

# LEONARD SAMITA WAMOCHO

## CURRICULUM VITAE

### **Professional Discipline**

- AGRICULTURIST / HORTICULTURIST

**Present Position:** Professor of Horticulture, Masinde Muliro University of Science and Technology.

### **Education**

- PhD in Horticulture / Jomo Kenyatta University of Agriculture and Technology 1999.
- Master of Science in Horticulture. Clemson University, South Carolina. USA 1984.
- Bachelor of Science in Horticulture (Major) and Ornamental Horticulture (Minor) University of Florida, Gainesville, Florida. USA 1981.
- Certificate in Environmental Studies. University of Florida, Gainesville, Florida. USA 1981.
- Diploma in Horticulture. Egerton University (College), 1972

### **PROFESSIONAL QUALIFICATIONS**

#### **CERTIFICATES**

##### **A. ACADEMIC CERTIFICATES**

1. Doctor of Philosophy (PhD). April 7, 1999 in Horticulture. Jomo Kenyatta University of Agriculture and Technology
2. M.Sc. Agriculture Major minor Horticulture. December, 1981. University of Florida., Gainesville, USA
3. Diploma in Horticulture. December 1972. Egerton College (University).

## **B. SELECTED PROFESSIONAL - ACADEMIC CERTIFICATES**

1. Recognition of Judging Scientific Papers. Kenya Agricultural Research Institute. 13<sup>th</sup> 17<sup>th</sup> November 2006. Other participations: 2000, 2002, 2004 and 2008.
2. Grant Proposal Writing Workshop. Trainer. 8<sup>th</sup> – 11<sup>th</sup> 2005. JKUAT.
- 3 Writing Proposals for Research Funding Workshop. World Learning. 20 – 24 September 2004
4. . Good Corporate Governance Seminar. 5<sup>th</sup> – 6<sup>th</sup> May 2003. Criminal Investigation Department. Anti – Corruption Police Unit
- 5 Internationalization of Higher Education The African Experience and Perspective. Moi University, Kenya 12<sup>th</sup> – 16<sup>th</sup> August 2002
6. . Modification and Adaptation of the FAO Home Gardening Training Package for Kenya. Workshop. 6<sup>TH</sup> – 7<sup>TH</sup> July 2001
7. Temperate Zone Fruits in the Tropics and Sub-tropics. Santiago. June 12, 2000
8. Biological And Physical Aspects Of Crop Production In Arid Zones. 6 December 1993 – 24 January 1994. Ben Gurion University of the Negev. Jacob Blaustein Institute for Desert Research (IDR). Desert Agrobiolgy Centre. (Certificate not included)

## **SCIENTIFIC, ACADEMIC AND PROFESSIONAL ACTIVITIES AT MMUST**

### **INNOVATION**

Three New Papaya Ringspot resistant varieties have been approved and are undergoing countrywide Performance Field Tests

### **RESEARCH ACTIVITIES**

1. Control of Papaya ringspot virus. In collaboration with JKUAT
2. INSEFOODS Project. A World Bank funded project on going in partnership with JOOUST (Am the PI at MMUST)
3. Tissue culture of disease-free high yielding sugar cane varieties awaiting release of funds by URF

### **POSTGRADUATE STUDENTS:**

Two (2) PhD Internal Students

a) Mr. Benson Maniaji (Proposal Stage)MMUST

b) MS JaniferNangilaMafuta (Collecting field data and materials for laboratory analysis)MMUST

Two (3) External

- a) Francis Ombwara (Advanced research)JKUAT

- b) Daniel Chebet (Lecturer at the University of Eldoret) External Examination stage **JKUAT**
- c) Kababu Marggie (Ugandan) at **JOUST** at Concept note level

Two (2) MS Students

- a) Rydon Chebuche 1<sup>st</sup> Year **MMUST**
- b) Tom Onzima (Ugandan) 1<sup>st</sup> Year **MMUST**
- c) Adram Shikuku Akhayere 1<sup>st</sup> Year **MMUST**

### **SUPPORT OF SAVET ACTIVITIES**

1. Development of Model Farm....Raised proposal with colleagues
2. Helped acquire livestock
3. Have introduced a vermiculture technology
4. Have introduced a mandela vegetable garden
5. Currently in charge of coordination of the 3<sup>rd</sup> Agri- expo Exhibition
6. Currently in charge of Activities at the ASK Kakamega Show ground

### **ACADEMIC PROGRAMMES**

1. Am coordinating review of Certificate, Diploma programmes in line with TVETA
2. Developing a PhD programme in horticulture (Draft in the hands of Programme Review Committee of the University) of the University
3. MS programme in Horticulture in the last draft stage.

