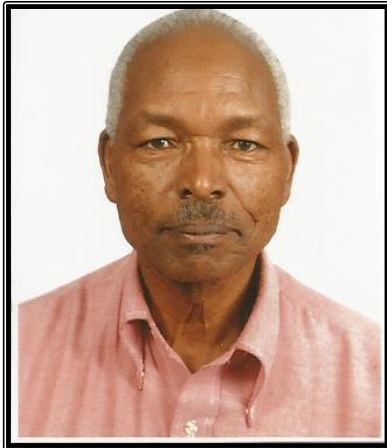


## **Prof. Michael K. Koech**



**Details:** 1 May 2021

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**Cell phone:** 0723-730260

**Position:** Associate Professor, School of Environmental Studies, Department of Environmental Sciences and Education: Environmental Education and Sustainability; Ecological Studies/Environmental Management and Policy Development.

### **Academic & Professional Qualifications**

#### **Academic**

- December 1981- Ed.D. - University of Massachusetts, U.S.A. Science / Environmental Studies and Curriculum Development; Dissertation Title: Life Science Curriculums in Kenya: A Secondary School Science Project: Links to the Environment (an Evaluation Study)
- August 1977 M.Ed. - University of Illinois, U.S.A. Educational Planning, Management and Administration.
- August 1975- B.A. - Lake Forest College, Chicago, Illinois, U.S.A. Environmental Biology /Ecology and Environmental Studies

#### **Professional**

- NEMA-Kenya Lead Expert Practicing License No. 33, 2020
- Certificate in Strategic Environmental Assessment, IAIA, Boston, 2005.
- Certificate in Principles for Environmental Management (EIA/Audits included), University of Cape Town South Africa, Dec 2000.
- Certificate of Planning and Management of Institutions of Higher Learning, Galilee College, Israel, June 14 – 24, 1999.
- Certificate in EIA Advance Training Programme, University of Cape Town, South Africa, June 18 – 30, 1995.

### **Employment History**

- 2003 to Present: Associate Professor of Environmental Studies: Teaching, Research, Training and Consultancy at the Department of Environmental Sciences and Education, Kenyatta University;
- 2002-2003: Founding Director General, National Environment Management Authority (NEMA);
- 2000-2002: Kenyan Ambassador to the United Nations Environment Programme (UNEP)
- 1999-2000: Deputy Vice-Chancellor, Finance, Planning and Development, Kenyatta University;
- 1993-1998: Founding Director, National Environment Action Plan (NEAP) Secretariat, Kenya;
- 1994-1998: National Focal Point/Advisor to the Kenyan Government, UN Global

- Environment Facility;
- 1990-1993: Senior Lecturer and Founding Dean, Faculty of Environmental Studies (FES); now School of Environmental Studies (SES), Kenyatta University;
- 1991–1993: Acting Chairman, Departments of Environmental Foundations, Environmental Sciences, Environmental Planning and Management, Environmental Socio-Cultural Studies, Centre for Environmental Education and Extension and Centre for Environmental Information and Technology.
- 1985-1990: Senior Lecturer/Lecturer and Founding Director of Centre for Environmental Education, Kenyatta University;
- 1982- July, 1985: Assistant Professor, Science Education/Environment, University of Massachusetts-USA

### **Achievements**

#### **Major Accomplishments within Kenyatta University: 1985 to Date**

- Liaised with Kenya Forest Service to receive 10,000 tree seedlings which have/are being planted around Kenyatta University environment, 2019, 2020, and 2021.
- As DVC Finance, succeeded in having all pending bills (USAB, etc.) paid by the Treasury to respective debtors, secured Title Deeds for KU properties, enhanced hospital pharmacy services, among others.
- Established numerous programmes for undergraduate and post-graduate levels.
- Established the Faculty of Environmental Studies (FES); now School of Environmental Studies (SES) and the Four Departments and two Centres: Departments of Environmental Foundations, Environmental Sciences, Environmental Planning and Management, Environmental Socio-Cultural Studies, Centre for Environmental Education and Extension and Centre for Environmental Information and Technology.
- Established the Department of Environmental Education; now Department of Environmental Science and Education, and
- Established the Centre for Environmental Education.
- Contributed/contributing to planning and development of assorted curricula for many environmental programmes at Kenyatta University.

#### **Major Accomplishments at NEMA-Kenya: 2002 – 2003**

- Successfully completed the First 3 Year Strategic Plan of NEMA-Kenya
- Successfully completed the establishment of NEMA, comprising of Departments, personnel and grading systems of staff, and staff integration from various defunct Departments (NES, Presidential Commission on Afforestation Programme, DRSRS).
- Successfully completed drafting and negotiated the First Budget (Ksh.450 million) for the Authority and defended it at all levels including at the Treasury.
- EIA/Environmental Audits Regulations gazetted and operationalized.
- Launched all the Provincial and District Environmental Committees in the Republic of Kenya.
- Contributed towards issuing one of the first EIA licenses to the Tiomin Kenya Inc. to mine tiomin in Kwale District, Coast Province.
- Established the NEMA – EIA Technical Advisory Committee.
- Effectively represented NEMA - Kenya at the relevant East African Community meetings in Arusha and at International fora.
- Successfully completed several MoU's with partners of NEMA, Kenya.
- Completed development and establishment of Environmental Tribunal Court facilities at the Authority.
- Established National Environmental Action, Plan Process. (The Second Phase).

