



CURRICULUM VITAE

1. PERSONAL DATA

NAME	Professor Ratemo Waya Michieka, Ph.D., M.Sc., EBS, SS, KNAS
ADDRESS	Department of Plant Science and Crop Protection P.O. Box 66527 – 00800, Westlands, Nairobi
EMAIL	ratemo.michieka@uonbi.ac.ke / michiekar@gmail.com
TEL	+254 725 972 872
DATE OF BIRTH	8 th April, 1950
SEX	Male
MARITAL STATUS	Married – 4 children
NATIONALITY	Kenyan
PROFESSION	Agronomist – Weed Scientist – Environmental Expert
PRIOR POSITIONS	Founding Vice-Chancellor of the Jomo Kenyatta University of Agriculture and Technology (JKUAT) Director General – National Environment Management Authority (NEMA)
CURRENT	Professor, Faculty of Agriculture and Veterinary Sciences, University of Nairobi Honorary Secretary, Kenya National Academic of Sciences (KNAS)
AREA OF EXPERTISE	<ul style="list-style-type: none">- Agricultural Sciences: Weed and Crop Protection- Environmental Sciences

2. EDUCATION

1966-1969	Kisii High School, Kisii County 2 nd Division, CSC
1971-1973	Rutgers University, New Brunswick, New Jersey, USA Graduated (Degree): B.Sc. – Agriculture and Environmental Sciences
1973-1974	Rutgers University, New Brunswick, New Jersey, USA Graduated (Degree): M.Ed. – Agricultural Education and Vocational Technical Agriculture
1974-1978	Rutgers University, New Brunswick, New Jersey, USA Graduated (Degree): PhD – Weed Science Thesis Title: Fall Panicum (<i>Panicum dichotomiflorum</i> Michx) Competition and Control in Soyabeans (<i>Glycine max.</i> (L) merr)
2010	Galilee International Management Institute, Israel Graduated (Degree): Diploma – Environment Management from Galilee International Management Institute, Israel

3. EMPLOYMENT

1975 – 1978	Research Graduate Assistant Department of Soils and Crops Rutgers University, New Brunswick, New Jersey, USA
1978-1980	Postdoctoral Research Fellow International Institute of Tropical Agriculture (IITA) Ibadan, Nigeria
1980-1987	Lecturer Department of Crop Science, Faculty of Agriculture University of Nairobi, Kenya
1987-1989	Chairman Department of Crop Science, Faculty of Agriculture University of Nairobi, Kenya
1988-1989	Associate Professor of Weed Science Department of Crop Science, Faculty of Agriculture University of Nairobi, Kenya
1990-1992	Associate Professor and Deputy Principal (Academic Affairs) Jomo Kenyatta University College of Agriculture and Technology (JKUCAT) Nairobi, Kenya
1992-1994	Principal Jomo Kenyatta University College of Agriculture and Technology (JKUCAT) Nairobi, Kenya
1994-To Date	Professor University of Nairobi
1994-2013	Vice-Chancellor Jomo Kenyatta University of Agriculture and Technology (JKUAT)

1993-2003	Nairobi, Kenya Board Member National Council for Science and Technology
1995-2011	Member of Governing Council African Centre for Technology Studies (ACTS)
1995-1996	Chairman, Vice-Chancellor Committee Joint Admissions Board (JAB)
1995-2002	Chairman Kenya Agricultural Research Institute Board of Management (KARI)
2003-2006	Director General National Environment Management Authority (NEMA)
2008-2010	Chairman African Centre for Technology Studies (ACTS)
2010 – To date	Honorary Secretary Kenya National Academic of Sciences (KNAS) 2013-2017 Chairman Kenyatta University Council

4. POSITIONS AND RESPONSIBILITIES AT THE UNIVERSITY AND THE NATION

(i) Teaching in one academic year

- (a) Communication Skills and Seminars (Diploma)
- (b) Crop Protection – Weed Science (Bachelor)
- (c) Crop Production – Agricultural Engineers (Bachelor)
- (d) Crop Physiology and Ecology (Postgraduate)
- (e) Weed Science (Postgraduate)
- (f) Food Production ANP 9 (Postgraduate)
- (g) Principles of Environmental Management and Protection (Bachelor & Postgraduate)
- (h) Environmental Law and Policy (Bachelor)