### **UNIVERSITY COMMITTEES**

1. Substantive member of the University Senate
2. Member of Executive Committee of Professors for the establishment of the School of Medicine...the committee not yet dissolved
3. Chair of Appeals Committee on Examination Irregularities among others

### **OUTREACH ACTIVITIES**

1. Currently, BOM of Webuye DEB secondary school
2. Sdikho Vocational Training Centre in Bungoma County
3. Member of Stake Holders Committee on Programmes Review in Biological School at JOUST

### **TEACHING**

#### **UNDERGRADUATE**

**Current**

Teaching about 180 Undergraduate students from SAB, SAE, SAR and SAM programmes

**Semester 1 2019/2020 Academic Year**

1. IAB 307 Horticultural Crops

**Semester 1 2019/2020 Academic Year**

2. ACR 202 -Principles and Practices of Horticulture

**POSTGRADUATE**

1. PIT 921 Ethics and Etiquette in Scientific Research and Writing
2. AAH 826 Vegetable Crops
3. Graduate Seminars

**PROJECT GRANTS/COLLABORATIVE RESEARCH**

1. A collaborative research project for Eastern and Southern Africa Higher Education Centers of Excellence project March 11, 2016. US\$ 8 Million
2. National performance trials for new JKUAT papaya varieties – Kenyan KSh 300,000/=

Dr. Francis N. Muyekho

Ag. COD – Agriculture and Land Use Management

**Professional experience**

Have participated in the organization and training, evaluation, quality assurance etc among latest of them key being:

- Pioneered the Annual JKUAT Scientific, Technological and Industrialisation Conference. Chair (2005) Technical Committee and member of the Organizing Committee and, Chair (2006) Conference Steering Committee.
- Participated in the Training of academic staff on writing of a winning scientific proposal 2005.
- Appointed a Judge (2000) for the KARI Biennial Scientific Conference where I served for four terms. In the year 2006. Appointed the Chief Judge.
- Organizing Committee member of Conference on Africa Brain Gain Workshop, 2005 which initiated Kenyans in the Diaspora to invest in their country
- Was Chair of International Conference on Edible and Medicinal Mushrooms which was hosted at MMUST
- Initiator of the Horticultural Association of Kenya with its Publication Journal

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## **RESEARCH:**

### **Supervision of Postgraduate:**

- Have supervised and graduated over Fifteen (>15) PhD students to date, Over 30 (30) M.Sc students. Currently supervising 5 PhD and 3 M.Sc. students.

### ***BROAD RESEARCH INTERESTS AND PROJECTS***

- ✓ Have initiated, coordinated and/or participated in various research projects with fellow scientists that focus on environmental friendly applications of organic and biological organisms important for improved land productivity.
- ✓ Research in fruit, vegetables and flowers
- ✓ I have also a holistic approach in soil management and land productivity by including gender perspectives in the adoption of the developed agricultural technologies.
- ✓ **Currently** carrying out Field Performance Trials on improved Papaya varieties (gazette), which are resistant to Viral infection. The project is sponsored by **URF JKUAT**
- ✓ **Current** Principal Scientist on INSEFOODS Project where MMUST is a Centre of Expertise. The project is sponsored by **WORLD BANK**

### ***Research areas***

- Role of legumes in Soil fertility management
- Physiology of horticultural crops, production, maturation, harvest and post-harvest treatments and storage
- General agronomic requirements and environmental quality management of horticultural crops
- Efficient nutrient uptake by fruits, vegetables and tree transplants crops in otherwise nutrient deficient production systems using symbiotic mycorrhizal fungal inoculation
- Use of organic fertilizers such as Biological Nitrogen Fixation, Mycorrhizal application and use of Phosphate rock in sustainable cropping systems

## **PUBLICATIONS:**

### **Local and international Journals where published (among others)**

- Agronomy Journal
- Postharvest Biology and Technology Journal

- Journal Japan. Soc. Sci.
- African Crop Science Journal
- International Plant Propagators' Society
- Journal of Agriculture and Technology
- Japanese J. Hort. Science
- EAAFRO