- Established the Committee to deliberate the phasing out of leaded gasoline in Kenya
- Successfully organized and briefed the Parliamentary Committee on Agriculture and Natural Resources on the mandates and functions of NEMA Kenya as the needs arose.
- Established other relevant organs of the Authority, e.g. Standards Committee, and more.

### **Major Accomplishments as Ambassador Permanent Representative to UNEP, Nairobi 2000 – 2002**

- Reinstated Kenya into the UNEP Governing Council Bureau;
- Contributed to successful negotiations for UNEP to have reliable and sustainable funding for its programmes e.g. multiyear volunteering pledges etc.;
- Represented Kenya effectively in the Committee of Permanent Representatives of UNEP, African Diplomats for UNEP, and in numerous global, regional and national fora;
- Represented Kenya and actively contributed to the negotiations on the International Environmental Governance (IEG) process;
- Contributed successfully to many processes including requesting the UN system to hold more meetings at the UN-Gigiri Complex, preparing for meetings of WSSD that culminated in Johannesburg, June 2002 and follow-up actions; and
- Contributed to negotiations towards GEF Projects for Africa and the sub-region.

### **Major Accomplishments within the NEAP: 1993 - 1998**

- Successfully established all the Taskforces of NEAP, Kenya Edition;
- Completion of the NEAP Report in June, 1994. The Government of Kenya adopted the Report in July, 1994.
- Because of the completion of the NEAP and its adoption, the Kenya Government continued to be eligible for International Development Agency (IDA)/ World Bank funding.
- Development and completion of the Environment and Development Policy - a useful tool for managing Kenya's resources (sessional Paper No. 6, 1996).
- Development of the Environmental Impact Assessment Policies, Guidelines and Procedures.
- Development of the Training Needs Assessment for Kenya in Environmental Management.
- Development of the Framework of the NEAP Institutional Study for Environmental Management in Kenya.
- Development and Substantive contributions to the Environmental Management and Coordination Bill - A component of the NEAP Process. This became Environment, Management and Coordination Act, 2000.
- Development and Completion of the First Kenyan NEAP Newsletter.
- Substantively contributed to development of the Forestry Policy, Mineral and Forest Acts Review.

### **National/International Awards and Honours**

- 2000-2001: Described in **Who's Who in Science and Engineering**, Marquis 5th Edition;
- 1997: Described in 14th Edition, **Who's Who in the World** for outstanding contributions to Environment and Development, Development of Environmental Science/ Education/ Studies/ Ecology Programmes. Marquis, ISBN # 0-8379-1117-6, 1996;
- 1996: Awarded the **Eastern Africa Environmental Network (EAEN) Environmental Leadership Award**

- 1995: Awarded the Presidential Prestigious "**Moran of the Burning Spear,**" (M.B.S.) for National Environment Action Plan (NEAP) successful process, including developing Environmental Impact Assessment (EIA) Guidelines and Procedures, National Policy on Environment and Development, and Establishment of the School of Environmental Studies (SES);
- 1981: Grantee, **Rockefeller Foundation and Ford Foundation Doctoral Research.**

## **Publications**

### **Refereed Journals**

- Ngetich, P.K., Koech, M.K., Manguriu, D., Kinoti, M.K. & Kimtai, N.J. (2021). IMPACTS OF DAIRY EFFLUENT ON QUALITY OF THE KIPSONOI RIVER, BURETI SUB COUNTY, BOMET COUNTY, KENYA. *European International Journal of Science and Technology*, 10(2), 13-28.
- Ngare, I., & Koech, M. K., (2016). UNDERSTANDING KENYA'S MULTILATERAL ENVIRONMENTAL AGREEMENTS, THE FUTURE OF ENVIRONMENTAL GOVERNANCE. *Journal of Environmental Science, Toxicology and Food Technology*. 10(11) e-ISSN: 2319-2399, Ver. 1 (pp 37-39)
- Boiyo, V., Koech, M. K., & Manguriu, D. (2015). ENVIRONMENTAL ATTITUDES AND ECOLOGICAL BEHAVIOUR AMONG STUDENTS: A CASE STUDY OF KIBERA AND KASARANI DIVISION IN NAIROBI, KENYA. *International Journal of Interdisciplinary Research and Innovations*. 3(1). pp: (50-59), Month: January-March, ISSN 2348-1218 (Print): ISSN 2348-126 (Online)
- Ojok, & Koech, Michael & Tole, Mwakio & Okot-Okumu, James. (2012). RATE AND QUANTITIES OF HOUSEHOLD SOLID WASTE GENERATED IN KAMPALA CITY, UGANDA. *Science Journal of Environmental Engineering Research*. Volume 2013. Article ID sjeer-237.doi:107237. ISSN:2276-7495<http://www.sjpub.org/sjeer.html> Available from [https://www.researchgate.net/publication/258218105\\_Rate\\_and\\_Quantities\\_of\\_Household\\_Solid\\_Waste\\_Generated\\_in\\_Kampala\\_City\\_Uganda](https://www.researchgate.net/publication/258218105_Rate_and_Quantities_of_Household_Solid_Waste_Generated_in_Kampala_City_Uganda)
- Kiprotich, V. B., Koech, M. K., & Manguriu, D. (2014). ENVIRONMENTAL AWARENESS, ATTITUDE AND PARTICIPATION AMONG SECONDARY SCHOOL STUDENTS: A COMPARATIVE STUDY OF KASARANI AND KIBERA DIVISIONS, NAIROBI COUNTY, KENYA. *Global Educational Research Journal*. 2(9).
- Waudu, N. S., Maraga, J. N., & Koech, M.K. (2013). FACTORS INFLUENCING FUELWOOD SCARCITY AMONG RURAL HOUSEHOLDS IN LURAMBI DISTRICT, KAKAMEGA COUNTY, KENYA. *International Journal of Current Research* ISSN: 0975-833X. 5(12). pp. 4138-4141.
- Ouma, C., Obando, J. Koech, M. K. (2012). POST DROUGHT RECOVERY STRATEGIES AMONG THE TURKANA PASTORALISTS IN NORTHERN KENYA. *Journal of Biotechnology*. 1(15). Pp 90-100.
- Koech, M.K. 1999. THE DEVELOPMENT OF ENVIRONMENTAL ASSESSMENT GUIDELINES AND PROCEDURES IN KENYA. *African Journal of Environmental Assessment and Management* Volume 1 No. 1, January 1999.
- Koech, Michael Korir- (1991). ENVIRONMENTAL EDUCATION IN KENYA BEYOND THE YEAR 2000. *Journal of Eastern African Research & Development*, 21 40-52, <https://www.jstor.org/stable/24326244>
- Otieno, D., Koech, M. K., Atchia, M., A SURVEY OF THE ROLE OF PRIMARY SCHOOL WOMEN TEACHERS IN EE AND AWARENESS BUILDING IN NAIROBI,