(ii) Responsibilities

- (a) 1980-1982 Secretary, Farm Practice Committee, Faculty of Agriculture
- (b) 1982-1986 Chairman, Farm Practice Committee, Faculty of Agriculture
- (c) 1986-1989 In-charge of Postgraduate Students, Training and Extension for Crop Science Department
- (d) 2010-2012 Chairman of Research Training and Seminar Committee
- (e) 2006-To Date Member of Environmental Committee, CAVS
- (f) 2006-2012 Chairman, Faculty of Agriculture Alumni, CAVS
- (g) 2003-2006 Member of Compliance Committee on Climate Change, UNFCC – Kyoto Protocol
- (h) 2003-2006 Member of Several Negotiating Committee on Environmental Task Forces
- (i) 2003-2006 Board Member of Nairobi School
- (j) 1994-2000 Chairman, Kenya Agricultural Research Institute (KARI)
- (k) 1990-2002 Member, National Council of Science and Technology (NSCT)
- (l) 1990-2000 Member, Commission for Higher Education (CHE)
- (m) 1994-1996 Member, Higher Education Loans Board (HELB)

(iii) National, Regional and International Responsibilities

- (a) 1981-1985 Examined for Kenya Examination Council
- (b) 1983-1987 Appointed a member of a Task force on *Striga hermontheica* Control in Kenya (Ministry of Agriculture)
- (c) 1986-1990 Board Member of Kenya Marine and Fisheries Institute (KEMFRI)
- (d) 1980-1985 Secretary, Weed Science Society of Eastern Africa
- (e) 1985-1989 Chairman, Weed science Society of Eastern Africa
- (f) 1983-1985 Vice-Chairman, Kenya Agricultural Teachers Association (KATA)
- (g) 1985-1989 Chairman, Kenya Agricultural Teachers Association (KATA)
- (h) 1984-1989 Member, Advisory Board for FAO on Weed Management in Developing Nations

- (i) 1985-1987 External examiner, Sokoine University of Agriculture, Morogoro, Tanzania
- (j) 1990-2003 Member, Commission for Higher Education. Charing Equations and Qualifications Committee
- (k) 1992-1997 Member, World Bank Universities Investment Project (UIP)
- (l) 2013 – To Date Member, Commission for University Education (CUE) Taskforce

5. EXPERIENCE

1. Founding Vice-Chancellor of the Jomo Kenyatta University of Agriculture and Technology – *13 years of service*
2. Patron, Japan Ex-Participants, JEPAK, personnel who have returned to Kenya after their training in Japan – *Ongoing*
3. Founding member of Universities linking in Science, Humanities Program for Africa (USHEPIA) 1995 – *Ongoing*
4. Funded by Carnegie, Mellon Kellogg, Rockefeller, and Ford. The program links 8 universities in Sub-Saharan Africa with the Headquarters in University of Cape Town.
5. Initiated Chair, the Kenya Education Network (KENET); which involved many institutions and Communications Commission of Kenya (CCK)
6. Initiated several research projects while at the University of Nairobi, Faculty of Agriculture, funded by IDRC and World Bank. The projects included Environmental Protection, Agro Forestry Developments, and Rehabilitation of Ngong Mountain Range.
7. Supervised to completion several M.Sc. and PhD students in multidisciplinary Programmes: Agronomy, Weed Science, Agro Forestry, Environmental Sciences, and Soil Science.

8. A highlight of the projects initiated under my guidance that attracted substantial funding for both personnel and physical development:

8.1. Japan International Cooperation Agency (JICA)

- Over twenty years of collaboration funding at the Jomo Kenyatta University of Agriculture and Technology (JKUAT)
- Technical cooperation and training of technicians and Postgraduate students
- Trained of several women groups on various methods of agricultural production towards poverty alleviation strategies, in arid and semi-arid regions of Kenya
- Conducted courses for the South-to-South Cooperation for African Scientists from COMESA countries including Kenya, Tanzania, Uganda, Zambia, Malawi, Rwanda, Burundi, Swaziland, Lesotho, Botswana, Zimbabwe, Ethiopia, Eritrea and Sudan