### ***JOURNAL SELECTED FEW ARTICLES***

1. Wanyama D. O., **L. S. Wamocho**, K. Ngamau and R.N. Ssonkko. 2006. Effect of Gibberrellic Acid on growth and fruit yield of green-house grown Cape Gooseberry. African Crop Science Journal. vol. 14. No. 4, pp. 319-323, 2006. ISSN 1021-9730/2006. only published in the 2008 issue
2. Kasaku Kuwada. **Leonard Samita Wamocho**, Masaru Utamura, Itaru Matsushita and Takaaki Ishii 2006. Effect of Red and Green Algal Extracts on Hyphal Growth of Arbuscular Mycorrhizal Fungi, and on Mycorrhizal Development and Growth of Papaya and Passion Fruit. American Society of Agronomy. Agron. J 98: 1340 – 1344
3. Shiomi S., **Wamocho L. S.** and Agong S. G. 1996. Ripening characteristics of purple passion fruit on and off the vine. Postharvest Biology and Technology Journal 7: 161-170.
4. Shiomi S., Kubo Y., **Wamocho L. S.**, Koaze H., Nakamura R. and Inaba A. 1996. Postharvest ripening and ethylene biosynthesis in purple passion fruit. Post-harvest Biology and Technology Journal 8: 199-207
5. **Wamocho L. S.**, 2001. Deciduous fruit tree germplasm in Kenya. Acta Horticulture 565. ISHS Commission Tropical and Subtropical Horticulture Working Group on Temperate Zone Fruits in the Tropics and Subtropics. 45-47
6. Saha, H.M., **L.S. Wamocho**, F.K. Lenga, and J.G. Mureithi. Effect of mucuna plant density and time of intercropping with maize on performance of the crop components and crop-mixture.
7. Saha, H.M., **L.S. Wamocho**, F.K. Lenga, and J.G. Mureithi *Ground cover, weed infestation, and performance of maize under maize-legume intercropping systems. Accepted at EAAFRO Journal 2008*

- 8 .Saha, H.M., J.G. Mureithi, F.K. Lenga and **L.S. Wamocho**. Varying legume plant density and staggering the planting of maize and mucuna to maximize the benefit of the maize-mucuna intercropping system. Submitted to Tropical and Subtropical Agroecosystems Journal. Accepted 2008.
9. Ishii T., K. Kuwada, **L. S. Wamocho**, I. Matsushita and K. Kadoya. 1998. Effects of algal extracts applied to the soil on vesicular-arbuscular mycorrhizal development and growth of papaya seedlings and passion fruit cuttings. J. Japan. Soc. Hort. Sci. 67. (Suppl. 2) 230.
- 10 . **Wamocho, L. S.**, K. Yamashita and T. Ishii. 1997. Effect of charcoal application and vesicular-arbuscular mycorrhizal inoculation on vine growth, fruit development and quality of passion fruits grown in the field. J. JapanSoc. 66(Suppl. 2): 20-21.
11. Ingram D L., **Wamocho L. S.** and Dehgan B. 1984. Interactive effects of IBA with sulphuric acid, sodium hydroxide or wounding on rooting of *Raphiolepis indica* Lindl. stem cuttings. The Plant Propagator J. 30 (1) : 2-4
12. **Wamocho L. S.**, Yamashita, K. and Ishii, T. 2000. The distribution and ecological aspects of vesicular-arbuscular mycorrhizal fungi in Kenya. J. Japan. Soc. Hort. Sci. 66(Suppl. 2): 22-23.
13. Takaaki Ishii, Isao Matsumoto, Yogesh Hari Shrestha, **Wamocho, L. S.** and Kazuomi Kadoya. 1998. Observation of vesicular-arbuscular mycorrhizal formation in the roots of some seasonal weeds proliferated in citrus orchards. J. Japan. Soc. Hort. Sci. 67(4): 556  
558. 1998.
14. Kuwada K. T. Ishii, I. Matsushita, **L. S. Wamocho**, I. Matsumoto, and K. Kadoya. 1998. Effect of algal extracts on the hyphal growth of vesicular-arbuscular fungi. Suupl. J. Japan. Soc. Hort. Sci. 67(1) 36-47.
15. Ishii T., M. Kuramoto, N. Nakamura, M. Yano, J. Aikawa, **L. S. Wamocho**, I. Matsumoto and K. Kadoya. 1998. Growth stimulatory substances for vesicular-arbuscular mycorrhizal fungi in citrus juice sediment extracts. Suppl. J. Japan. Soc. Hort. Sci. 67(1) 36-47.
16. Aikawa, J; T. Ishii, **L. S. Wamocho**; Matsumoto, and K. Kadoya. Effect of Putrescine and Alginate Oligosaccharide applied to the soil on vesicular – arbuscular

mycorrhizal formation in roots of passion fruit and avocado. Suppl. Japan. Soc. Hort. Sci. (1) 1998 (Fruit Trees)

