

CURRICULUM VITAE

NAME: FRANCIS WACHIRA KARIUKI

PERSONAL HISTORY

NATIONALITY: KENYAN

DATE OF BIRTH: 1963

RELIGION: CHRISTIAN

LANGUAGES: ENGLISH, SWAHILI

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A SYNOPSIS OF MY CURRICULUM VITAE

For the last 10 years, I have been involved in research in various aspects of the environment with special emphasis on the interactions of various factors such as the plant/animal relationships etc. Much of my work has revolved on the impact of different production systems on various ecosystems especially in fragile marginal areas where unidirectional pressures may result in over utilization and sometimes extinction of some resources.

I am an Ecologist with both Master of Science and Doctor of Philosophy degrees in Ecology. My areas of interest, include, sustainable utilization of natural resources by communities, wildlife-human and human-human conflicts, Policy Analysis in Forest Management in Eastern Africa, Biodiversity and nexus between poverty, access to and maintenance of biological (plant, soil and water) resources, land use change and population growth around critical natural resources. The solutions I seek are based on an integrated socio-economic and ecological approach. I am computer literate with several years of experience in computer data management.

ACADEMIC QUALIFICATIONS

2001 - Ph.D. (Plant Ecology), Kenyatta University. Thesis title: Carbon Budget and sustainable harvesting of *Cyperus papyrus* L. (Papyrus) in a Lake Naivasha papyrus swamp, Kenya.

1994 - Certificate in Productivity In a Changing Environment, KMITT, Bangkok, Thailand

1993 - M.Sc. (Aquatic Ecology), Kenyatta University. Thesis title: Growth dynamics and primary production of *Eichhornia crassipes* (Mart.) Solms in Lake Naivasha, Kenya.

1988 - B.Ed. (Hons) (Biological Sciences), Kenyatta University.

PROFESSIONAL QUALIFICATIONS

- 2003-Present Lecturer, Department of Plant and Microbial Sciences, Kenyatta University teaching both Undergraduate and Postgraduate students: Areas of teaching include Conservation Biology, Rangeland Ecology, Arid lands Ecology, Forest Ecology, EIA, Aquatic Ecology and Community Ecology.
Member of Departmental Curriculum Review Committee.
Reviewing and developing new curriculum in natural resources conservation and EIA
Training areas: Community forestry, Tropical forestry, Bio-prospecting and mining
- 2005- Reviewed and developed curriculum on Ecology, natural resources conservation and Agroforestry for Jomo Kenyatta University of Agriculture and Technology.
- 2000-2003 Part-time Lecturer, Department of Botany and Department Biomechanical and Environmental Engineering, Jomo Kenyatta University of Agriculture and Technology teaching both Undergraduate and Postgraduate students: Units taught include Rangeland Ecology, Arid lands Ecology, Forest Ecology, Plant Ecology, Advanced Plant Ecology, Ecophysiology, and Social and Physical Ecology.
- 1993 Part-time Lecturer, Biological Sciences Department, JKUCAT teaching Survey of Plant Kingdom.
- 1992-1993 Graduate Teacher, Starehe Boys' Centre teaching both Biology and Chemistry.
- 1988-1989 Graduate Teacher, Chepterit Girls' High School teaching both 'O' and 'A' Level Biology and Chemistry, Head of Science Department and Patron, School Wildlife Club.

ADMINISTRATIVE RESPONSIBILITIES

A) Appointment to University committees by the Vice chancellor

Membership

Committee on establishment of School of Agriculture

Committee to develop M.Sc (SFM) curriculum

B) Appointment to School committees by Dean, SPAS

Chair-B. Sc Admission

-Field Trips (2007-2008)

Membership

Committee member for the Development of B. Sc Coastal and Marine Resource Management and B.Sc Conservation Biology curriculum.

C) Appointment to Departmental committees

Chair- Field Trips

Research, Linkages and Research facilities

Membership

Curriculum Review

Board of Undergraduate Studies

Board of Postgraduate Studies
Head of Ecology section

POSTGRADUATE STUDENTS SUPERVISION

(i) Master of Science (M.Sc.) Students.