- 8.2. *Africa Institute for Capacity Development (AICAD) (2000-2020)*
- Project supported by Japan International Cooperation Agency (JICA) for Jomo Kenyatta University of Agriculture and Technology (JKUAT)
 - Funded and initiated by JICA and partner states (Kenya, Uganda, Tanzania, Rwanda, and Burundi)
 - Regional centre for the Sub-Saharan Africa; located within JKUAT
 - A true reflection of high-level regional cooperation in the promotion of research in various disciplines covering agricultural development, environmental conservation, and poverty reduction
- 8.3. *German Academic Exchange Program (DAAD)*
- Cooperation between the German Exchange Program and respectively the University of Nairobi and the Jomo Kenyatta University of Agriculture and Technology (JKUAT)
 - Thrust of training in agricultural and environmental related fields
 - Excellent training linkage for university staff and postgraduate students
- 8.4. *United States Agency for International Development (USAID)*
- Research programs
 - Consultations on agro forestry and environmental degradation
 - Surveys of fauna and flora in Tsavo National Park
 - Surveys on the nutritional status of Kenyan children; in collaboration with the Ministry of Agriculture, Department of Nutrition and Food Security
- 8.5. *CIMMYT*
- Research and training programmes for Scientists in Zimbabwe and Zambia
 - Research capability for Kenya Agricultural Research Institute (KARI)
- 8.6. *World Bank*
- Research projects with respectively Kenya Agricultural Research Institute (KARI), National Agricultural Research Program (NARP), and Universities
 - Trained high calibre manpower
- 8.7. *UNESCO*
- Funding from UNESCO on Biotechnology in 2001 to support training and research at the Jomo Kenyatta University of Agriculture and Technology (JKUAT)
 - Creation of a UNESCO Chair at JKUAT
- 8.8. *International Development Research Centre Canada (IDRC)*
- Research projects
 - Training of postgraduate students
- 8.9. *Food and Agricultural Organization (FAO)*
- Research on crop protection and nutrition programmes for Kenya
 - Journal publications on Weeds of East Africa in both English and Kiswahili
- 8.10. *CARE (Kenya)*
- Research project completed in Comoros Islands on the afforestation of the islands
9. *Other International Organisations that I have linkages with/worked for:*
- Association of American Universities and Colleges
 - Association of Commonwealth Universities
 - International Association of Universities Paris, France
 - Inter University Council for East Africa, Kampala, Uganda: former Chairman

6. FUNDED RESEARCH

- (i) *Cultural and Chemical Control of Weeds in Crops*
By the National Council for Science and Technology (NCST)
- (ii) *Control of Oxalis latifolia H.B.K.*
By the National Council for Science and Technology (NCST)
- (iii) *Minimum (Conservation) – Tillage Research in arid and semi-arid areas of Kenya*
By the International Development Research Centre (IDRC)
- (iv) *Integrated Pest Management Project*
By the Commonwealth Secretariat
- (v) *Task Force on Striga hermonthica in maize, sorghum and sugarcane*
By the Ministry of Agriculture

7. POSTGRADUATE SUPERVISION

1. Kallunde Pilly Sibuga. 1985. PhD in Weed Science. “*Weed control in beans by pre-emergence herbicides, their effects on nodulation and persistence in soils*”. 1st supervisor, complete on time.
2. Cheruiyot Chelule R. 1981. M.Sc. “*Agro-ecological study of weeds in the Kenyan rice fields*”. 2nd supervisor, completed on time.
3. Otaya, E.B. Balah. 1983. M.Sc. “*The effect of weeds on growth and yield of beans (Phaseolus vulgaris)*”. 2nd supervisor, completed on time.
4. Mumera, Lewis. 1981. M.Sc. “*The pathogenicity and control of Striga hermonthica in maize, sorghum and sugarcane in Kenya*”. 2nd supervisor to Penn State University. 1st supervisor, completed on time.
5. Wanjala, Ben Wafula. 1981. M.Sc. “*The effect of some pre-emergence herbicide on broadleaf weeds in field beans (Phaseolus vulgaris L.) Canadian Wonder*”. 1st supervisor, completed on time.
6. Oryokot, Joseph, O.E. 1984. M.Sc. “*Use of low dosage pendimethalin in combination with supplementary weeding in maize and beans intercrop*”. 1st supervisor, timely completion.
7. Baraza, Okinyi, E. 1985. M.Sc. “*Studies on mixtures of cotton and beans with special reference to planting arrangement*”. 1st supervisor, completed but late.
8. Bango, Silvanus. 1986. “*Effects of some pre-emergence herbicides on weed control in cotton*”. 1st supervisor, completed but late.
9. Olango, Vitalis. 1987. M.Sc. “*A comparison of two tillage systems in bean production*”. 1st supervisor, completed on time.
10. Ariga, Safary, E. 1986. M.Sc. “*The effect of farm-yard manure on chemical weed control in field beans*”. 1st supervisor, timely completion.
11. Ngugi, Michael. 1987. M.Sc. “*The effect of some tillage methods and subsequent weed control in maize production*”. 1st supervisor, timely completion.
12. Ngode, Lucas 1987. M.Sc. “*Studies on control of Oxalis latifolia H.B.K. in coffee*”. 1st supervisor, completed on time.
13. Maina, Jedidah, M. 1987. M.Sc. “*Economic analysis of two tillage systems in maize production*”. 1st supervisor, completed on time.
14. Karinge, Peter, G. 1988. M.Sc. “*A study of the potential of alley-cropped Caliandra calothyrsus as an improvement resource for soil improvement, fodder and fuel-wood production under subsistence production systems in Kenya*”. In conjunction with IITA. 1st supervisor, completed on time.
15. Karembu, Margaret. 1988. M.Sc. “*Agroforestry Multipurpose trees*”. 1st supervisor, completed on time.