17. Saha, H.M., F.K. Lenga, **L.S. Wamocho**, and J.G. Mureithi. Effect of legume plant density and time of intercropping legume with maize on the economic benefit of maize-mucuna intercropping systems.. Submitted to EAAFR0 Journal 2008.

18. Aikawa, J; T. Ishii, M. Zeng, N. Nakamura, M. Yano, K. Sano, S. Kirino, **L. S. Wamocho**; I. Matsumoto, and K. Kadoya. 1998. Effect of citrus juice sediment extracts applied with sprinkler irrigation system on the root colonization and the spore number vesicular – arbuscular mycorrhizal fungi in a citrus Iyo orchard. Suppl. Japan. Soc. Hort. Sci. 67(1) 1998 (Fruit Trees) 44 – 45.

19. T. Ishii, M. Kuramoto; N. Nakamura; M. Yano; K. Sano; Aikawa, J; **L. S. Wamocho**; I. Matsumoto, and K. Kadoya. 1998. Growth stimulatory substances for vesicular – arbuscular mycorrhizal fungi in citrus fruit juice sediment extract. Suppl. Japan. Soc. Hort. Sci. 67(1) 1998 (Fruit Trees) 45 – 46.

20. Aikawa, J; T. Ishii, K. Ogata; **L. S. Wamocho**; I. Matsumoto and K. Kadoya. 1998. Effect of Putrescine and Alginate Oligosaccharide applied to the soil on vesicular – arbuscular mycorrhizal fungi formation in the roots of passion fruit and avocado. 47-48

#### **PhD STUDENTS SUPERVISED SINCE PROMOTION TO PROFESSOR 2009**

1. Prof. Arnold Watako.....Professor - JOUST
2. Dr. Alice Muriithi.....Lecturer - JOUST
3. Dr. El Joy Muchemi.....Lecturer – Technical University of Kenya
4. Dr. Richard Wekesa.....Principal – Bukura Agric Col.
5. Dr. Otanga..... Lecturer - MMUST
6. Dr. James Abila..... Lecturer - Rongo University

#### **CONFERENCES / SEMINARS / WORKSHOPS / Colloquium**

1. Global Status, Impact and Future of Biotech Crops. A Seminar held at University of Nairobi on February 13, 2009.
2. Horticultural Association of Kenya (HAK) workshop, 2008. Masinde Muliro University of Science and Technology (MMUST), Kakamega, Kenya. December 2008
3. Omukoko,C.A. ,Wesonga J.M. ,Kahangi ,E.M. and **Wamocho,L.S.** 2008. Pathogenicity of isolates of *Beauveria bassiana* to the Banana weevil *Cosmopolites sordidus*
3. 2008 JKUAT Scientific, Technological and Industrialisation Conference. 4 – 5 December 2008.

4. Stake holder's workshop on the evaluation of socio – economic benefits of meteorological information and services in the agricultural sector in Kenya. Nairobi, Kenya, 25 September 2008
5. Hortec 2008. Nairobi, Kenya 5<sup>th</sup> – 7<sup>th</sup> November 2008.
6. Watako, A. O., K. Ngamau, **L. S. Wamocho**. Effects of low, non-freezing temperature pre-treatment of Tuberose (*Polianthes tuberosa* L.) bulbs on emergence and subsequent flowering. Proceedings of 2006 JKUAT scientific, technological and industrialization Conference. Nairobi, Kenya. 26<sup>th</sup> – 27<sup>th</sup> October 2006. 230 – 237.
7. Wanyama D. O., K. Ngamau, **L. S. Wamocho**, R. N. Ssonko. Quality attributes of parthenocarpic fruits of Cape Gooseberry (*Physalis peruviana* L.). Proceedings of 2006 JKUAT scientific, technological and industrialization Conference. Nairobi, Kenya. 26<sup>th</sup> – 27<sup>th</sup> October 2006.
8. Watako, A. O. **L. S. Wamocho**, K. Ngamau. Irrigation scheduling and dormancy management of *Polianthes tuberosum* during cropping. Proceedings of 2006 JKUAT scientific, technological and industrialization Conference. Nairobi, Kenya. 27<sup>th</sup> – 28<sup>th</sup> October 2005. 198 – 203.
9. Stake holder's workshop on agricultural education and training in Kenya. Kenya school of monetary studies. 30<sup>th</sup> November to 1st December 2006.
10. **L. S. Wamocho**. Use of charcoal in media enhances mycorrhisation in passion fruit *Passiflora edulis* Sims, promotes fruit quality and growth of the vine. Proceedings of 2006 JKUAT scientific, technological and industrialization conference. Nairobi, Kenya. 27<sup>th</sup> – 28<sup>th</sup> October 2005.
11. Role of HELB in enhancing access to higher education. HELB consultative workshop – Kenya. School of Monetary Studies. 9<sup>th</sup> – 11<sup>th</sup> 2003.
12. **Wamocho L. S.**, F. K. Ombwara. 2000. Deciduous fruit tree Germplasm and their cultivation in Kenya. International Society for Horticulture Science.