Graduated

JAMES MAGONDU GITHINJI (B. Sc): I56/CE/10966/2006: IN VITRO ANTIMICROBIAL ACTIVITY OF SELECTED HONEYS ON CLINICAL ISOLATES OF *Staphylococcus aureus*.

GITHAIGA, MICHAEL NJOROGE (B. Ed): I56/CE/15321/2008: PRODUCTIVITY AND BIOMASS ACCUMULATION OF NATURAL MANGROVE FORESTS AT GAZI BAY, KENYA.

VICTOR G. NGA'NG'A (B.Ed. Science, Hons): REG NO: I 56/10405/2007. A COMPARATIVE STUDY OF THE PHYSICO- CHEMICAL PROPERTIES AND BACTERIAL LOAD OF GREYWATER IN HOMABAY TOWN AND GITHURAI ESTATE.

WENDOT, PHILIP KIBET (B. Sc): I56/21145/2010. DEVELOPMENT OF SITE-SPECIFIC TECHNOLOGIES FOR IDENTIFICATION OF SOILS IN TOMATO FIELDS INFESTED WITH ROOT KNOT NEMATODES (RKN) IN MWEA, KENYA.

Thesis defended successfully

JUMA VICTOR H. OMONDI (B. Sc). AGRICULTURE): I56/CE/12139/07. EFFICACY OF INSECTICIDE TREATED INSECT PROOF NETS IN MANAGEMENT OF TOMATO PESTS.

Thesis submitted

NGUNDO, GEORGE W. (B. Sc): I56/21146/2010. EVALUATION OF ROOT- KNOT NEMATODE MANAGEMENT STRATEGIES BASED ON THEIR DISTRIBUTION IN TOMATO FIELDS IN MWEA, KENYA.

KARIUKI PAULINE M (Bed Sc): I56/CE/22259/2010: EVALUATION OF TOMATO CULTIVA FOR RESISTANCE TO *Fusarium oxysporum f. Sp. Lycopersici* AND *Meloidogyne spp.* IN THE HUMID COAST REGION.

Draft thesis under review

JUMA PETER MUCHEMI (B.Ed): I56/CE/23444/2010. OPTIMIZE RESOURCE USE THROUGH CONCURRENT RICE-FISH CULTURE IN BUNDALANGI FLOOD PLAIN, BUSIA DISTRICT.

ROTICH HILLARY B. Ed(Sci): I56/21422/2010. MANGO TREE WATER REQUIREMENT AND THE INFLUENCE OF DRIP IRRIGATION ON FRUIT QUANTITY AND QUALITY.

TITUS ELIZABETH KAMBUA Bsc Agricultural Education and Extension (Aged); I56/CE/15088/08. SPATIAL AND TEMPORAL DISTRIBUTION OF THE *OPUNTIA STRICTA* IN TSAVO EAST NATIONAL PARK.

OMONDI DAVID OLELA (B.Ed Science): I56/25489/2011. INTEGRATING FISH AND POULTRY MANURE INTO RICE FIELDS IN BUNYALAIRRIGATION SCHEME, KENYA.

LEGUUTO NTEIYE ANGELINE (Bed. Science): Reg. No: I56EA/24207/2011. IDENTIFICATION OF FISH SPECIES SUITABLE FOR RICE-FISH CULTURE IN BUNYALA IRRIGATION SCHEME.

CHEPTUM MAGDALINE (B.Ed): I56/20576/2010. RICE STRAW ASH AS AN ORGANIC FERTILIZER AND ITS EFFECT IN SOIL MICROBIAL POPULATION AND YIELD OF RICE IN MWEA.

ANASWA B. LUCY (B.ED Sc); 156/CE/10132/2008. PHYSICO-CHEMICAL PROPERTIES OF RIVERS KISAT AND KISIANI AND THEIR IMPACT ON THE PHYTOPLANKTON AND PHYSICO-CHEMICAL CHARACTERISTICS OF KISUMU AND USOMA BAYS, LAKE VICTORIA, KENYA

(ii) Doctor of philosophy (Ph.D)

KARUGIA ELIJAH SAMUEL KAMAU (MSc.Plant Ecology): I84/25488/2011. IMPACT OF RANGE CONDITION AND WOODY SPECIES ABUNDANCE ON RESILIENCE AND BIOMASS PRODUCTION BY FOUR FORAGE SPECIES IN EASTERN KENYA.