16. Ita, Boniface Nyaga. 2012. M.Sc. “*Assessing the Effectiveness and Benefits of Conventional and Minimum Tillage on Weed Management in Maize (Zea mays L.)*”. 1st supervisor, completed on time.
17. Kosgei, Vincent. 2016. M.Sc. “*Weed Controlling Paddy Rise*”. 1st supervisor, completed on time.

8. ADVISORY AND EXTENSION SERVICES

- a) Member of Kenya Institute of Education: Agriculture and Science Panel
- b) Participate in advising farmers on various weed control methods in Kenya and Eastern Africa: Manual on Herbicides produced
- c) Efficacy trials on compounds for registration of chemical industries, Monsanto, S.D.S. Bio Tech etc.
- d) Participate in Non-Governmental Organizations in research e.g. KENGO, CBO, Youth Groups, etc.

9. EXTRA-CURRICULAR ACTIVITIES

1. In-charge of Postgraduate Training Research and Extension in Departmental Planning Committee
2. Participate in setting and marking National Examinations i.e. K.C.E.
3. Participate in moderating three diploma college examinations i.e. Siriba Teachers College, Moi Teachers College, and Kagumo Teachers College
4. 1983-1987: Elected member of CHUNA supervisory committee; formulated an investment body within CHUNA

10. CONSULTANCIES (SELECTED)

- a) Ministry of Agriculture (1985-1987): I served as an Agronomist Consultant for the Intensive Food Production and Utilization Programme. The study was part of poverty alleviation strategy. It was conducted by a group of scientists evaluating food production and utilization in two densely populated districts, Kiambu and Kakamega. A document was produced.
- b) African Development Economic Consultancy (1982-1984): I served as a Food Production/Agriculture Expert. The field survey in the Rift Valley was conducted as per determining the current status of agriculture and ways and means of improving the existing food production techniques in low potential areas of the valley. A document covering 154 pages was produced.
- c) African Development Economic Consultancy (1985): I served as a Farming System Expert. An evaluation of the Agroforestry Centre in Kenya was done.
- d) CARE-East Africa (1987): Technical expertise was sought to evaluate the current farming systems in Comoros Islands with a view of modifying it. CARE’s involvement was reviewed and recommendations were made. A comprehensive report was written.
- e) Ministry of Agriculture (1984): I served as Agronomist Expert in the survey of ox-drawn improvements in Kenya. All tools used by oxen, where and when, were evaluated and specific recommendations made. A document was produced.

- f) Swedish International Development Agency (SIDA) (1986): I was involved in the Kenya Renewable Energy Development Project. An evaluation was done and presented to the Community Forestry and Wood Fuel Development Consultants within the Ministry of Energy in Kenya. Sixty-nine page document was produced.
- g) International Institute of Tropical Agriculture (1986): I conducted the training for the Institutes in-service courses in Morogoro, Tanzania. The practice was to develop teaching and research methodologies for field staff.
- h) UNEP (2007): I was involved in training Kenyan Scientists. The aim was to strengthen capacity for negotiations for Biological Diversity Implementation on Access to Benefit Sharing (ABS) of Natural Resources.
- i) FAO (2000-2010): I conducted several projects and seminars on Food Security.

