

CURRICULUM VITAE**Mission: Educator/Administrator/Laboratory trainer, Chemical Safety and Security trainer/ Environmentalist/Entrepreneur/ Energy/Consultant****I. BIODATA**

Name: Geoffrey Njuguna Kamau Passport number: C021361
 Date of Birth: June 6, 1954 (Official)
 Nationality: Kenyan
 Marital Status: Married
Employment: Professor, Department of Chemistry,
Status: University of Nairobi

II. Academic Qualifications:**a) Pre-University Education:**

| <i>School/College Attended</i> | <i>Period</i> | <i>Certificate</i> |
|--|---------------|--------------------|
| Ngong Forest Primary School | 1962-1969 | K.P.E. |
| Dagoretti High School | 1970-1973 | E.A.C.E. |
| Kenya Science teachers College (KSTC) | 1974-1976 | Dip. Ed. |

b) University Education:

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| University of Nairobi | 1977- 1980 | B.Sc. (First Class Honors) |
| University of Connecticut | 1982-1986 | Ph.D. |

c) Courses undertaken:

- (i) Pre-university College: Chemistry, Math and Education (High School Teacher)
 (ii) Undergraduate: Analytical, Inorganic, organic and Physical Chemistry
 (iii) Graduate School: Chemistry: Analytical, inorganic, organic and physical chemistry courses. **Ph.D. thesis in analytical chemistry**

III. Experience: From/To**June 5, 2001/ Present****Professor of Chemistry****October 18, 2012****ALMA Distinguished Service Award** for Laboratory Management 2012, Sponsored by Agilent Technologies, U.S.A.**August 2001/Present Executive Secretary/Chairman:** East and Southern Africa

Laboratory Managers Association (E-SALAMA). Founder and Chairman of Theoretical Chemistry in Africa (TCA) and East and Southern Africa Environmental Chemistry (ESAEC) forum.

2013 January: Fellow, Kenya National Academy of Sciences

October 2010 to February 2013 Member, Nuclear Electricity Project Committee

(NEPC) and chairman of Audit subcommittee: Term expired in 2013

January 03, 2006/Jan. 03, 2009 Director, Board of Postgraduate studies, UON

January 13, 2003/Feb. 16, 2006 Coordinator, Self study Centre, University of Nairobi

2014, June-July

Collaborative research visit/Rowan University, New Jersey, U.S.A,

2013, May-June

Drug electrochemistry.
Collaborative research visit/University of Connecticut, U.S:
Nano chemistry project.

2012, May-June

Collaborative research visit/University of Connecticut, U.S:
Nano chemistry project.

2009, June-August

Collaborative research visit/University of Connecticut, U.S:
water quality research project.

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| 2008, May-June | Collaborative research visit/University of Connecticut, U.S: Biosensors for water pollutants project. |
| 2007, May-June | Collaborative research visit/University of Connecticut, U.S: Water Quality project sponsored by Uconn. |
| 2005, May-June | Collaborative research visit/University of Connecticut, U.S: Microemulsion project. |
| March, 2004/Present | NEMA Lead expert |
| May 2003, Present | Chairman, KSTC Alumni and Association of Educators |
| June 1, 1996/Present | Coordinator, Nairobi City Council-University Of Nairobi Industrial waste water effluent monitoring Unit |
| 1994, Dec. 1, / June 5, 2001 | Associate professor, Dept. of Chem., Univ. of Nairobi. |
| 2003, April/June | Collaborative research visit/University of Connecticut, U.S. |
| 2003, October/November | Collaborative research visit/University of Connecticut, U.S: Water Quality project sponsored by ACS-NSF |
| 2002, March/June | Collaborative research visit/University of Connecticut, U.S./NSF sponsored |
| 2002, December | Founder and Executive Secretary of Analytical laboratory Managers Association (ALMAfrica)/East and Southern Africa Laboratory managers Association (E-SALAMA). |
| 1995, August | Founder and Executive Secretary, Theoretical Chemistry in Africa and East and Southern Africa Environmental Chemistry Forum |
| 2001, March 2-23 | Visit to University of Brussels, Belgium: Project on Establishment & Development of self study centre, University of Nairobi |
| 2000, June 12-August 4, | Collaborative research visit/University of Connecticut, U.S. |
| 1999, June 28-August 1, | Research collaboration visit to University of Wits, Structural Chemistry Laboratory, South Africa. |
| 1999; March-April, | Visit to University of Brussels, Belgium: Educational programme to start, Self Study Centre at Chiromo Campus, University of Nairobi. |
| 1998, July 26/August 6 | Educational visit to India |
| 1997, June /August | Research collaboration/University of Connecticut, U.S.A. |
| 1996 April-May | Visiting Professor/University of Zambia |
| 1994, June/September | Visiting faculty/University of Connecticut,U.S.A. |
| December 1992/July 1993 | Sabbatical leave at University of Connecticut, U.S.A. |
| 1991, Jan/February | IAEA/Slovenia nuclear reactor Visit |
| 1991, June /September | Visiting Research Scholar/ University of Connecticut, U.S.A. |
| January –February 1990/ IAEA | Visiting researcher, University of Ljubljana, Nuclear plant, Slovenia |
| 1989 (summer) | Visiting Research Scholar/ University of Connecticut |
| 1990, Jan./1994, Dec. 1 | Senior Lecturer/University of Nairobi |
| 1986, Oct. 15/1989, Dec.3,1990 | Lecturer/University of Nairobi |
| 1985/1986 (Summers) | Lecturer/minority Training Academy/University of Connecticut. |
| 1984/1986 | Research Assistant/University of Connecticut, U.S.A. |
| *1982/1983 | Teaching Assistant/University of Connecticut, U.S.A. |
| 1980/1981 | Laboratory Manager/Sandoz Co., Nairobi, Kenya |
| 1977 | High School Teacher/Alliance High School, Kenya |

iv. Entrepreneurship Experience

1980: Bought a 1 plot at Dandora and another one at Kimbo, Thika road, with an aim of putting up a jua kali (entrepreneur) industry.