CONFERENCES, WORKSHOPS AND SEMINARS ATTENDED

July 1991 - Seminar on Wetlands, National Museums of Kenya.

Jan. 1994 - Training course on techniques in photosynthesis and productivity in a Changing Environment, Bangkok, Thailand.

Nov. 1994 - Resource person in a seminar on development of a Digital Biodiversity Database on Lake Naivasha Region on Interactions between Resources Utilization and Biodiversity of Lake Naivasha.

May 1995 - Training Workshop on Eddy Covariance, Computer Data analysis and methods of assessing productivity and biodiversity in tropical wetlands, Essex University, UK and Trinity College, Dublin University, Ireland.

April 1999- Presented two papers at an International Conference on Tropical shall waters and Humans at KWSTI, Naivasha, Kenya titled:

1. The Structure, Functioning and conservation of Wetlands and

2. Sustainable Harvesting of *Cyperus papyrus* L

- April 2007 Harmonization Workshop on Proposal Writing. Jinja, Uganda
- April 2008 A course on Effective Project Planning and Evaluation In Health Research, KARI TRC, Muguga
- August 2008 The International Workshop `Re-Conceptualization of Wildlife Conservation: Towards Reasonable Actions for Local Life. Embassy of Japan, Nairobi
- Oct/Nov 2008 Kenya Agricultural Productivity Project (KAPP) training workshop on Strategic Planning, Project Management, Proposal Writing and Project Monitoring and Evaluation. EAST College, Embu.
- 2008 Kenyatta University/AGRA Workshop on “Development of M. Sc and Ph.D curriculum on Integrated Soil Fertility Management, Merica Hotel, Nakuru.
- 2008-2010 Three Workshops on University Based Learning Cycle (Activity 2, 3 & 4) of ‘Strengthening of university capacity for promoting, facilitating and teaching rural innovation processes’. In Egerton University, Jomo Kenyatta University of Agriculture and Technology, Kenyatta University.
- 2010 The VicRes Pollution and Heavy Metals Cluster workshop from 29th August to 1st September 2010 at Jinja Nile Resort, Uganda.
- 2011 KAPAP Proposal Development Training Workshop from 13th to 19th February 2011, EAST College, Embu.
- 2011 KAPAP Collaborative Research Grant Workshop and Launch of Research Projects from 24th to 26th August 2011 at KARI Headquarters.
- 2011 An Orientation Workshop for PIs of RUFORUM Graduate Research Grantees, Kampala from the 19th to 21st September 2011.
- 2011 The First VICRES Biennial Forum from 9TH to 12TH October 2011, Commonwealth Speke Resort Munyonyo, Uganda, Theme: Responding to the Development Needs of the East African Region.
- 2011 Kenya Rice Researchers Forum Launch, AICAD, JKUAT.
- 2012 The 1st meeting of KAPAP Research Proposal Review and Advisory Committee (RePRAC), from 3rd to 4th April 2012, at KARI Naivasha.
- 2012 KAPAP CGS 2nd Collaborative Research Call Workshop, 13th - 16th August 2012 at KARI, Naivasha.
- 2012 A training workshop by the International Service for the Acquisition of Agri-Biotech Applications (ISAAA) *AfriCenter*, The Lukenya Getaway in Athi River from 17th to 18th September 2012.
- 2012 Third Regional Universities Forum for Capacity Building in Agriculture Biennial Conference. THEME: Partnerships & Networking for Strengthening Agricultural Innovation and Higher Education in Africa; 24-28 September, 2012; Imperial Resort Beach Hotel and Imperial Botanical Beach Hotel, Entebbe, Uganda.

- 2013 KAPAP CGS Workshop on full proposal development for the 2nd award, 22nd-27th September at the Agriculture Training Center (ATC), Nakuru.
- 2015 International Institute of Rural Reconstruction: KAPAP Documentation WriteShop; 20th-25 April 2015, Nakuru.
- 2015 **KAPAP CGS COLLABORATIVE RESEARCH STAKEHOLDERS CONFERENCE, THEME: ENHANCING AGRICULTURAL PRODUCTIVITY AND INCOMES THROUGH RESEARCH PARTNERSHIPS, TECHNOLOGIES AND INNOVATIONS FOR SUSTAINABLE DEVELOPMENT, 10TH - 12TH JUNE 2015, AT KALRO HEADQUARTER.**

WORKSHOP ORGANIZED

- 2012 Organized a one day workshop on 21st June for PIs in 1st KAPAP CGS Collaborative Research to present their preliminary results at KARI HQs.