11. MEMBERSHIP IN PROFESSIONAL ORGANISATIONS

- a) Weed Science Society of America
- b) (Chairman) Weed Science Society of Easter Africa
- c) Crop Science Society of Kenya
- d) Advancement of Agricultural Sciences in Africa (AASA)
- e) Kenya Agricultural Teachers Association (KATA)
- f) International Weed Science Society
- g) Nature Kenya
- h) Inter-Academic Partnerships on the Role of Academies in Poverty Reduction
- i) International Biometric Society
- j) (Chairman) African Scientific Research and Innovations Council (ASRIC)

12. PARTICIPATION IN WORKSHOPS, CONFERENCES, AND SYMPOSIA LOCAL AND INTERNATIONAL (SELECTED)

1. 1981: Weed Science Society of America. Las Vegas, USA. (Paper presented)
2. 1983: Second Biannual West African Weed Science Society, Abidjan, Côte d'Ivoire (Paper presented).
3. 1982: FAO Plant Production and Protection. Improving Weed Management, Rome, Italy.
4. 1983: FAO/SIDA. Seminar on Field Crops, Nairobi, Kenya. (Paper presented).
5. 1983: IDS and Faculty of Agriculture. Soil and Water Conservation Workshop, Nairobi, Kenya (Paper presented).
6. 1981: 4th General Conference of Advancement for Agricultural Sciences in Africa, Cairo, Mariut, Egypt (Paper presented).

7. 1981: 8th Biannual East African Weed Science Society, Nairobi, Kenya (Papers presented).
8. 1983: 9th Biannual East African Weed Science Society, Nairobi, Kenya (Papers presented).
9. 1985: 10th Biannual East African Weed Science Society, Nairobi, Kenya (Papers presented).
10. 1987: 11th Biannual East African Weed Science Society, Nairobi, Kenya (Papers presented).
11. 1987: Commonwealth Science Council. Integrated Crop Protection for Small-scale Farms in Eastern and Central Africa, Embu, Kenya (Papers presented).
12. 1987: National Maize Agronomy Workshop, Nairobi, Kenya (Paper presented).
13. 1985: USAID/Ministry of Agriculture. Pesticides use in Kenya Workshop.
14. 1984: FAO/Ministry of Agriculture. Workshop on Improving Weed Management in Developing Nations. Nairobi, Kenya (Presented Paper).
15. 1984: CIMMYT Workshop on Farming Systems, Harare, Zimbabwe (Phase I).
16. 1985: CIMMYT Workshop on Farming Systems, Harare, Zimbabwe (Phase II).
17. 1985: International Labour Organization/Ministry of Agriculture. Workshop on Excess Manufacturing Capacity and Farm Equipment Needs in Kenya. Nairobi, Kenya (Paper presented).

13. PUBLICATIONS: From 1976 to Date

- Michieka, R. W., Ilnicki R. D., and Somody, J. (1976). Weed control in soybeans with Dinitroaniline herbicides followed by pre-emergence herbicides. *Proceedings of the Northeast Weed Sci. Soc.*, 30, 19-22.
- Ilnicki, R. D., Justin J. R., and Michieka, R. W. M. (1976). Combination of herbicides with Paraquat or Glyphosate for weed control in double-crop soybeans. *Proceedings of the Northeast Weed Sci. Soc.*, 30, 23-24.
- Michieka, R. W., Ilnicki R. D., and Somody J. (1976). The response of corn and annual weeds to some new herbicides used alone in combination with Atrazine or Alchlor. *Proceedings of the Northeast Weed Sci. Soc.*, 30, 46-47.
- Ilnicki, R. D., Michieka, R. W., and Somody, J. (1976). Weed control in potatoes with herbicides applied before and after planting. *Proceedings of the Northeast Weed Sci. Soc.*, 30, 247-248.
- Ilnicki, R. D., and Michieka, R. W. (1977). Weed control in corn with VEL 5052 and Buthiazone (VEL 5026) applied alone, and in combination with Atrazine or Alachlor. *Proceedings of the Northeast Weed Sci. Soc.*, 31, 15-19.