- KENYA. *Journal of Abstracts in International Education*, Spring 1993 Vol. 20, No. 1.
- Koech, M.K. 1983. CONTRIBUTIONS OF ALTERNATIVE (NON-FORMAL) EDUCATION IN DEVELOPING COUNTRIES in *Resources in Education*, ERIC No. 233-447, March 1983.
  - Koech, Michael. (1982). KENYA in *Equity & Excellence in Education*, 20. 23-24. 10.1080/746919116.

### **Books and Books Chapters**

- Koech M.K. and Munene K.J. (2020) Circular Economy in Kenya. In Ghosh S. (eds.) *Circular Economy: Global Perspective*. Springer, Singapore First Online 02 November 2019. Nairobi. Nairobi. Print ISBN978-981-15-1051-9. Online ISBN978-981-15-1052-6. [https://doi.org/10.1007/978-981-15-1052-6\\_12](https://doi.org/10.1007/978-981-15-1052-6_12).
- Koech, M.K. and M. Kinoti 2007 “Principles and Applications of Strategic Environmental Assessment” in F. Waswa, S. Otor, *et al.* (Eds.). *Environment and Sustainable Development* Vol. II (Eds.) School of Environmental Studies and Human Sciences, Kenyatta University, ISBN: 9966-776-34-6, Nairobi.
- Koech, M.K. 1998 “Science and the Environment” in O.G.K. Tsuma (Ed.), *Science Education in the African Context*. Jomo Kenyatta Foundation, Nairobi, ISBN. 9966-22-145-X.
- Koech, Michael. (1991). “Evolution of Environmental Management in Kenya. In A. Kiri and C. Juma (Eds.). *Gaining Ground: Institutional Innovations in Land Use Management in Kenya*. Nairobi: ACTS Press. 21-34. PDF available from Researchgate.net. [https://www.researchgate.net/publication/284990202\\_Evolution\\_of\\_environmental\\_management\\_in\\_Kenya](https://www.researchgate.net/publication/284990202_Evolution_of_environmental_management_in_Kenya)
- Koech, M.K. 1988. "Environment and People: Problems and Consequences Focusing on the Protection of the Ozone Layer from Chemical Damage" in M.O. Okere, (Ed.). *The Role of Physics in National Development*. The Kenya National Association of Physicists, University of Nairobi, 28-30.
- Koech, M.K. 1987. "Environmental Education and Training: Kenya's Experience" in *Environmental Education Including Population Education in Eastern and Southern Africa*. Published: UNESCO-UNICEF, 1987.
- Koech, M.K. 1987 "Training Needs in Natural Resources: Conservation at Primary and Secondary School Level in Kenya" in Roger Yeager (Ed.). *Africa's Conservation for Development*, African-Caribbean Institute, USA, 1987.

### **Major Reports and Policy Documents**

- The City of Nairobi Environment Outlook Report (CNEOR), 2007 UNEP and UN Habitat.
- The National Environmental Action Plan (NEAP) Report, Ministry of Environment and Natural Resources, June 1994.
- First Newsletter of the Kenya NEAP, 1996: “Land Mark Year for the Environment”. Was the Chief Editor and Founder.
- Environment Development Policy of 1996, Ministry of Environment and Natural Resources.
- Environmental Impact Assessment Regulations, 2003. Kenya National Environment Management Authority (NEMA).
- Biosphere Reserves for Biodiversity Conservation and Sustainable Development in Anglophone Africa (BRAAF) UNESCO Paris, 1999.
- Kenya’s NEMA’s First 3 Year Strategic Development Plan (2003 - 2006).
- The KU: Department of Environmental Sciences Strategic Plan (2007 - 2012).

