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16. OUTREACH AND COMMUNITY SERVICE ACTIVITIES

1. Prof. G.N. Kamau: External examiner JKUAT
2. Prof. J.O. Midiwo: NAPRECA executive secretar;, External examiner, Maseno
3. Prof. J.O. Midiwo:
4. Prof. P.M. Shiundu: External examiner University of KwaZulu Natal , Kenyatta University, JKUAT, University of Pretoria
5. Prof. Abiy Yenesew: External examiner University of KwaZulu Natal , Kenyatta University, Maseno University, University of Botswana, University of Dar-es-Salaam; Journal of Bulletin of Chemical Society of Ethiopia Referee
6. Dr. D.K. Kariuki: KEBS Water Quality committee; NEMA Hazardous and Toxic Materials committee; WRMA Threshold Pollution in Waste Water Committee.
7. Dr. B.M. Wamalwa: Board member of Japan Government scholarships; External examiner KEMRI;
8. Prof. Wandiga S.O.: Chairman Bondo University Council; Kenyatta University Senate member; Nairobi River Basin Project coordinator; Pan African Chemistry Network Chairman; UNEP/GEF-UoN Project coordinator
9. Dr. A.O. Yusuf: External examiner JKUAT, Egerton University, Kenyatta University; Mt. Sinai C.M.I. School PTA executive committee member; IDB Selection Committee Board Member.
10. Dr. Solomon Derese: Climbed Mt. Kenya with UoN Rovers Club
11. Prof. D. Orata: External examiner Maseno University, JKUAT

17. NEWLY ESTABLISHED LINKAGES

The Department has links with the following institutions:

1. Green Africa Foundation in Biodiesel research
2. UNEP Chemicals and University of Nairobi (Chemistry) Project in monitoring of POPs in Eastern and Southern and Southern African Region
3. Nairobi River Basin Project for small scale funding agreement
4. Accreditation to carry out studies on physical chemical properties of pest control products for registration purposes
5. Africa Knowledge Transfer Partnership (AKTP)- British Council

18. RESEARCH EQUIPMENT PURCHASED

The Department purchased the following pieces of equipment:

1. Water Testing meter-Turbidity, colour and chlorine
2. pH/Conductivity meter
3. Dissolved Oxygen meter

19. STAFF IN DEPARTMENT OF CHEMISTRY

NAME	DESIGNATION
Prof. S.O. Wandiga	Professor
Prof R. Munavu	Professor
Prof I.O. Jumba	Professor
Prof G. Kamau	Professor
Prof. J.O. Midiwo	Professor
Prof. P.M. Gitu	Professor
Prof. Duke O. Orata	Associate Professor
Prof D.N. Kariuki	Associate Professor
Prof Abiy Yenesew	Associate Professor
Prof B. Bhatt	Associate Professor
Prof Lydiah .W. Njenga	Associate Professor

Prof M. Shiundu	Associate Professor
Dr. J.P. Kithinji	Snr Lecturer
Dr. Helen N. Njenga	Snr Lecturer
Dr. J.M. Onyari	Snr Lecturer
Dr. A.O. Yusuf	Snr Lecturer
Dr. E. Kituyi	Snr Lecturer
Dr. W.A. odinga	Snr Lecturer
Dr. D.K. Kariuki	Snr Lecturer
Dr. J.M. Mwaniki	Snr Lecturer
Mr. C. Mirikau	Lecturer
Dr.F.O. Oduor	Lecturer
Dr. Patricia Gitari	Lecturer
Dr.M.N. Mbugua	Lecturer
Dr. Austin Aluoch	Lecturer
Mr. J.M. Makopa	Lecturer
Mr. Godfrey A. Wafula	Lecturer
Dr. B.M. Wamalwa	Lecturer
I.N. Michira	Lecturer
Dr. P. Guto	Lecturer
Dr. J.M. Wanjohi	Lecturer
Dr. L. Kerubo	Lecturer
Dr. D.W. Mbui	Lecturer
Dr. S. Derese	Lecturer
Dr. J. Ndakala	Lecturer
Mr. Njagi Njomo	Tutorial Fellow
Ms. Beth Ndunda	Tutorial Fellow
Mr. J.N. Wabomba	Tutorial Fellow
Mr. Vincent O. Madadi	Tutorial Fellow
Mrs. Marina Mukabi	Assistant Lecturer
Mr. J. M. Ng'ang'a	Principal Technologist
Ms. A. Muia	Chief Technologist
Mr. J.S. Amani	Snr. Technologist

Mr. G.K. Katiku	Snr. Technologist
Mr. Peter K. Njoroge	Snr. Technologist
Mr. Frank Waiharo	Snr. Technologist
Ms. R. Mutungi	Snr. Technologist
Ms. F. Wainaina	Snr. Technologist
Mr. E. Kimega	Snr. Technologist
Ms. V. Muinde	Snr. Technologist
Mr. E. Mwangi	Snr. Technologist
Mr. G. K. Kaptich	Technologist
Ms. E.N. Kamau	Technologist
Ms. M. Nyuthe	Technologist
A. O. Mitema	Technologist
Mr. E.F. Odanga	Technologist
Ms. A.W. Ndekei	Technologist
Mr. W. Orangi	Technologist
Ms. M. Checha	Technologist
Mr. P. Lekimain	Trainee Technologist
Mr. E. Terer	Trainee Technologist
Mr. S. Shilamala	Documentalist
Mr. F.K. Ndule	Lab Attendant
Ms. Nginyo Catherine	Lab Attendant
Mrs. Jane N. Gachungi	Secretary
Mrs. Elizabeth Juma	Secretary
Mrs B.U.S. Akundabweni	Snr Admin. Ass.