1986: Registered a company aimed at producing transformers: started by producing welding Machine.

1988: Registered a textile related industry for manufacturing of detergents and repacking of chemicals: Supplied detergents to East African Fine Spinners and three schools for nearly four years, 1988-1992.

1991: Wrote a proposal to start a small research nuclear power plant in Kenya

1991: Acted as a consultant for a detergent/Soap industry

1998: Visited small scale industries institutes in India and India Institute of chemical Technology for 2 weeks.

2000: Purchased a plot at Mackinon road, Coast Province, aimed at putting a scientific Glass industry.

1998 till now: Have been carrying out a voluntary advise on small scale industry, particularly on detergent/soap and related chemical management and laboratory areas.

Currently: Have a plantation of Tea covering an area of about 3 acres.

IVA. Research Interest

Applications of analytical techniques to applied research; Electroanalytical chemistry; Catalytic reduction of toxic organic halides/POPs/PCBs by metal complexes and dyes; Micellar/microemulsion catalysis, spectroscopic and chromatographic methods for analysis of pesticides, **nanoscience/nanotechnology**, heavy metals pollutants, air particulates/composition/CO, Nox, SO₂ and natural products, specifically, Avocado oil, vernonia oil, chamomilla flowers and Rice Husks; Applied Chemistry with environmental approach: Data Registry of Industrial Chemical Wastes/Chemical Information, waste management and probable prediction of secondary toxic products and pollutants from non toxic industrial wastes. **Radiation and nuclear wastes.** Served as an industrial consultant and disposal of wastes. Laboratory management, Quality control/Safety and Environmental Impact Assessment and dealing with Educational related matters.

IVB. Teaching:

I have been teaching both Analytical, Environmental Science (major) and Inorganic, physical (minor) Chemistry courses ranging from undergraduate to postgraduate levels.

Professional courses, which includes chemical management, Instrument repairs and maintenance/trouble shooting, Testing, Quality Control and Laboratory management.

V. Supervision:

1. Supervised undergraduate final year projects (More than 80)

2. I have supervised successfully over 50 **M.Sc.** students.

Some of the M.Sc. and advanced undergraduate projects were joint ventures with the following industries: East African Portland cement, East African Fine Spinners, Coca Cola Company and Firestone and East African Portland cement.

3. Four Ph.D. students have graduated under my supervision (Dr. A.M. Kinyua, December 1997 and Peter Muigai Gitita, July 2007, Farida Were (2013) and now Tabitha W. has submitted (2014). Moreover, Shadrack Mule is in the process of submitting. Three other Ph.D. and six M.Sc. students are still continuing.

VI. Administration: Undertaking a number of activities within the Department

VII. Other Activities/EXAMINATION

a) External examiner for M.Sc. and Ph.D. chemistry students from other Universities: Uganda, Tanzania, South Africa, Zambia and U.K.

b) External examiner for Six Universities (Undergraduate): Egerton, Moi, KU, JKUAT, Dar es Salaam, Makerere University and Bondo University College.

External Examiner for Ph.D. Thesis: South Africa, India and Tanzania

c) Reviewer of promotion documents/Vetting for senior and Associate Professor positions for Universities of Dar es Salaam, Botswana, Nigeria, Uganda and Kenya.

VIII. Collaboration Projects (A number of Institutions)

IX. Interdepartmental Collaboration (six Departments)

XI. Board of Governors: Two High Schools: Ruthimitu High School, Chairman (2000 to present) and Upper Hill High School: Board member (1997 to present).

XIa. Government Committee: Member of Nuclear electricity project committee and Chairman of Audit subcommittee: November 2010 to present

XII. Journals: Editor and Founder of International Journal of Biochemiphysic, ISSN 1019-7648.

XIII. REVIEWER: Have refereed a number of papers for at least six journals.

XIV. Books/Reports

1. Author of five workshop proceedings. Working on a book/ writing (Chemistry).

XV. GRANTS: Have previously received grants from UNESCO, TWAS, OPCW, ALMA, ACS, IOCD and NSF, Lake Victoria Research project (Vicres), SEANAC and Deans Committee.