- The KU: Development Plan for the Faculty of Environmental Studies (1992 - 2002).
- Draft National Environmental Impact Assessment Administrative Procedures and Guidelines, 1995-1996.
- International Strategy for Action in the Field of Environmental Education and Training for the 1990s, UNESCO –UNEP Congress on Environmental Education and Training, Moscow, 1987.

## **Conference/Workshop/Seminar Papers**

### **Papers Presented at Conferences**

- 2<sup>nd</sup>- 7<sup>th</sup> December, 2020. “Wastewater Treatment and Resource Circulation in the East Africa Community (EAC)” presentation of paper by Koech M.K. and Kaburu, J. at the 10th International Conference on Sustainable Waste Management towards Circular Economy at Jabalpur University, Kolkata, India.
- 20<sup>th</sup> – 25<sup>th</sup> November, 2018. “Waste Management Status and Future Goals in Kenya”. Paper presented at the International Society of Waste Management, Air and Water (AISWMAW) Conference in Vijayawada, India (Virtual).
- 9<sup>th</sup> to 16<sup>th</sup> March 2018. “The Role of Environmental Education in the Application of 7R Approach of Sustainable Solid Waste Management in Nairobi Kenya” Presentation and Paper presented at International Conference on Solid Wastes Technology and Management in Annapolis, Washington DC, USA.
- 26-28 May 2016. “Ecumenism, Environment and Development: Environmental Sustainability and Economic Development,” paper presented at the IEM-Kenya Regional Conference on Christian Unity in East Africa at the Tangaza University College,
- 28<sup>th</sup> – 30<sup>th</sup> August, 2013. “Food Security and Climate Change”, Key Note Paper. Mount Kenya University 1st Annual International Conference: Towards Achieving a Knowledge Economy Through Research and Innovation, Safari Park Hotel, Nairobi.
- 6<sup>th</sup>-10<sup>th</sup> September, 2011. “Environmental Sustainability and Economic Development: Global Warming and Climate Change”, Key Note Paper at the 7th Annual International Conference, Moi University.
- .29<sup>th</sup> July-2<sup>nd</sup> August, 2008. “Conflict Resolution in Planning and Management of Environmental Resources.” Keynote paper and Presentation at the Moi University Fourth Annual Conference, Conference Theme: Resource Utilization for Sustainable Growth and Development in the 21<sup>st</sup> Century
- 28<sup>th</sup>-30<sup>th</sup> August, 2006 “Evaluating the Benefits of Meteorological Services to Environment and Biodiversity Management in Kenya.” Paper presented at the Regional Conference on Meteorology, Safari Park Hotel, Nairobi, Kenya.
- 15<sup>th</sup> – 18<sup>th</sup> August, 2006. “Towards The Development of Environmentally Sound Solid Wastes Management in the City of Nairobi.” Paper presented at the Waste Management Inception Conference on “Creating Health and Wealth through Waste Reduction at, Safari Park Hotel – Nairobi, Kenya, Hosted by United States International University, Nairobi Campus.
- 23<sup>rd</sup> -26<sup>th</sup> May, 2006. “Impacts of Wood fuel Production on Biodiversity- A Case Study from Kenya.” Paper presented at the International Association for Impact Assessment (IAIA) Annual Conference, Stavanger-Norway.
- 15<sup>th</sup>-17<sup>th</sup> August, 2006. Presented the following papers: “Towards the Development of Environmentally Sound Solid Wastes Management in the City of Nairobi” by Michael K. Koech and Mary Kinoti and “Challenges in Relocating Solid Wastes Dumpsite: A Case Study of the Meru Municipality” by M. K. Koech, M. K. Kinoti, L. N. Mbwiria and S. Bitengo; at Waste Management Inception Conference, convened by the United States International University Nairobi – Africa, the USIU Auditorium..