#### **TECHNICAL NEWSLETTERS**

1. H M Saha, **L. S. Wamocho**, F. K. Lenga and J. G. Mureithi. 2003. Effect of velvet bean (*Mucuna pruriens*) density and time of intercropping on the performance of maize

in coastal lowland Kenya. Legume Research Network Project Newsletter. Issue No. 10. Pp. 2 – 7.

## PROFESSIONAL MAGAZINES

Tulyenge E. and **L. S. Wamocho**. Solid waste management in Webuye. NJIWA. Magazine of the Eastern Africa Environmental Network. Vol. 2 July 2004.

## ABSTRACTS FEW SELECTED

1. Omukoko, C.A., Wesonga J.M., Kahangi E.M. AND **Wamocho L.S.** Virulence of three strains of *Beauveria bassiana* against the Banana weevil. Horticulture Association of Kenya (HAK) 2008 Workshop. Masinde Muliro University of Science and Technology, December 2008.
2. Omukoko C A, Wesonga J Wesonga and **L S Wamocho**. Potential for utilization of entomopathogenic fungus *Beauveria bassiana* for control of banana weevils. Horticulture Association of Kenya (HAK) 2008 Workshop. Masinde Muliro University of Science and Technology, December 2008.
3. Mbaka J, **Wamocho L S**, Turoop L and Waiganjo M M. The occurrence of *Phytophthora cinnamomi* Rands associated with root rots of Macadamia in Kenya. 11<sup>th</sup> KARI Biennial Scientific Conference and the 3<sup>rd</sup> Agricultural Forum. 10 – 14 November 2008
4. Mbaka J, , Turoop L, Waiganjo M M and **Wamocho L S**. *In vitro* inhibition of *Phytophthora cinnamomi* Rands associated with root rots of Macadamia in Kenya by selected fungicide formulations. 11<sup>th</sup> KARI Biennial Scientific Conference and the 3<sup>rd</sup> Agricultural Forum. 10 – 14 November 2008
5. Muriithi A N, **L S Wamocho** and J B M Njoroge. Small holder cut flower growers supply value chain and its influence on Tuberose *Polianthes tuberosa* L cut flower production sustainability. 11<sup>th</sup> KARI Biennial Scientific Conference and the 3<sup>rd</sup> Agricultural Forum. 10 – 14 November 2008
6. **Wamocho L. S.** and F. K. Ombwara. 2000. Deciduous fruit tree Germplasm and

Their cultivation in Kenya. VI International Symposium on Temperate Zone Fruit Production in the Tropics and Sub-tropics. International Society for Horticulture Science. Queretaro, Mexico, 14-16 June, 2000.

## **RESEARCH FUND RAISING EFFORT**

Have in collaboration with colleagues the following research projects that attracted funds as shown below whereby equipment and chemicals worth millions of shillings in the department. Besides, several Kenyans benefited through training at Ph.D. and MS, Technical levels. Some proposals are under review