XVI. Awards and Honours:

1. University of Nairobi: Award for the best Chemistry student 1979/1980: First Class Honors.
2. University of Connecticut: Best first year Graduate student, 1982/83 Academic year.
3. October 18, 2012 ALMA Distinguished Service Award for Laboratory Management 2012

XVII. Professional Societies:

1. Kenya Chemical Society (**founder member and former vice Chairman**)
2. Kenya National Academy of Sciences (**member of governing Council**)
3. K.S.T.C. Alumina and Association of Educators: **Chairman**
4. **General Secretary** of Theoretical Chemistry and East and Southern Africa environmental Chemistry workshop, 1993-present.
5. **Executive Secretary/Chairman:** East and Southern Africa Laboratory Managers Association (E-SALAMA)

XVIIa. Publications: Have published more than 70 papers

XVIII. Presentation of Papers: Have presented papers in a number of Countries.

XIX. Workshops/Organizer/Courses Attended: A number of workshops/Conferences

- XX. Visiting Professor:** University of Zambia, Department of Chemistry, April-May, 1996.
And University of Witwatersrand, Dept. of Chemistry, July-August 1999), University of Surrey, U.K, University of Gezira, Sudan

XXI. Affiliation:

1. Worked with Directorate of industrial training, special Chemical committee (Ministry of research, technical training and technology): **Chairman, 1996 to 2012**
2. Working with Nairobi City Council on drinking and waste waters from Residential areas and Industries : **Chairman, 1996 to present**
3. Working with Dr. Ron Schulz, University of Surrey, U.K., on Co-operative Education and Extraction of essential oils. Dr. Schulz is now retired and live in Australia.
4. Has been hosting Howard University, Washington D.C., U.S.A., Chemical Engineering students, carrying out research on water quality: Summers of 2011, 2012 and 2013: Local Coordinator

Professional experience:

1. Educator
2. Administrator
3. Laboratory Management
4. Environmental waste Management
5. Environmental Impact Assessment/ Environmental Audit
6. Laboratory Testing
7. Quality Control
8. Analytical Instrument maintenance
9. Water Quality
10. Safety measures
11. University-Industry Co-operation

XXII. Professional Societies (additional):

1. Society of Dyers and Colourists (currently inactive)
2. Phi Lambda Upsilon
3. American Chemical Society (currently inactive)
4. The New York Academy of Sciences (inactive)

5. Eastern Africa Environmental Network (EAEN): Member
6. Kenya National Academy of Sciences: Member of the Council
7. East and Southern Africa Laboratory Managers Association (E-SALAMA)

8. Kenya Chemical Society (KCS), Founder and life member
9. KSTC Alumni and Association of Educators

XXIIa. Organizations: Center of Excellence for Chemical Safety and Security (CECSS): Founder member

XXIII. Publications:

1. Ph.D. Thesis, "Electrocatalysis on highly polished glassy carbon electrodes in homogeneous and micellar media", University of Connecticut, Storrs, CT, 06269, 1986.
2. Michael T. Carter, Geoffrey N. Kamau and James F. Rusling, "Resolution of overlapped current-potential curves for reduction of pyridine carboxylic acid", *J. Electroanal. Chem.*, 17, 1984, 265.
3. Geoffrey N. Kamau, William S. Wills, and James F. Rusling, "Electrochemical and electron spectroscopic studies of highly polished glassy carbon electrodes", *Analytical Chemistry*, 57, 1985, 545.
4. James F. Rusling and Geoffrey N. Kamau, "Electrocatalytic Reactions in organized assemblies part II" *J. Electroanal. Chem.*, 187, 1985, 355.
5. Geoffrey N. Kamau, Thomas Leiper and Shyam S. Shukla and James F. Rusling, "Electrochemistry of Bipyridyl derivatives of cobalt in solutions of anionic and cationic micelles", *J. Electroanal. Chem.*, 233, 1987, 173.
6. Geoffrey N. Kamau and James F. Rusling, "Electrocatalytic reactions in organised assemblies part III. Reduction of allyl halides by bipyridyl derivatives of cobalt in anionic and cationic micelles", *J. Electroanal. Chem.*, 240, 1988, 217.
7. Geoffrey N. Kamau, "Surface preparation of glassy carbon electrodes", *Analytical Chim. Acta*, 207, 1988, 1-16.
8. Geoffrey N. Kamau, Morris Njoroge and Moses Njau, "Determination of fluoride in different toothpaste formulations", *Kenya J. Sciences series A.*, 11 (1), 133 (1998).
9. G. N. Kamau, A.M. Muturi, R.M. Munavu and N.K. Olembo, "Cold solvent extraction and physico-chemical study of Avocado oil," *J. Biochemiphysics*, 2, 75 (1993).
10. Geoffrey N. Kamau and James F. Rusling, "Resolution of Ascorbic-Catechol-amine and Indolalaloid mixtures by pulse voltammetry at highly polished glassy carbon", *Electroanalysis*, 6, 445 (1994).
11. G. N. Kamau, J.K. Mbindyo, Z. P. Githinji, R.J.R. Tuts and A.M. Kinyua, "Rice Husk Ash and its application as a cement replacement material in Kenya," *J. Biochemiphysics*, 2, 132 (1993).
12. Geoffrey N. Kamau and James F. Rusling, "Microelectrode voltammetry of TCNQ in aprotic solvent at low concentrations of non reducing salts", *Electroanal. Chem.*, 292, 1990, 187.
13. Geoffrey N. Kamau, L.W. Kinyanjui, P.A. Thairu and J.C. Matasyoh, "Levels of Mercury in water, fish, sediments and blood samples from different regions of Kenya", *J. Biochemiphysics*, 1, 9 (1991).
15. G.N. Kamau, P.M. Gitu, R.L. Laslet, R.S. Reeve and R.A. Schulz, "Protocol for International Co-operative Education in Developing Countries", proceedings, seventh World Conference on Co-op Education, Hong Kong, 26-30 Aug. 1991.
16. Geoffrey N. Kamau and Z. G. Morang'a and A. F. Nassar "Effect of Coagulation aspects and colour removal from textile wastes", *J. Biochemiphysics*, 3 (1994) 41.
17. Geoffrey N. Kamau, Naifei Hu and James F. Rusling, "Rate enhancement and control in electrochemical catalysis using bicontinuous microemulsion", *Langmuir*, 8, 1992, 1042.
18. Geoffrey N. Kamau, Trevor M. Saccucci, Giv Guonili, Alaa-Eldin F. Nassar and James F. Rusling, "Ferricinium complexes formation at the surface of electrode", *Analytical Chemistry*, 66, 994 (1994).
19. Alaa-Eldin F. Nassar and Geoffrey N. Kamau, "Indirect spectroscopic determination of phosphate", *J. Biochemiphysics*, 3 (1994) 37.
20. Geoffrey N. Kamau and James F. Rusling, "Enhanced rates of organic dehalogenations in a microemulsion using adsorbed metal phthalocyanines on electrodes", *Langmuir*, 12, 2645 (1996).
21. F.D.O. Oduor, A.H.S. El-Busaidy, G.N. Kamau, "Use of roadside soils and vegetation in monitoring motor vehicle lead pollution," Proceedings: Inaugural Conference of the Kenya Chemical Society, Nairobi, June 1993.
22. J.K.N. Mbindyo, G.N. Kamau, A.M. Kinyua and R.J.R. Tuts, "Development of Rice Husk Ash based alternative cements in Kenya", Proceedings: Inaugural conference of the Kenya Chemical Society, Nairobi, June 1993.
23. A.M. Kinyua, P.G. Muigai, G.N. Kamau, "Mercury levels in Lake Naivasha," Proceedings of the KMRI/KETRI annual Medical Scientific Conference, Nairobi, Kenya 1993.