- 31<sup>st</sup> May –4<sup>th</sup> June, 2005. “Environmental Impacts of Tea Growing and Processing – The Case Study of Kenya.” Paper presented at the International Association for Impact assessment (IAIA) 25<sup>th</sup> Annual Conference Boston, MA USA.
- 8<sup>th</sup>-10<sup>th</sup>, July, 1998. "NEAP and EIA Guidelines for Kenya," and presented the "Country's Position Paper on EIA in Kenya," also Head of Kenyan Delegation. Paper Presented at Regional Stakeholders Workshop on EIA Capacity Building for Sub-Saharan Africa. Organized by: UNEP, AMCEN, IUCN, UNECA, at Gigiri: Nairobi, Kenya.
- 30<sup>th</sup> March - 4<sup>th</sup> April, 1998. "The Role of Environmental Impact Assessment (EIA) Guidelines and Procedures in the NEAP Process for Biodiversity Conservation." Presented Closing Remarks at conference at the 4th BRAAF Regional Seminar: Lake Manyara Biosphere Reserve in Tanzania. Organised by UNESCO.
- 23<sup>rd</sup> - 26<sup>th</sup>, September, 1997. “Technical Centre for Agricultural and Rural Co-operation (CTA) ACP-EU/International Institute for Aerospace Survey and Earth Sciences (ITC) Seminar on Geographical Information Systems (GIS) and Remote Sensing as Tools for Rural Development in sub-Saharan Africa: The Kenya Report”. Paper prepared and presented by Prof M. K. Koech, NEAP Coordinator, Mr. H. M. Aligula, Director, Department of Resource Surveys and Remote Sensing, Mr. T. Tuwei, Ministry of Agriculture, et al organized by the Technical Centre for Agriculture and Rural Co-operation, Enschede, The Netherlands.
- 2<sup>nd</sup>-6<sup>th</sup>, September, 1996 “Indigenous People and Their Knowledge in Development.” Paper Presented at the 5th International Congress of Ethnobiology at the Kenyatta International Conference Centre, Kenya.
- 23<sup>rd</sup> - 25<sup>th</sup>, July, 1996. “Towards Development of a National Wetlands Policy: The Role of NGOs. Kenya NEAP and Environmental Policy.” Paper Presented at Naivasha Fisheries and Wildlife Institute, Kenya.
- 4<sup>th</sup> – 7<sup>th</sup>, December, 1995. “Status and Integration of Coastal Resource Management.” Paper Presented at National Workshop: Integrated Coastal Zone Management organised by Coast Development Authority, Mombasa Beach Hotel: Mombasa, Kenya.
- 23<sup>rd</sup>-29<sup>th</sup> October, 1995. "Efforts towards Sustainable Development and Soil Conservation in Kenya." Paper presented at. Strategic Frameworks for Environment and Development: Lessons Learned from Successful Community-based African Initiatives organised by NESDA. Cape Town, South Africa
- 24<sup>th</sup>-28<sup>th</sup>, July, 1995. “The Importance of Medicinal Plants in the Kenyan NEAP.” Paper Presented at Workshop on Biodiversity Conservation of Indigenous Plants and Wild Relatives of Food Crops- UNESCO/UNEP, Silver Springs Hotel: Nairobi and Amboseli Lodge, Kajiado, Kenya.
- 8<sup>th</sup> -9<sup>th</sup>, May, 1992. “EE in Formal School Curricular.” Paper Presented at Eastern African Environmental Network Conference, National Museums, Kenya.
- 19<sup>th</sup>-26<sup>th</sup>, July, 1991. “Towards the Development of Environmental Ethics and Environmental Values Education.” Canada's Harmony Foundation on Environmental Education. Paper Presented at Summer Institute for Environmental Values Education, Econiche: Ottawa, Canada.
- 3<sup>rd</sup>-7<sup>th</sup>, October, 1989. “Environmental Education and Decision-Making.” Paper Presented at International Conference on EE, Goa India.
- 30<sup>th</sup> March - 2<sup>nd</sup> April, 1989. “Environmental Education in the Classroom: A Perspective from Kenya.” Paper Presented at Conference on Comparative and International Education, Harvard, University, USA.



- 23<sup>rd</sup> -27<sup>th</sup> November, 1987. "Environmental Education, Training and Curriculums at the Tertiary Level in Kenya." Paper Presented at Environmental Education and Resource Management in Africa Tertiary Level Institutions, UNEP: Nairobi, Kenya.
- 15<sup>th</sup> September 1987. "National Environment Secretariat: Impact on the Schools and Educational Institutions." Paper presented at the Evaluation of the National Environment Secretariat (NES), Ministry of Environment and Natural Resources, NES, Nairobi.
- 17<sup>th</sup>-22<sup>nd</sup> August, 1987. "Environmental Education: Kenya's Experience". Paper presented as Member and Head of the Kenya Delegation, at the International Congress on Environmental Education and Training, Moscow.
- 1<sup>st</sup>-5<sup>th</sup> April, 1986. "Training Needs on Natural Resources Conservation at Primary and Secondary School Levels in Kenya." Paper presented at the First African-Caribbean Institute/UNEP Conference, United Kenya Club, Nairobi, .
- October, 1981. "Food Preservations in Rural Communities: Perspectives from East Africa" in Proceedings, African Studies Association Conference.
- 1980. "The Use of Non-formal Education Technology for the Improvement of Nutrition among Rural Kenyans" paper presented and abstract published in New Dimensions of Appropriate Technology Symposium Proceedings, The University of Michigan, 1980.
- 1979. "Non-formal Education for Rural Development in Kenya: The Case of Village Polytechnic" paper presented and abstract published in Regional Meeting: The New England Comparative and International Education Society Series, University of Massachusetts, Amherst, 1979.