1. 1985-1988. USAID. Mycorrhiza to enhance BNF in Cowpea.
2. 1992-1993. JICA. Distribution of horticultural crops and their production potential for Western Province, Kenya.
3. 1993-1994. JICA. Investigation on the physiological and pathological postharvest behaviour of passion fruit (*Passiflora edulis* Sims).
4. 1994-1995. JICA. Ripening characteristics of purple passion fruit on and off the vine.
5. 1994-1995. JICA. Post-harvest ripening and ethylene biosynthesis in Passion fruit.
6. 1998-1999. JICA. Use of mycorrhizal fungi in the domestication and production of
7. Cape Gooseberry (*Physalis peruviana*).
8. 1999-2000. Rockefeller. Assessment of maize-legume yield improvement in Eastern and Western Kenya by use of Rock phosphate solubilizing agents. in collaboration with Kenyatta University. Preliminary studies.
9. 2001- 2004. Rockefeller. Assessment of maize-legume yield improvement in Eastern and Western Kenya by use of Rock phosphate solubilizing agents. (JKUAT) in collaboration with Kenyatta University. Main research proposal under review.
10. 2001 – 2002: IDRC. Funds from African Technology Policy Studies Network (ATPS) Research. Technology and Policy Constraints in The Small Scale Horticulture Production, Preservation and Processing in Kenya. Collaborating scientists; Mr. A. O. Makokha (P. I.) and Mr. P. Sichangi.
11. 2007. Mass production of virus free female and hermaphrodite papaya (*Carica papaya* L.) seedlings for Kenyan farmers. F. K. Wanzala (PI). Collaborating scientists, L. S. Wamocho, Arnold Onyango and Ateka.

12. 2008. Industrial development of papaya (*Carica papaya* L.): Mass production and value addition of improved papaya fruit cultivars. F K Wanzala, L S Wamocho
13. 2008. Development of a compost based bio-fertilizer products for fruit, vegetables and tree nursery transplants and intensive garden and fruit orchards L. S. Wamocho. P I (GlobalHort). Submitted.
14. Restoration of soil fertility in tobacco and *sukuma wiki* production plots using green manure and phosphate rock for sustainable productivity.

## **CONSULTANCY**

1. D. E. Ouma, **L. S. Wamocho**, G. Kigathi. 1991 for the Division of Research and Extension, Egerton University. Polythene manufacture project. A feasibility study submitted to Farmchem Ltd.
2. **L. S. Wamocho** and E. M. Njue. 1992. Floricultural production project. Submitted to Super Foam Ltd. Ruiru.
3. **L. S. Wamocho**. 1994. Green Thumb Horticultural Nurseries. A project proposal to help in the commercialisation of horticultural crop production and better environmental and social welfare of the communities in Western Kenya.
4. **L. S. Wamocho**, Technical consultant. Horticulture and Outside Irrigation. 1994. A project initiated by joint Jomo Kenyatta University of agriculture and Technology in collaboration with DIDATECH, a French company to commercialize horticulture at the Nikanini farm of the institution.
5. E. Kakai and **L. S. Wamocho**. 2000. Matungu Paper and Board Mills Project. A bagasse based Paper and Board Mills Ltd. Co. to be based in Western province sugar belt with the aim of utilising sugar cane waste product (bagasse) for the manufacture of paper and board products. Under review.
6. Minjingu organic natural hyper – phosphate fertilizer. Laboratory analysis to verify efficacy.

## **EDITORSHIP**

1. **Chief editor.** 1992. Proceedings on, “Seminar on Meeting the National Seed and Planting Material Needs of Kenyan Agriculture for The Year 2000”.
2. **Co-editor.** 1998. Proceedings on “National Horticulture Seminar”. January 29-30, 1997, Nairobi, Kenya.
3. **Co-editor.** Training manual. 1999. Applied plant propagation technology in horticultural crops. 3<sup>rd</sup> Country Training Programme.
4. **Editor.** Manual for Horticultural Crop Production and Marketing in Kenya. Year 2000. Requested by Horticultural Crops development Authority (HCDA).
5. **Member.** Proceedings of JKUAT Scientific, Technological and Industrialisation Conference

## **PROFESSIONAL SERVICE TO ORGANIZATIONS**

1. The Kenya Agricultural Research Institute (KARI) Horticultural Research Crops Working Group (Stake Holders).
2. Organizing Secretary; National Horticultural Seminar Steering Committee (1996-1999)
3. National Farming Systems Priority Setting Committee, Kenya Agriculture Research Institute, Kenya
3. National Council for Science and Technology, Ministry of Science and Technical Training, Kenya
4. Centre Research Advisory Committee (CRAC) for the National Horticultural Research Centre
5. Steering Committee Membership; National Agroforestry Steering Committee, National Council for Science and Technology
7. Integration of Fruit Trees Crops into Farming Systems Project: GTZ

8. Webuye Environmental Awareness Group. One of the founder members of a Community Based Organisation (CBO) concerned with environmental issues affecting residents of Webuye township and its vast rural communities.