- Michieka, R.W., Ilnicki, R. D., Justin, J. R., and Zublena, J. (1977). Weed control in double-crop soybeans with herbicides applied alone and in combination with Paraquat or Glyphosate. *Proceedings of the Northeast Weed Sci. Soc.*, 31, 61-69.
- Michieka, R. W., Ilnicki, R. D., Justin, J. R., and Zublena, J. (1977). Response of Kenaf to some pre-emergence herbicides. *Proceedings of the Northeast Weed Sci. Soc.*, 31, 86-90.
- Ilnicki, R. D., Justin, J. R., and Michieka, R. W. (1977). The Effect of Dinitoaline herbicides on Kenaf. *Proceedings of the Northeast Weed Sci. Soc.*, 31, 93-97.
- Michieka, R. W., Ilnicki, R. D., and Somody, J. (1977). Weed control in potatoes with pre-plant incorporated herbicides applied alone in combination and with follow-up pre-emergence herbicides. *Proceedings of the Northeast Weed Sci. Soc.*, 31, 197-198.
- Ilnicki, R. D., and Michieka, R. W. (1977). The response of Snap beans and Lima beans to Dinitroaniline herbicides. *Proceedings of the Northeast Weed Sci. Soc.*, 31, 266-267.
- Ilnicki, R. D., and Michieka, R. W., and Somody, J. (1977). Effects of some pre-emergence herbicides and herbicides combinations on Snap beans and Lima beans. *Proceedings of the Northeast Weed Sci. Soc.*, 31, 268-269.
- Michieka, R. W., Somody, C. N., and Ilnicki, R. D. (1978). Weed control in field corn with Thiocarbamate herbicides with antidotes. *Proceedings of the Northeast Weed Sci. Soc.*, 32, 4-6.
- Frye, D. M., Michieka, R. W., Ilnicki, R. D., and Somody, C. N. (1978). Weed control in Soybeans with pre-plant incorporated Trifluralin, Oryzalin, Ethalfluralin, and Pendimethalin in combination with Metribuzin. *Proceedings of the Northeast Weed Sci. Soc.*, 32, 19-23.
- Michieka, R. W., Frye, D. M., Ilnicki, R. D., and Somody, C. N. (1978). Post-emergence applications of a new herbicide used in combination with adjuvants in Soybeans. *Proceedings of the Northeast Weed Sci. Soc.*, 32, 30-34.
- Somody, C. N., Michieka, R. W., Ilnicki, R. D., and Somody, J. (1978). Paraquat and Glyphosate in combination with herbicides for weed control in N-till corn. *Proceedings of the Northeast Sci. Soc.*, 32, 44-48.
- Somody, C. N., Michieka, R. W., and Ilnicki, R. D. (1978). Glyphosate and Paraquat in combination with herbicides for weed control in no-till double crop Soybeans. *Proceedings of the Northeast Weed Sci. Soc.*, 32, 52-55.
- Ilnicki, R. D., Frye, D. M., Michieka, R. W., and Somody, C. N. (1978). Weed control in four varieties of sweet corn with Atrazine and Cyanazine in combination with Metolachlor, Alachlor and Pendimethalin. *Proceedings of the Northeast Weed Sci. Soc.*, 32, 115-116.
- Michieka, R. W., Somody, C. N., and Ilnicki, R. D. (1978). The effects of two Atrazine formulations on the response of several varieties of sweet corn. *Proceedings of the Northeast Weed Sci. Soc.*, 32, 119-123.
- Somody, C. N., Michieka, R. W., Ilnicki, R. D., and Somody, J. (1978). The response of some sweet corn varieties to Thiocarbamate herbicides formulated with and without antidotes. *Proceedings of the Northeast Weed Sci. Soc.*, 32, 129-133.
- Michieka, R. W., Ilnicki, R. D., Somody, C. N., and Frye, D. M. (1978). Weed control in white potatoes with some pre-plant incorporated herbicides followed by drag-off cultivation. *Proceedings of the Northeast Weed Sci. Soc.*, 32, 177-180.
- Ilnicki, R. D., Michieka, R. W., Somody, C. N., and Frye, D. M. (1978). Weed control in transplanted tomatoes using combination of Metribuzin with Dihenamid or Trifluralin in several application schedules. *Proceedings of the Northeast Weed Sci. Soc.*, 32, 213-218.
- Frye, D. M., Ilnicki, R. D., and Michieka, R. W. (1978). Weed control in Southern Greens. *Proceedings of the Northeast Weed Sci. Soc.*, 32, 115-116.
- Michieka, R. W., and Ilnicki, R. D. (1979). Chemical control of Fall Panicum (*Panicum dichotomiflorum* Michx.) in Soybean (*Glycine max* (1) Merr.) with Acifluorfen, HOE 29152 and Bentazone applied alone in combinations. *Weed Sci. Soc. of America Abstracts*.