#### **Papers Presented at Workshops**

- 26<sup>th</sup> May, 2018. "Climate Change Adaptations and Mitigations in Kenya." Presentation to the IEMK Ecumenical Round Table on The Role Of Christians In Environmental Care at the Orthodox Church Of Kenya, St. Anargyroi Patriarchal Cathedral, Nairobi.
- 3<sup>rd</sup>-7<sup>th</sup> May, 2010. Sustainable Development and Environment of Kenya: SENKE/UNEP Workshops on Tools for Environmental Management: An Introductory Course – Meridian Court Hotel, Nairobi, Kenya.
- 16<sup>th</sup>-20<sup>th</sup> January, 2006. UNEP Training Manual for Integrated Environmental Reporting in Africa Review and Revision Workshop, Pretoria, Chair of Session 3, Republic of South Africa.
- 26<sup>th</sup> October 2005. "Highlights of the Guidelines for AEO Cities Integrated Environmental Assessment and Reporting for the City of Nairobi Preparatory Report" Presentation made at the Joint Consultative Stakeholders Workshop on the City of Nairobi Environment, IUCN Headquarters Nairobi.
- Sept. 23, 2005. Kenya Water Partnership Stakeholders Forum, Silver Springs Hotel, Nairobi. Discussant on water and environment and chaired working group on actions & projects to implement IWRM.
- 23<sup>rd</sup> August, 2005. Japan International Corporation Agency (JICA) and Ministry of Roads and Public Works and Ministry of Local Government on the Development of the Master Plan for the City of Nairobi, Sixth Stakeholders Workshop, Kenya Science Teachers College,. Discussed and contributed to the EIA Studies on the Missing Links Roads Nos, 3, 6 and 7. (Westlands, Kilimani, Lavington).
- 27<sup>th</sup> – 28<sup>th</sup> April, 2006. Sustainable Development and Environment of Kenya (SENKE): SENKE/NESDA Workshop: Capacity Building for Sustainable Development Held at Meridian Court Hotel, Nairobi, Kenya.
- 9<sup>th</sup> -12<sup>th</sup> May, 2005. UNEP-NEPAD Workshop on Developing A Network of Centres of Excellence for Water Sciences and Technology at UNEP, Nairobi. Contributed in the area of International Development and Sustainability.



- 3<sup>rd</sup> February, 2005. Japan International Corporation Agency (JICA) and Ministry of Roads and Public Works and Ministry of Local Government on the Development of the Master plan for the City of Nairobi,” second stakeholders workshop Kenya School of Monetary Studies, Nairobi. Discussant on the contributions of EIA Studies on Roads.
- 13<sup>th</sup> -15<sup>th</sup>, March, 1998. “The Importance of Wetlands and Biodiversity Conservation in Kenya,” and "The Impacts of Human Activities on the Dynamics of Arid and Semi-Arid Zones of Kenya.” Presented two papers at A National Workshop on Community Participation in Planning and Management of Amboseli Biosphere Reserve, organised by Kenya National Commission for UNESCO (MAB Programme) and Kenya Wildlife Service. Namanga River Lodge, Kenya.
- 22<sup>nd</sup>, January, 1998. “Policies on Draft NEAP Environmental Impact Assessment Guidelines and Procedures for Biodiversity.” Presented Paper at Workshop on Valuation of Biodiversity in Kenya, organised by the National Council for Science and Technology, Grand Regency Hotel, Kenya.
- 30<sup>th</sup> July to 1<sup>st</sup> August 1997. ”Dryland Management and Biodiversity: The Kenya National Environment Action Plan (NEAP) Process and Its Contribution” paper presented at the Drylands Management and Biodiversity Workshop at National Museums of Kenya.
- 7<sup>th</sup> August, 1997. “Experiences and Vision of the NEAP Process and Opportunities.” Paper Presented at the Workshop on National Sustainable Use, organised by Sustainable Use Network for Eastern African Region (SUNEAR), Silver Springs Hotel: Nairobi, Kenya.
- 4<sup>th</sup> -7<sup>th</sup>, June, 1997. “The Role of NEAP and the Expected Impact of the Proposed Environmental Legislation on Resource Planning and Management.” Paper Presented at a Seminar on Application of Natural Resources Information/Data at District Level: organised by the Department of Resource Surveys and Remote Sensing, Sirikwa Hotel, Eldoret, Kenya.
- 30<sup>th</sup> July –1<sup>st</sup>, August, 1997. “The Kenya National Environment Action Plan (NEAP) Process and its Contributions.” Paper Presented at the Regional Workshop on Management of Dryland and Biodiversity, organised by Research Programme on Sustainable use of Dryland Biodiversity (RPSUD), National Museums of Kenya: Nairobi, Kenya.
- 7<sup>th</sup>- 8<sup>th</sup> May, 1997. “Kenya's Environmental Adjustment Reforms.” Paper Presented at Workshop on Strategic Planning for the IMCE Sub-Committee on Environmental Economics, organised by National Environment Secretariat, at Kenya College of Communications (KCCT), Mbagathi: Nairobi, Kenya.
- 9<sup>th</sup>-15<sup>th</sup> March, 1997. “Methods Used to Count (Monitor) Animals /Vegetation: Trends in East African Protected Areas.” Paper presented at the Third Regional Seminar for the UNESCO Project - Biosphere Reserves for Biodiversity Conservation and Sustainable Development in Anglophone Africa (BRAAF), Cape Coast, Ghana.
- 6<sup>th</sup> - 7<sup>th</sup>, March, 1997. “Industry and Environment - Brief on the NEAP in Kenya.” Paper Presented at Resource Person to the FKE/ILO/UNEP High-Level Workshop on Cleaner Production organized by the Federation of Kenya Employers at Mayfair Court Hotel: Nairobi, Kenya.
- 23<sup>th</sup>-25<sup>th</sup>, October, 1996. "The Role of NEAP in GEF.” Paper Presented at Workshop on GEF Training for East Africa, UNEP: Nairobi, Kenya.
- 22<sup>nd</sup>-25<sup>th</sup>, October, 1996. “Environmental Impact Assessment (EIA) Development, Procedures and Guidelines.” Paper Presented at a Sensitization Workshop on Environmental Impact Assessment (EIA) organised by the National Environment Secretariat, at Kenya College of Communications, Mbagathi, Kenya.