### **OTHRs**

1. Horticulture Task Force – Kakamega County
2. Fish Value Chain – Kakamega County (KAPAAP) Ministry of Agric.
3. Dairy Value Chain - Kakamega County (KAPAAP) Ministry of Agric.
4. Recruitment for Professors Board Member – Kibabii University
5. Recruitment of County Chief Officers – Trans Nzoia County
6. Shikusa Borstal Institution. Gazetted Board Member
7. Board of Management of Secondary School (Several including being Chairman of most of them.
8. Founder member and Chair of Sitikho Vocational Training Centre.
9. Technical Expert for the Ministry of Science and Technology Survey tour (France 1994)

### **PARTICIPATION AT KEY TECHNICAL/PROFESSIONAL FORUMS.** (Selected few)

1. Application of Mycorrhizal Fungi in Crop Production. Feb. 22-23, 1984, University of Florida, Gainesville, USA
2. The 6th North American Conference on Mycorrhiza. June 28-30th, 1984, Bend, Oregon, USA
4. 10th North American Rhizobium Conference. August 11-17th, 1985, Hawaii, USA
5. African Association for Biological Nitrogen Fixation Conference. July 23rd-27th, 1985, Nairobi, Kenya

6. The role of Tissue Culture and Novel Genetic Technologies in Crop Improvement. International Plant Biotechnology Network (IPBNet).Third Conference. January 8  
12, 1989, Nairobi, Kenya
7. The 1<sup>st</sup> National Horticultural Seminar. January 29-30, 1997, Nairobi, Kenya
8. The XIII International Plant Nutrition Colloquium. 13-19 Sept., 1997, Tokyo, Japan
9. The 66<sup>th</sup> Japanese Horticultural Congress (Autumn). October 11-13, 1997, Nagoya, Japan
10. The 7<sup>th</sup> Japanese Mycorrhiza Symposium. November 15, 1997, Kyoto, Japan
11. The 2<sup>nd</sup> International Conference on Mycorrhiza (ICOM 2) July 5-10, 1998, Uppsala, Sweden
12. The 2<sup>nd</sup> National Horticultural Seminar. January 29-30, 1997, Nairobi, Kenya
13. 9<sup>th</sup> European Congress on Biotechnology. Brussels, Belgium 11-15 July, 1999
14. VI International Symposium on Temperate Zone Fruit Production in the Tropics and Sub-tropics. International Society for Horticulture Science. Queretaro, Mexico, 14-16 June, 2000.
15. 7<sup>th</sup> KARI Biennial Scientific Conference. 13 to November 2000. Kenya Agriculture Research Institute, Loresho. Participated as a **Judge**.
16. Mango and Macadamia Planning Committee Workshop. 18.04.2001. Kenya Agriculture Research Institute, Loresho.
17. 8<sup>th</sup> KARI Biennial Scientific Conference. 13 to November 2002. Kenya Agriculture Research Institute, Loresho. Participated as a **Judge**.
18. 9<sup>th</sup> KARI Biennial Scientific Conference. 13 to November 2004. Kenya Agriculture Research Institute, Loresho. Participated as a **Chief Judge**.
19. 10<sup>th</sup> KARI Biennial Scientific Conference. 13 to November 2006. Kenya Agriculture Research Institute, Loresho. Participated as a **Judge**.
20. Key role as initiator of the JKUAT Annual Scientific, Technological and Industrialization Conference

21. Chairman, Technical Committee. The 2005 JKUAT Scientific, Technological and Industrialisation Conference
22. Chairman, Steering Committee. JKUAT Scientific, Technological and Industrialisation Conference

## **EXTERNAL EXAMINATION**

- **Programmes**

1. Department of Horticulture, Maseno University (M.Sc. & B.Sc.)
2. Crop Science, University of Nairobi (Master theses)
3. Horticulture Egerton University (Masters)
4. Kenyatta University (Masters)

- **Theses**

I have examined several theses for Ph. D and M. Sc. Students of the following Universities

- a. University of Nairobi
- b. Egerton University
- c. Jomo Kenyatta University of Agriculture and Technology
- d. University of Eldoret
- e. Maseno University
- f. Kenyatta University