24. P.G. Muigai, G.N. Kamau, and A.M. Kinyua "Analysis of Mercury in Soils around Lake Naivasha," J. Biochemiphysics, 4 (1995) 27.
25. J. Zelina, C.K. Njue and J.F. Rusling, G.N. Kamau, M.M. Masila, E.K. Kibugu, "Influence of surfactant-based microheterogeneous fluids on aggregation of copper phthalocyanine tetrasulfonate", J. porphyrins phthalocyanine 3, 188-195, 1999.
26. J.F. Rusling, S. Schweizer, S. Zhang G.N. Kamau, "Microemulsion as media for destruction of organohalide pollutants by electrolysis.", J. Colloids and Surfaces, 88, (1994) 41-49.
27. T. Kinyanjui, P.M. Gitu and G.N. Kamau, "Potential antitermite compounds from Juniperus Procera Extracts, J. Chemosphere, 41, 1071 (2000).
28. G.N. Kamau, Z. Kithinji, C.N. Warui and Gene Morris, Extraction and spectroscopic Study of avocado oil, J. Biochemiphysics, 6&7, 36 (1998).
29. P. Muigai, A. Kinyua and G. Kamau, Optimization of parameters for study of heavy metals in biological samples, J. Biochemiphysics, 5, 19 (1996).
30. E.M.R. Kiremire, H. Muwowo and G.N. Kamau, "Voltammetric studies of reactions of imidazolide..." , J. Electroanalysis, 10(11), 747 (1998).
31. W.G. Kiflom, S. O. Wandiga, P.K. Ngang'a and G.N. Kamau, "Variation of Plant DDT uptake with age and soil type ...", J. Environment International, 25 (4), (1999).
32. D.L. Nanguri, C.N. Warui and G.N. Kamau, "Spectroscopic Studies and Physical Chemical Properties of Unsaponifiable Matter of Avocado oil," Proceedings, Biochemical Society, Nairobi, Sept. 1996.
33. S. K. Limo, I.O. Jumba and G.N. Kamau, "Variation of Palm Oil Physical Chemical Properties with temperature", Journal of Biochemiphysics, Vol. 11 & 12, 39 (2003)
34. Y.M. Lvov, G.N. Kamau, D. Zhou and J.F. Rusling, Assembly of electroactive ordered multilayer films of cobalt phthalocyanine tetrasulfonate and polycations, J. colloid and Interface Science, 212, 570-575, 1999.
35. B.M.M. Wamalwa, P.M. Shiundu and G.N. Kamau, "Fuel value of Refined vernonia galamensis seed oil" J. Biochemiphysics, 6&7, 33 (1998).
36. E.M.R. Kiremire, H. Muwowo, K. Chibare, J.C.A. Boeyens, J.A. Van Wyk and G.N. Kamau, "The Synthesis and Characterization of Tris-Chelate Complexes of Vanadium (III), Chromium (III) and Manganese (III) containing deprotonated 4-phenacetylidene-2,2,5,5-tetramethylimidazolidin-1-oxyl Nitroxyl free radical ligand, Oriental journal of chemistry, vol. 17 (1), 2001, page 37
37. B. M. Wamalwa, E.N. Njuguna, P.M Shiundu, and G.N. Kamau, "Thermal Stability of Vernonia galamensis seed oil" Bulletin of the Chemical Society of Ethiopia, 2000, 14(2), 161-167.
38. A.M. Kinyua, W.M. Kofi-Tsekpo, F. Tolo, G.N. Kamau, I.O. Jumba, and A.H.S. El-Busaidy, "Essential trace element analysis of traditional medicines used in anticonvulsant therapy," New aspects of trace research Eds: M. Abdulla et al. 1999, UK.
39. S.O. Wandiga, B.T. Yebiyo, J.O. Lala and G.N. Kamau, "Distribution, Fate and Effects of ¹⁴C-DDT in model ecosystem simulating tropical Kenyan fresh water environment", Bull. Environment Contam. Toxicol. Vol. 74, 928-937, 2005.
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41. Padmaja Chaturvedi, G. N. Kamau, R. Cheruiyot, and Y. B. Tripathi, *Hypoglycemic and Hyperglycemic effects of Momordica charantia Fruit extracts*, Journal of BioChemiphysics, Vol.11&12(Nos.1&2) 2003.
42. W.G. Kiflom, S.O. Wandiga, G.N. Kamau, "Status of Organochlorine (DDT) pollutants and steps toward electrocatalytic reductions", Pure Appl. Chem., Vol. 73, 1907-1916 (2001).
43. P.M. Syagga, G.N. Kamau, B. Waswa-Sabuni, S.O. Dulo, "Potentials of using waste burnt clay as a pozzolanic material in Kenya", Discov. Innov., 13, 114-118 (2001).
44. D.N. Mbui, P.M. Shiundu, R. M. Ndonye and G.N. Kamau, "Adsorption and detection of some phenolic compounds by rice husk ash of Kenyan origin", J. Environ. Monit., 2002, 4, 978-984.
45. Geoffrey N. Kamau, Momanyi P. Guto, Bernard Munge, Venkateswarlu Panchagnula, and James F. Rusling, *Myoglobin Coadsorbed on Electrodes*, *Langmuir*, Vol. 19, No. 17, 2003 , 6981.
46. Geoffrey N. Kamau and James F. Rusling, *Spectroscopic Characterization and Distribution of tris(2,2'-bipyridyl) cobalt (II) in Functional Micelles*, Journal of BioChemiphysics, Vol. 11&12, No.3, 2003.
47. G.N. Kamau I, B. Waswa-Sabuni I, J. C. Ngila, G. E. Ekosse, and S. Coetzee, *Mineralogy, Chemistry and Micromorphology of Ashes obtained from Sugar Cane Bagasse and Rice Husks from Kenya*, Journal of BioChemiphysics, Vol. 11&13, No. 3, December 2003.
48. Joseph M. Mwaniki and Geoffrey N. Kamau, "Factors affecting yield of essential oil from Clevenger distillation of chamomile flowers", International Journal of BioChemiphysics, Vol.11&12 (Nos.1&2) 2003.
49. Geoffrey N. Kamau and Bernard Munge, "Selective control and rate enhancement of reactions involving catalytic reduction of organohalides and reduced form of myoglobin in microemulsions, Pure Appl.Chem., Vol. 76, No. 4, pp. 815-828, 2004.
50. Christopher K. Njue and Geoffrey N. Kamau, Micro-assembly control for electrocatalytic reduction of organohalides using copper phthalocyanine mediator, International Journal of BioChemiphysics, Vol. 13, No.1, August 2004.