RESEARCH UNDERTAKEN

- 1991-1992 Growth dynamics and primary production of *Eichhornia crassipes* (Mart.) Solms in Lake Naivasha, Kenya. Funded by Elsa Conservation Trust.
- 1994-1997 Carbon Budget and sustainable harvesting of *Cyperus papyrus* L. (Papyrus) in a Lake Naivasha papyrus swamp, Kenya. Funded by EU.
- 2008-12 Investigating Greywater treatment and reuse in agriculture as a means to improving livelihood, public health and environmental protection in the Lake Victoria Basin. Funded by VicRes.
- 2010-2013 Lengthening the Rice Value Chain Through Commercialization of Rice By-Products. Funded by NCST.
- 2010-2013 Value addition of fish and fisheries wastes/by-products into aquafeed for tilapia and catfish. Funded by NCST.
- 2011-2013 Participatory Development, Testing and Validation of Concepts and Technologies for Site-Specific Detection and Control of Plant Parasitic Nematodes Infecting Tomatoes in Mwea, Kenya. Funded by RUFORUM.
- 2011-2013 Enhancing crop productivity and income generation through integrated water and soil fertility management in different agro-ecological zones of Kenya. Funded by KAPAP/WB.
- 2012-2014 Participatory development and validation of culture models of integrating fish polyculture-livestock into irrigated ricefields to enhance competitiveness of rice farming in Mwea, Kenya. Funded by RUFORUM.

PROCEEDINGS OF WORKSHOPS

- Kiplagat Kotut, E.O. Chaggu, M.S. Nabacwa, **F. Kariuki**, C. Nkata, V. Nga`ng`a. 2009. Greywater treatment and reuse for agricultural production and environmental protection in the Lake Victoria Basin. Lake Victoria Research Initiative Proceedings, Bujumbura, Burundi.
- Kariuki, G.M., **Kariuki, F.W.**, Birgen, J.K. & Gathaara, V. 2010. Participatory development, testing and validation of concepts and technologies for site-specific detection and control of plant parasitic nematodes infecting tomatoes in Mwea, Kenya. *Second RUFORUM Biennial Meeting 20 - 24 September 2010, Entebbe, Uganda.*
- Kokwaro, E. D. Gicheru, M. Okoth, S. **Kariuki F.** and D. Ogingo. 2011. Improving food security and human health through integration of organic manure and medicinal plants into Rice paddies in Ahero. CONFERENCE PROCEEDINGS. THE 4TH NATIONAL CONFERENCE ON DISSEMINATION OF RESEARCH RESULTS AND EXHIBITION OF INNOVATIONS. THEME: SCIENCE, TECHNOLOGY AND INNOVATION AS A PLATFORM FOR NATIONAL DEVELOPMENT. Kenyatta International Conference Centre (KICC), Nairobi, Kenya.
- Ngundo, G.W., Kariuki, G.M., **Kariuki, F.W.** & Birgen, J.K. Evaluation of root- knot nematode management strategies based on their distribution in tomato fields in Mwea, Kenya. *Third RUFORUM Biennial Meeting 24 - 28 September 2012, Entebbe, Uganda.*
- Wendot, P.K., Kariuki, G.M., **Kariuki, F.W.**, Birgen, J. K., Njue, A. & Ngundo, G.W. Towards development of site specific technologies for identification of fields infested with root-knot nematodes (RKN) under tomato cropping system in Mwea, Kenya. *Third RUFORUM Biennial Meeting 24 - 28 September 2012, Entebbe, Uganda.*

EXHIBITIONS AT WORKSHOPS

POSTERS TITLES

ENHANCING CROP PRODUCTIVITY AND INCOME GENERATION THROUGH INTEGRATED WATER AND SOIL FERTILITY MANAGEMENT IN DIFFERENT AGRO-ECOLOGICAL ZONES OF KENYA by **Kariuki et al.** during the KAPAP Collaborative Research Grant Workshop and Launch of Research Projects,