- 26<sup>th</sup>-27<sup>th</sup>, July, 1996. "Background of Network for Environment and Sustainable Development in Africa." Paper Presented at the Launching Workshop on NESDA's National Chapter for Kenya at Lake Bogoria Hotel, Kenya.
- 1<sup>st</sup> August, 1995. National Tourism Master Plan, MOTW/JICA, Workshop Discussant on the Kenya NEAP on "Natural Resources" Serena Hotel,
- 24<sup>th</sup>-28<sup>th</sup> July, 1995. "The Importance of Medicinal Plants in the Kenyan NEAP." Paper presented at the Biodiversity Conservation of Indigenous Plants and Wild Relatives of Food Crops" Workshop by UNESCO/UNEP held at Silver Springs Hotel, Nairobi and Amboseli Lodge, Kajiado,
- 12<sup>th</sup>-14<sup>th</sup> April, 1994. "Linkages between the Global Environment Facility (GEF) and the Kenya National Environment Action Plan (NEAP)." Paper Presented at GEF Kenya National Workshop, Gigiri: Nairobi, Kenya.
- 19<sup>th</sup>-26<sup>th</sup> July, 1991. "Towards the Development of Environmental Ethics and Environmental Values Education." Paper presented at the Canada's Harmony Foundation on Environmental Education, 1991 Summer Institute for Environmental Values Education, Econiche, Ottawa, Canada.

#### **Papers Presented at Seminars**

- 5<sup>th</sup> June, 2006. "Let's Save our Dry lands" Keynote address delivered at Kenya Science Teachers College (KSTC) Nairobi, 2006 World Environment Day (WED) Seminar and Celebrations.
- 27<sup>th</sup>-29<sup>th</sup>, April 2004. "Environmental Trends: Global and Regional Environmental Perspectives." Paper presented at the Senior Executive Seminar on Profitability and Sustainability University Of Cambridge, Programme for Industry – The Leadership Challenge, The Nairobi Serena Hotel, Kenya.
- 18<sup>th</sup> – 24<sup>th</sup>, February, 1996. "Kenya's Progress Report on Biosphere Reserve and the NEAP Contributions Towards Biodiversity Conservation." Paper Presented at Second Regional BRAAF Seminar at Mweya Safari Lodge, Queen Elizabeth National Park, Uganda.
- 7<sup>th</sup>, June, 1989. "Towards the Development of an Environmental Ethics." Paper Presented at the Social Education and Ethics Professors Peace Academy of Kenya Seminar, Silver Springs Hotel: Nairobi, Kenya.

#### **Papers Presented at Forums**

- 23<sup>rd</sup> September 2017. "Caring For the Natural Environment: Climate Change, Pollution & Waste Management." Presentation to the Assumption of Mary Catholic Church in Umoja Estate, Nairobi.
- 14<sup>th</sup>, February, 1997. "Progress of the Kenya NEAP in the implementation of Agenda 21." Paper Presented at Forum for National Consultations for Rio+5, organised by the National Environment Secretariat at Kenya College of Communications Technology (KCCT) Mbagathi, Kenya

#### **Student Co-Authored Publications**

- Munene, J. K., Koech, M. K., & Manguriu, D. (2019). ANTHROPOGENIC FACTORS THAT CAUSE FLOODS IN MUKURU SLUMS, NAIROBI CITY COUNTY, KENYA. *European International Journal of Science and Technology*. 8(7). 9-22
- Kimtai, J. N., Koske, J, K, A., & Koech, M. K. (2019) INFLUENCE OF CLIMATE VARIABILITY ON THE PREVALENCE OF DENGUE FEVER IN MANDERA COUNTY, KENYA. *Journal of Environment and Earth Science*. ISSN (print) 2224-3216 ISSN (online) 2225-0948.
- Ngare, I., Koech, M. K., Manguriu, D., Gichuki, C., & Karanja, J. (2016). THE TREND

OF CLIMATE VARIABILITY EFFECTS ON DAIRY FARMING IN MASABA NORTH, NYAMIRA COUNTY KENYA. *Journal of Environment and Earth Science*, 6(11) ISSN 2224-3216 (Paper), ISSN 2225 (Online)

### **Other Publications (Abstracts of Papers)**

- Koech, M.K. 1988. "Environmental Education and Training: Kenya's Experience" in UNESCO-UNEP International Congress on Environmental Education and Training, Moscow, USSR, 17-21 August 1987. A summary of this paper was published in Connect, UNESCO-UNEP, Vol. XIII No. 3 September 1988.
- Koech, M.K. 1987. "Practical Teaching Methods for Environmental Education and Population Education" in Basic Education Resource Centre Bulletin - Basic Education and Environment, Vol. 16, 1987, Kenyatta University.
- Koech, M.K. 1986. "The Meaning of Environmental Education" in YMCA Review, Vol. 4 No. 15, July-September 1986.
- Koech, M.K. 1984. "Curriculum Evaluation of Heuristic Methods in Developing Countries: A Case Study from East Africa" in Journal of Abstracts in International Education, Vol. 13 No. 2, Summer, 1984.
- March, 1984. "Cost Benefit Analysis: Implementation of Innovative Education Projects in Developing Nations." in Comparative International Education Society Conference Proceedings.