51. N. J. Mugo, K. J. cheruiyot, G. N. Kamau, "The hypoglycoemic effect of an extract from the bark of *podocarpus sp.*", International Journal of BioChemPhysics, Vol. 13, No. 2, December 2004, page 57.
52. N. J. Mugo, K. J. cheruiyot, G. N. Kamau, "The hypoglycoemic effect of an extract from the bark of *podocarpus sp.*", International Journal of BioChemPhysics, Vol. 14, Nos. 1 & 2, December 2005, page 37.
53. B.K. Singoei, D.K. Maina, J.C Ngila, G.N. Kamau, Characteristics and suitability of using kenya's natural pozzolana rocks and burnt agro-residues as a substitute to ordinary portland cement clinker, International Journal of BioChemPhysics, Vol. 15, Nos 1 & 2, December 2006, page 1.
54. H.N. Njenga, L. Oyake and G.N. Kamau, J. BioChemPhysics, Vol. 17, No. 1, 2009, page 1.
55. T. Kinyanjui¹, P.M. Gitu¹, D.W. Ichangi² and G.N. Kamau, Applications of Anti-termite Extracts from *Juniperus Procera* and *Croton Megalocarpus*, International Journal of BioChemPhysics, Vol. 16, Nos. 1 & 2, 2007, page 44.
56. P. Muiga, P. Shiundu, F. Mwaura and G. Kamau, "Limiting elements for Nairobi Dam and contributions," J. Biochemphysics vol. 21, 2013, page 1.
57. J. K. Ndathe, F.B. Mwaura, J. Nsumba, L. Berga, P. Ndolo and G.N. Kamau, "Electrochemical monitoring of heavy metal ion solutions containing sweet potato plant varieties in vitro conditions"; Proceedings of Lake Victoria Research Initiative (VicRes); 1-20, 2009.
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59. J. K. Ndathe, F.B. Mwaura, J. Nsumba, L. Berga, P. Ndolo, S.L. Doty and G.N. Kamau, "Uptake and distribution of selected heavy metals by sweet potato plant varieties under green house conditions"; J. Biochemphysics, vol. 18, 2010, pages 20-34.
60. P. Muiga, P. Shiundu, F. Mwaura and G. Kamau, "Correlation between dissolved oxygen and total dissolved solids and their role in the eutrophication of Nairobi dam, Kenya," J. Biochemphysics, vol. 18, 2010, pages 35-43.
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63. P.G. Muigai, P.M. Shiundu, F.B. Mwaura and G.N. Kamau, Initial correlations among the levels of various nutrient species in water from Nairobi dam, Kenya, J. Biochemphysics, vol. 19, 2011, pages 25-36.
64. Gitari W.M., Kinyua A.M., Kamau G.N. and Gatebe C.K., Elemental composition of suspended particulate matter, ..., Ethiopia Journal of Environmental studies and management, Vol. 3, No. 3, 2010.
65. Farida H. Were, Geoffrey N. Kamau, Paul M. Shiundu, Godfrey A. Wafula and Charles M. Moturi, Journal of Occupational & Environmental Hygiene, 9: 2012, pages 340-344.
66. N. J. Muthama, E.M. Mathu and G. N. Kamau, "An investigation of the transport and dispersion of atmospheric pollutants...", International J. BioChemPhysics, vol. 20, 2012, pages 6-16.
67. J. K. Mbugua, I. N. Michira, S. M. Kagwanja, V. O. Madadi, M. F. Zaranyika and G. N. Kamau, "Adsorption of 2, 4, 5, 6 tetrachloroisophthalonitrile (chlorothalonil) by Nairobi River, Sediments", International J. BioChemPhysics, vol. 20, 2012, pages 25-38.
68. pages 25-38.
69. J. K. Ndathe, F. B. Mwaura, J. Nsuba, L. Berga, P. Ndolo, S. L. Doty and G.N. Kamau, "Rate of uptake of cadmium, chromium, lead and zinc ions by roots, stems and leaves..." International J. BioChemPhysics, vol. 20, 2012, page 56.
70. C. Muhavini Wawire, Damien Jouvenot, Frederique Loiseau, Pablo Baudin, Sebastien Liatard, Lydia Njenga, Geoffrey N. Kamau, Mark E. Casida: Density-functional study of luminescence in polypyridine ruthenium complexes, Journal of Photochemistry and Photobiology A: Chemistry 276 (2013) 8– 15.
71. Faridah Hussein; Moturi, Charles M.; Gottesfeld, Perry; Wafula, Godfrey Angoe; Kamau, Geoffrey N.; Shiundu, Paul M.; "Lead Exposure and Blood Pressure among Workers in Diverse Industrial Plants in Kenya", Journal of Occupational & Environmental Hygiene: Accepted
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J. Electroanalysis: Accepted April 2016.