EVALUATION OF ROOT- KNOT NEMATODE MANAGEMENT STRATEGIES BASED ON THEIR DISTRIBUTION IN TOMATO FIELDS IN MWEA, KENYA, BY NGUNDO, G. W. , KARIUKI, G. M, **KARIUKI, F. W., & BIRGEN, J. K.** THIRD REGIONAL UNIVERSITIES FORUM FOR CAPACITY BUILDING IN AGRICULTURE BIENNIAL CONFERENCE. 24-28 SEPTEMBER, 2012; IMPERIAL RESORT BEACH HOTEL AND IMPERIAL BOTANICAL BEACH HOTEL, ENTEBBE, UGANDA.

TOWARDS DEVELOPMENT OF SITE SPECIFIC TECHNOLOGIES FOR IDENTIFICATION OF SOIL FIELDS INFESTED WITH ROOT-KNOT NEMATODES (RKN) UNDER TOMATO CROPPING SYSTEM IN MWEA, KENYA by Wendot P. , Kariuki, G. M.², **Kariuki, F. W.**, & Birgen, J. K. Third Regional Universities Forum for Capacity Building in Agriculture Biennial Conference. 24-28 September, 2012; Imperial Resort Beach Hotel and Imperial Botanical Beach Hotel, Entebbe, Uganda.

INTEGRATING FISH POLYCULTURE AND POULTRY/SERICULTURE INTO RICE FIELDS IN MWEA IRRIGATION SCHEME, KENYA by Omondi, D. O.& Kariuki, F. W., Third Regional Universities Forum for Capacity Building in Agriculture Biennial Conference. 24-28 September, 2012; Imperial Resort Beach Hotel and Imperial Botanical Beach Hotel, Entebbe, Uganda.

INTEGRATING RICE AND FISH POLYCULTURE TO IMPROVE RICE YIELDS AND FOOD SECURITY IN MWEA, KENYA by Leguuto N.A. & Kariuki F. W, Third Regional Universities Forum for Capacity Building in Agriculture Biennial Conference. 24-28 September, 2012; Imperial Resort Beach Hotel and Imperial Botanical Beach Hotel, Entebbe, Uganda.

PUBLICATIONS

Francis W. Kariuki, Kiplagat Kotut and Victor G. Ngángá. 2011. The Potential of a Low Cost Technology for The Greywater Treatment. *The Open Environmental Engineering Journal*, 2011, 4, 1-8.

Kiplagat Kotut, Victor G. Nganga and **Francis W. Kariuki**. 2011. Physico-Chemical and Microbial Quality of Greywater from Various Households in Homa Bay Town. *The Open Environmental Engineering Journal*, 2011, 4, 162-169.

Francis W. Kariuki, Victor G. Ng`ang`a and Kiplagat Kotut. 2012. Hydrochemical Characteristics, Plant Nutrients and Metals in Household Greywater and Soils in Homa Bay Town. *The Open Environmental Engineering Journal*, 2012, 5, 00-00.

Victor G. Ng`ang`a, **Francis W. Kariuki** and Kiplagat Kotut A Comparison of the Physico-Chemical and Bacteriological Quality of Greywater from Water Deficient Households in Homabay Town and Githurai Estates in Kenya. *The Open Environmental Engineering Journal*, 2012, 5, 110-118.

PAPERS PRESENTED AT INTERNATIONAL CONFERENCES

2010 1. Title: **The potential of a low cost treatment system for GW**. Paper presented at the **2nd POLLUTION & HEAVY METALS CLUSTER WORKSHOP JINJA NILE RESORT IN UGANDA FROM 29th AUGUST TO 1st SEPTEMBER, 2010**

2. Title: Physico-chemical and microbial quality of greywater from various households in Homa Bay town on behalf of Prof. K. Kotut. Paper presented at the **POLLUTION 2nd POLLUTION & HEAVY METALS CLUSTER WORKSHOP JINJA NILE RESORT IN UGANDA FROM 29th AUGUST TO 1st SEPTEMBER, 2010**.

2011 Funding Rice Research in Kenya. Current status and Opportunities. Paper presented at the Launch of Kenya Rice Researchers Forum Launch, AICAD, JKUAT.