- Michieka, R. W., and Ilnicki, R. D. (1979). Effects of various densities of Fall Panicum (*Panicum dichotomiflorum* Michx.) on Soybeans (*Glycine max* (L) Merr.). *Weed Sci. Soc. of America Abstracts*.
- Ilnicki, R. D., and Michieka, R. W. (1979). Weed control corn (*Zea mays* L.) with some Thiocarbamate herbicides followed by Dicamba post-emergence. *Northeast Weed Sci. Soc.*, 33, 1-4.
- Michieka, R. W., and Ilnicki, R. D. (1979). Fall Panicum (*Panicum dichotomiflorum* Michx.) control in corn (*Zea mays* (L.) with several Post-emergence herbicides. *Northeast Weed Sci. Soc.*, 33, 5.
- Ilnicki, R. D., and Michieka, R. W. (1979). Some Post-emergence treatments following pre-emergence herbicides for weed control in Soybeans (*Glycine max* (L.) Merr.). *Northeast Weed Sci. Soc.*, 33, 18.
- Michieka, R. W., and Akobundu, I. O. (1979). Control of *Pennisetum purpureum* Schum in no-tillage maize (*Zea mays* L.). *9th Ann. Conf. Weed Sci. Soc. of Nigeria*, 75-79.
- Michieka, R. W. (1981). Evaluation of pre-emergence herbicides for weed control in maize (*Zea mays* L.) and beans (*Phaseolus vulgaris* L.). *8th Weed Sci. Soc. of East Africa*, 182-192.
- Michieka, R. W. (1981). Efficiency of some pre-emergence herbicides applied on dry and wet soil surface for weed control in maize (*Zea mays* L.). *4th General Conference of Associations For the Advance of Agricultural Sciences in Africa*.
- Michieka, R. W. (1982). Effects of plant residues on water holding capacity of the soil in no-tillage systems. *Soil and Water Conservation*, 333-337.
- Michieka, R. W. (1983). A survey of tillage practices used by farmers in two ecological zones of Kenya. *Proceedings of the 2nd Biennial Conference of West African Weed Science Society*, 383-390.
- Michieka, R. W. (1983). Integrated weed control in the humid tropics. *FAO More Food Better Technology*, 47-473.
- Michieka, R. W., Michieka, D. O., and Chepdorom, S. N. (1983). Initial studies on chemical weed control in onions (*Allium cepa* L.). *Proceedings of the 9th East African Weed Science Conference*, 358-363.
- Michieka, R. W. (1983). The present status of weed research in Kenya. *Proceedings of the 9th East African Weed Science Society*, 6-21.
- Michieka, R. W. and Kamiri, L. K. (1985). Effect of Frigate on Glyphosate performance. *Proceedings of the 10th East African Weed Science Society*, 64-66.
- Ariga, E. S., and Michieka, R. W. (1985). Preliminary studies on the effects of organic manure and chemical weed control on field beans (*Phaseolus vulgaris* L.). *Proceedings of the 10th East African Weed Science Society*, 97-99.
- Oryokot, J. E., and Michieka, R. W. (1985). Economic analysis of methods of weed control in maize bean intercrop. *Proceedings of the 10th East African Weed Science Society*, 106-109.
- Michieka, R. W. (1985). Research on maize (*Zea mays* L.) production under minimum tillage: A preamble. *Proceedings of the 10th East African Weed Science Society*, 47-50.
- Sibuga, K. P., Michieka, R. W., and Ngugi, D. N. (1985). The effects of pre-emergence herbicides on the nodulation of beans (*Phaseolus vulgaris* L.). *East Africa Agricultural and Forestry Journal*.
- Sibuga, K. P., Michieka, R. W., and Ngugi, D. N. (1985). Pre-emergence herbicides for beans (*Phaseolus vulgaris* L.) under rain fed and irrigated conditions. *Tropical Agriculture*.
- Muchiri, G. O., and Michieka, R. W. (1985). Ox-drawn equipment development in Kenya. *International Labour Organization/Ministry of Agriculture and Livestock Development in Excess Manufacturing Capacity and Farm Equipment Needs in Kenya*, 37-51.
- Michieka, R. W., and Kamiri, L. K. (1985). Effect of Frigate on Glyphosate performance. *Proceedings of the 10th East African Weed Science Society Conference*, 97-99.