XXIV. Presentation of Papers

1. "Resolution of overlapped current-potential curves for reduction of pyridine carboxylic acids". Presented on June 1984 during A.C.S. meeting in Fairfield, Connecticut.
2. "Electrochemical and electron spectroscopic studies of highly polished GC electrodes". Presented on May 1985 in Toronto, Canada.
3. "Electrocatalytic reactions in organized assemblies part II". Presented on March 1986, at Pittsburg Conference, Atlantic City.
4. "Electrocatalytic reactions in organic assemblies part III", Presented on September, 1986, at ACS meeting in Anaheim, California.
5. "Composition of Kenyan Rice Husk Ash and its applications", Presented during World Conference of Phil. Environment and Development at Kenyatta International Conference Centre, Nairobi, Kenya, 1991.
6. "Organisational Set-up of Maintenance". Presented during the workshop on organisation and management of machine repairs at Harare, Zimbabwe, February, 1989.
7. "Protocol for international co-operative education in developing countries. Presented during the seventh World Conference on co-operative education in Hong Kong, August 1991.
8. "Resolution of catecholamines and indole alkaloid mixtures by pulse voltammetry at highly polished glassy carbon electrode". Presented during the fifth international chemistry conference in Africa. Gaborone, Botswana, July, 1992.
9. "Detoxification of organic pollutants." Presented during the Second Princess Chulabhorn Science Congress: Environment, science and Technology, Bangkok, Thailand, November, 1992.
10. "Rate Enhancement and Control in Bicontinuous microemulsion." Presented during 46th NERM ACS meeting, Boston, MI, June, 1993.
11. "Fables, Folklore, and Ferrocene Electrochemistry". Presented during Electrochemistry symposium, New Orleans, Louisiana, October 10, 1993.
12. Presented three papers during 6th International Chemistry Conference in Africa (July 31, 1995) in Ghana:
 1. Influence of organic solvents and microassembly on electron transition...
 2. Hydrophobic effect of surfactant media on cobalt bipyridyl complexes
 3. Anti-termites extracts from *Juniperus procera*
13. Presented three seminars in the department of Chemistry, University of Zambia, between April 16 and May 6, 1996:
 1. Micellar and microemulsion media for solubilization of nonpolar components.
 2. Electrocatalysis in microemulsions and micellar media
 3. Characterization of extracts of *Juniperus procera* by TLC, column chromatography, GC and GC-Mass spect. techniques.
14. Presented three papers during the 7 International Chemistry Conference in Africa, South Africa, July 6-10, 1998:
 1. Enhanced reaction rates for dehalogenation of organohalide pollutants...
 2. Variation of palm oil physico-chemical properties with Temp.
 3. Variation of plant p,p'-DDT uptake with age and soil type and dependence of dissipation on temperature.
15. Presented two papers during the 3rd Kenya Chemical Society Conference, August 16-20, 1999:
 1. Micro-assembly media control of chemical reactions
 2. DDT uptake by cow-peas plants grown in Mombasa and Nairobi.....
16. Presented one paper, "Laboratory Testing Services in Kenya," during the Harmonized interlaboratory Proficiency Testing scheme (HIPTS), March 24, 2000, **Safari Park Hotel**.
17. Presented one paper, "Reference Materials and their traceabilities," during the Regional Metrology Conference, May 15-18, 2000, **Safari Park Hotel**.
18. Presented a paper on Instrumentation in Africa (Crystallography), **Nancy, France**, August 25, 2000.
19. Presented a paper at the **University of Coimbra, Portugal**, titled "Detoxification of Organohalide substances (April 2-8, 2001)
20. Presented a paper at the **University of Nairobi**, entitled DDT uptake by plants and electrochemical decomposition principles, during the 4th TCA&ESAEC workshop (May 7-11, 2001), 21. 2002, 2003, 2004 and 2005: Teaching Laboratory management courses.
21. November, 2002: Resource person in Laboratory management during the East and Southern Africa Laboratory Managers workshop (E-SALAMA), University of Dar es Salaam.
22. December, 2003: Resource person in Laboratory management during the East and Southern Africa Laboratory Managers workshop (E-SALAMA), Makerere University.
23. December, 2004: Resource person in Laboratory management during the East and Southern Africa Laboratory Managers workshop (E-SALAMA), University of Nairobi, Kenya
24. January 2005: Presented a paper during Network of nitrogen, phosphorus and sulphur symposium, Makerere University, Uganda.
25. August 15, 2005: Presented a paper during the Kenya Chemical Society Conference, Kenyatta University, Kenya
26. July 2005: Presented a paper during Africa Network of pesticide symposium, Makerere University, Uganda