2012 Title: Participatory development and validation of culture models of integrating fish polyculture livestock into irrigated ricefields to enhance competitiveness of rice farming in Mwea, Kenya. Paper presented at the Third Regional Universities Forum for Capacity Building in Agriculture Biennial Conference. THEME: Partnerships & Networking for Strengthening Agricultural Innovation and Higher Education in Africa; 24-28 September, 2012; Imperial Resort Beach Hotel and Imperial Botanical Beach Hotel, Entebbe, Uganda

EXTERNAL RESEARCH AWARDS

- 2007 Research grant awarded by the Inter University Council of East Africa Worthy US\$ 50,000 for the first year and similar amounts for two subsequent years. Title: Greywater treatment and reuse for agricultural production and environmental protection in the Lake Victoria Basin. This project is in collaboration with Prof. Kiplagat Kotut, Plant & Microbial Sciences Dept., Kenyatta University as PI, collaborators: **Kariuki, F.W**, E.O. Chaggu, University College of Lands and Architectural Studies and M.S. Nabacwa , Uganda Christian University Mukono; Faculty of Social Sciences.
- 2010 THE RUFORUM COMPETITIVE GRANTS SYSTEMS' GRADUATE RESEARCH GRANTS (CALL ID: RU/CGS/GRG/15/11/09) of US\$ 59,981. This grant was awarded with Dr. Kariuki G.M as the PI, collaborators: **Kariuki, F.W.**, Birgen, J.K. & Gathaara, V. The title of the project is Participatory development, testing and validation of concepts and technologies for site-specific detection and control of plant parasitic nematodes infecting tomatoes in Mwea, Kenya
- 2011 National Council for Science and Technology grant of KES 5million to carry out research titled Lengthening the Rice Value Chain Through Commercialization of Rice By-Products. **PI: Dr. Kariuki, F.W** Collaborators: MS. Lucy K. Wangai-KIRDI, Dr. Stephen K. Wambugu—KU, Mr. Joseph K. Mburu-TRAIL, Dr. Joseph K. Gathua-KU, Prof. Charles Gachene-TRAIL, Dr. Beatrice Mugendi-KU.
- 2011 National Council for Science and Technology grant of KES 2.5million to carry out research titled: Value addition of fish and fisheries wastes/by-products into aquafeed for tilapia and catfish. PI: Prof E. Kokwaro. Collaborators: Dr. Genevieve Mwayuli, CUEA, Dr. Beatrice Mugendi-KU, Ms Priscilla Boera-KMFRI and **Dr. Kariuki, F.W-KU**.
- 2011 KAPAP CGS Collaborative Research Grant of KES 23,984, 238.00 for research project titled ` Enhancing crop productivity and income generation through integrated water and soil fertility management in different agro-ecological zones of Kenya.` **PI: Dr. Kariuki, F.W.** Collaborators: Dr. Anthony O. Esilaba, Dr. Peter T. Kamoni (KARI), Prof. J.R. Okalebo (MU), Mr. Stephen Njau (MOFD), Dr. Raphael Kinyanjui Wanjogu (NIB), Dr. Stephen K. Wambugu, Prof. Kiplagat Kotut and Dr. Moses P. H. Gathaara (KU).
- 2011 THE RUFORUM COMPETITIVE GRANTS SYSTEMS' GRADUATE RESEARCH GRANTS (CALL ID: RU/CGS/GRG/15/10/10) of US \$ 59,990 to carry out research titled Participatory development and validation of culture models of integrating fish polyculture-livestock into irrigated ricefields to enhance competitiveness of rice farming in Mwea, Kenya. **PI: Dr. Kariuki, F. W.** Collaborators: Maina, J. G. (University of Nairobi), Wanjogu, R. K. (NIB) Ndogoni, J. N (MOFD) and Gathaara, V. (KARI).

NETWORKING AND COLLABORATION

Member of Kenya Rice Researchers Forum

Collaboration with KARI, UON, NIB, MU, MOFD, KEFRI, KMFRI, University College of Lands and Architectural Studies, Tanzania and Uganda Christian University Mukono; Faculty of Social Sciences, CWMS, Kimana.

REFEREES

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