- Ariga, E. S., and Michieka, R. W. (1985). Preliminary studies on the effects of organic manure and chemical weed control on field beans. *Proceedings of the 10th East African Weed Science Society Conference*, 97-99.
- Oryokot, J. E., and Michieka, R. W. (1985). Economic analysis of methods of weed control in a maize/bean intercrop. *Proceedings of the 10th East African Weed Science Society Conference*, 106-109.
- Michieka, R. W. (1986). Current findings on conservation tillage in Kenya. *Forthcoming 3rd Soil and Water Conservation Workshop*.
- * The years 1990-2006 were primarily spent on administration while on leave of absence. I partly taught and supervised students. I was not able to produce publications as a Vice Chancellor and Director General. However, I enhanced several staff to attain their PhDs in crucial Science and Technology areas by way of staff training. My personal efforts enabled over 100 scholarships for staff development for JKUAT staff and other local universities.**
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14. OTHER SYNERGESTIC ACTIVITIES

- Completed a five year strategic plan for NEMA while serving as Director General.
- Completed the first three reports for the State of Environment for Kenya: 2004, 2005, and 2006.
- Negotiated for several projects that are funded by donors such as DfiD, European Union, Danida, USAID, among others.
- Approved over 100 projects for Global Environment Facility for funding, and whose projects are in progress in Kenya.
- As the Director General of NEMA, I assisted in streamlining Environmental Impact Assessment (EIA) and reviewed over 5000 Environmental Audit Reports.
- Created a countrywide awareness of the importance of preserving our environment.
- Established and posted Provincial and District Environment Officers all over the country.
- Assisted in the Gazetting of several environmental notices and by laws including the Lake Naivasha Management Plant among others.
- Wrote training guidelines and manuals for colleges and universities on Environmental Impact Assessment, which are now in use assisting young graduates.
- Attended several conferences on various conventions and protocols and assisted in negotiations.
- Involved in several training programs both in the academic and non-academic institutions.
- Served as the Chairman and Member of the African Centre for Technology Studies.
- Served as Director of the Centre for Practical Action, an NGO.
- Currently serves as a member of the Governing Council of the Kenya National Academy of Sciences.
- Currently serves as an Advisor to the Youth Groups in several projects.
- Currently serves as a member of the Institute of Policy and Research (IPAR).
- Current Patron to the Japanese Ex Participants (JEPAK)
- Member of the Lake Victoria Research (**VicRes**) SIDA funded under the auspices of the Inter University Council of East Africa.
- Involved in the Nairobi river basin project.
- Involved in teaching, promoting, and creating awareness on environmental issues in both the rural and urban areas
- Currently serves as a member of the Friends of Nairobi Arboretum (FONA).
- **Visiting Researcher** (October 2015), Langston University Rehabilitation Research and Training Center (RRTC) on Research and Capacity Building for Minority Entities. The RRTC is funded by the [National Institute on Disability, Independent Living, and Rehabilitation Research](#) (NIDILRR), formerly NIDRR, U.S. Department of Health and Human Services (HHS). The information exchange was funded by The Center for International Rehabilitation Research Information and Exchange (CIRRIE), whose mission was to facilitate the sharing of information and expertise between the U.S. and other countries

15. CURRENT STUDENTS UNDER SUPERVISION

1. Georges Migwi. MSc. *'Use of Herbicides in Coffee Plantations'*. (Completed in 2018).
2. Raphael Ebanda. PhD. *'Effects of Socio-Cultural Practices on Environmental Sustainability in East and Central Africa'*. (Completed in 2019).
3. Peter Mbugua Njuguna Msc. *'Assessment of Plucking Intensity of Cowpea Leaves on Weed Infestation and Yield of Cowpeas (Vigna unguiculata. L. Walp) in Kiambu County (In progress)*.