27. September 12-16, 2005: Resource person in Laboratory management during the East and Southern Africa Laboratory Managers workshop (E-SALAMA) in Kampala, Uganda.
28. December 5-9, 2006: presentation of a paper on Catalytic reduction of organohalide pollutants during the 4th TCA&ESAEC Conference in Namibia. General Secretary of 6th TCA&ESAEC workshop.
29. December, second week, 2007: Resource person in Laboratory management during the East and Southern Africa Laboratory Managers workshop (E-SALAMA), in Victoria Falls, Zimbabwe.
30. December, first week of 2007: presentation of a paper on Global warming, Africa Perspective, during the 6th TCA&ESAEC Conference in Victoria Falls, Zimbabwe. Executive Secretary of TCA&ESAEC.
31. November, second week, 2008: Resource person during 1st African Congress on Pesticides and toxicology, University of Gezira, Wadimedani, Sudan.
31. December, second week, 2008: Resource person in Laboratory management during the East and Southern Africa Laboratory Managers workshop (E-SALAMA), Reef Hotel, Mombasa, Kenya.
32. October 2009: Resource person during Kenya Chemical Society Conference and the Theoretical Chemistry and East and Southern Africa Environmental Chemistry Forum, Reef Hotel, Mombasa, Kenya. December, second week, 2008: Resource
33. Conducted a workshop Statistical analysis to laboratory personnel on June 16-18, 2010, Reef Hotel, Mombasa, Kenya.
34. Presented a paper during Laboratory manager's workshop in Victoria Falls, Zimbabwe, December 05-09, 2011.
35. Presented a paper on laboratories in Africa during OPCW workshop in Hague, The Netherlands on June 25-27, 2012.
36. Presented Audit paper during Laboratory manager's workshop in Maseru, Lesotho, December 03-07, 2012.
37. Presented a paper on nanoparticles during ANCAP symposium in Dar es Salaam, Tanzania, January 5-7, 2013.
38. Presented a paper on iron and silver nanoparticles at Uconn, Storrs, U.S.A., May 21, 2013.
39. Carried out training workshop on ISO 17025: University of Gezira, Sudan, September 16-18, 2013.
40. February, first week of 2014: presentation of a paper on "uptake of DDT by soils and plants", during the Pest management conference at the University of Gezira, Sudan.
41. June 09, 2014: presentation of research paper during the SEANAC conference in Mombasa, Kenya.
42. Conducted three trainings on Chemical safety and security on February, April 2016 and December in Mombasa, Kenya.
43. Laboratory training at the University of Gezira, Sudan, March, 2015.
44. Presented a paper on statistical analysis during Laboratory training at Makerere University, Uganda, March, 2016.

XXV. Patent: 1. My collaborator and I have come up with a procedure for extracting avocado oil, using low cost, locally available materials.
2. My collaborator and I have come up with a drug for treating herpes zoster and related wounds.

XXVI. Workshops/Organizer/Courses Attended:

1. **Attended Surface Science and Catalysis/IAEA Workshop, Trieste, Italy, May 1987.**
2. Attended Organisation and Management of Equipment Maintenance at Universities, ANSTI/GTZ, Harare, Zimbabwe, February, 1989.
3. Attended Radiochemistry Laboratory course/IAEA, Ljubljana, Yugoslavia, January, 1990.
4. Attended University-Industry Co-operation Workshop, UON/UNESCO, Nairobi, Kenya, March, 1991 (**Chief Organizer**).
5. Attended introduction to computer workshop, University of Connecticut, March 1993.
6. **Chief organizer** of the first Theoretical Chemistry Workshop in Africa February 20, 1995.
7. **Chief organizer** of the second Theoretical Chemistry Workshop in Africa August 26, 1996.
8. **Chief organizer** of the Third Theoretical Chemistry Workshop in Africa and ESAEC workshop: Nov. 2-6, 1998.
9. Attended ACS NERM Conference, June 19-21, 2000, University of Connecticut, USA
10. **Chief organizer** of the Theoretical Chemistry Workshop in Africa and ESAEC workshop: May 7-11, 2001 and November 201 (Ethiopia).
Chief Organizer of First Workshop on Instrument Repairs and Maintenance, September 18-22, 2000, Department of Chemistry, University of Nairobi
11. Attended one day workshop of KCS, September 22, 2000, Department of Chemistry, University of Nairobi.
12. **Chief organizer** East and Southern Africa Laboratory managers workshop: November, 2002 (Tanzania).
13. **Core organizers (secretariate at Egerton)** of the 4th Kenya Chemical Society Conference, August, 2002 (Egerton).
14. **Chief organizer** East and Southern Africa Laboratory managers Association (E-SALAMA) workshop: December 2003, Uganda
15. **Chief organizer** East and Southern Africa Laboratory managers workshop: September 12-16, 2005, Morogoro, Tanzania.
16. **Chief organizer** East and Southern Africa Laboratory managers (E-SALAMA) workshop: December, 2003 (Uganda).
17. **Chief organizer** East and Southern Africa Laboratory managers (E-SALAMA) workshop: December, 2004 (Kenya).
18. **Chief organizer** East and Southern Africa Laboratory managers (E-SALAMA) workshop: December, 2004 (Uganda).
19. **Chief organizer** East and Southern Africa Laboratory managers (E-SALAMA) workshop: December, 2005 (Tanzania).
20. **Chief organizer** East and Southern Africa Laboratory managers (E-SALAMA) workshop: December, 2006 (Uganda).
21. **Chief organizer** East and Southern Africa Laboratory managers (E-SALAMA) workshop: December, 2007 (Zimbabwe).
22. **Chief organizer** East and Southern Africa Laboratory managers (E-SALAMA) workshop: December, 2008 (Kenya).
23. Organizer, Kenya Chemical Society Conference and Theoretical and Environmental Chemistry Workshop, October

- 2009, Kenya.
23. **Chief organizer** East and Southern Africa Laboratory managers (E-SALAMA) workshop: December, 2009 (Ethiopia).
 24. Chief organizer for E-SALAMA in 2010
 25. Chief organizer/alternate for E-SALAMA in 2011 in Zimbabwe, December 05-09, 2011.
 26. Organizer/alternate for E-SALAMA in 2012 in Lesotho, December 01-05, 2012.
 27. Coordinated E-SALAMA workshop in Botswana, December 09-13, 2013.
 28. Chairman, Analytical Chemistry-SEANAC conference in Mombasa, June 09-13, 2014.
 29. Chairman and **Chief organizer** East and Southern Africa Laboratory managers (E-SALAMA) workshop: December, 2014, Mombasa.
 30. Workshop: Organizer and Resource person: training Customs officers in Mombasa, KESRA, 4th to 6th February 2015.
 31. Workshop: Organizer and Resource person: training Customs and border Security personnel in Mombasa, KESRA, 25th - 27th March, 2015.
 32. Workshop: Organizer and Resource person: training Police and NIS personnel in Mombasa, Reef Hotel, 27-29th May 2015.

XXVII. Visiting Professor:

University of Zambia, Department of Chemistry, April-May, 1996.
University of Witswatersrand, Dept. of Chemistry, July-August 1999)

XXVIII. Other Activities/Ph.D. Program

Ever since I returned from U.S.A. at least thirty of my former students had been admitted to my former University, University of Connecticut. Two more went on August, 2013.

XXIX. Mission: 2011: Travelled to the University of Liberia to assess the status of the Department of Chemistry, following years of war, under the sponsorship of UNESCO/ANSIT, Nairobi office.

MOTIVATION/CITATION

I always like watching plants grow and all other living things, including ourselves, for this is the true reflection of what Natural science is all about. The ability to carry out tests in a laboratory to prove a point in nature and to understand its complexities brings hope to life. I have always found working in a laboratory quite challenging and enticing. The element of developing necessary new products, procedures and methods to achieve the intended objectives makes all the difference. The other attractive aspect of a laboratory result is the ability to come up with organization and national policies, which in turn adds value to human beings. Development and overall economic status of a nation hinges on the ability to export its locally produced goods, suggesting that the quality has to be good in order to win the highly competitive markets. Laboratories enable us to break the anticipated trade barriers, which in turn calls for the presence of accredited laboratories. Thus a laboratory has become an entity we cannot just ignore at any one time. The ability to analyze our waters, remembering water is life, and the need to overcome the occupational health hazards at our work place using analytical techniques has improved our lives tremendously. What is of additional interest to me is going to the field (say contaminated water, plants contaminated with say aflatoxins, polluted environment, fighting area, scene of crime or even suspected area of firearms or bomb use) inspect, sample and carry out the overall analyzes.

The best one can do in life is to teach the others to value life, which in turn brings about other objectives we encounter in our day-to-day activities. Taking research and administrative responsibility is part of the many objectives one has to accomplish in life.

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