### **Research, Consultancy and Training Programmes**

- June 2019-February 2020: Lead ESIA Consultant for Upland Crops Limited, Narok. Study for the Proposed Constructions of Wheat Mill, Silos and Associated Works on Plot L.R. No. Cis-Mara/Nkobon/2000 at Upland Crops Ltd Factory, Narok, Kenya
- Jan. 2017–2019: Lead ESIA Consultant: Connex Ltd, for KURA. The Embu and Chuka Roads Upgrading Study.
- January 2016–2019: Lead ESIA Consultant: Connex Ltd, for KURA; the Kericho – Bomet Upgrading Project Roads; Environmental and Social Impact Assessment (ESIA) Study
- February-August 2016: Lead EIA Consultant: The Unga Holdings Limited Commercial Street Nairobi Environmental and Social Impact Assessment (ESIA) Study
- June 2013-January 2014: Lead EIA Consultant: ESIA Study on Preparation of Inception and Final ESIA Report: Installation of Traffic Lights and Automation of Central Bus Park in Eldoret Town for Kenya Municipal Programme, (KMP) Ministry of Local Government. (MoLG).
- June 2011–June 2012: Lead EIA Consultant: EIA Study on Preparation of Inception and Final ESIA Report on the Upgrading of the Narok-Mau-Narok (C57) Roads Project in Narok County for Kenya National Highway Authority (KeNHA)
- January 2010 – March 2011: Lead EIA Consultant: EIA Study on Preparation Inception and Final EIA Report on the Upgrading of the Kangundo – Kamuthanga – Machakos - Katumani (C99) Roads Project in Kangundo, Kamuthanga, Katumani and Machakos Districts for the Ministry of Roads (MoR).
- May 2010: Lead Trainer: SENKE Training Course on Tools for Environmental Management: Environmental Impact Assessment (EIA) and Environmental Audits (EA). Ecological Impact Assessment, EIA Follow-Up, and Interrelationship Between SEA, EIA, and EA; Tools for Sustainable Development and Environmental Management; SEA and EIA Legislative Process.
- July 2009 - April, 2010: Environment and Climate Change Consultant for African Ministerial Conference on Environment (AMCEN) Secretariat, UNEP, Nairobi, Kenya.

- June –Sept. 2009: Census/Inventory Study: A Study for the PAPs in the Missing Links No. 3, 6 and 7 in the City of Nairobi for the Katahira Engineers International (KEI).
- June – July 2009: Lead EIA Consultant: EIA Study for the Missing Links No. 3, 6 and 7 in the City of Nairobi, for the Ministry of Local Government (MoLG).
- August – September 2009: Principal Consultant/Coordinator: The Study of EIA/EA Courses/programmes in Tertiary Institutions in Eastern Africa for the International Union Centre for Conservation of Nature (IUCN).
- April – June, 2009: Development of a Course on Conservation Ecology for the Braeburn International University.
- September 2008 - December 2009: Lead EIA Consultant: EIA Study on Preparation Inception and Final EIA Report on the Upgrading of Kaharati – Njiris (D418/ D417) Roads Project in Maragua District for the Ministry of Roads (MoR).
- Nov. – Dec. 2007: Lead EA Consultant: 2<sup>ND</sup> Environmental Audit (EA) Study Report for Kenya Institute of Administration (K.I.A) – Kenya, Nairobi.
- September – October 2006: Principal Consultant/Coordinator: The Study of Environmental Assessment & Management Needs Assessment of Petroleum Industry in Kenya for the International Union Centre for Conservation of Nature (IUCN).
- August. – December 2006: Lead EIA Consultant: EIA Study on Preparation Inception and Final EIA Report on the Upgrading of Ogembo-Rongo (C20)-Kamagambo-Kenya-(C17) Junction (D205/204) Roads Rehabilitations Roads Project in Gucha District for the Ministry of Roads (MoR).
- 2005-2007: Principal Consultant/Coordinator, the City of Nairobi Environment Outlook Report (CNEOR).
- 2005. Training Course Given: Sustainable Development and Environment of Kenya (SENKE) Training on Tools for Sustainable Development: Environmental Impact Assessment and Environmental Audit. September 29 to 6 October 2005 The Olive Gardens Hotel Hurlingham, Nairobi, Kenya. Training Report generated for UNEP.
- June, 2005: Lead Consultant: EIA Study on the Missing Links Roads in the Westlands Division, Nairobi for the Master Plan of the Nairobi Transportation Systems for Ministry of Roads and Public Works, Kenya.
- Aug, 2004: Lead Consultant in the Nairobi Metropolitan Area and its Environs in the Natural and Social Considerations for the Master Plan of the Nairobi Transportation Systems for Ministry of Roads and Public Works, Kenya.
- May, 2004: Lead Consultant on the EIA Study of the Proposed Nyayo Tea Zones Development Corporation's Tea Processing Factory in North Nandi District.
- 2003. Training Course Given: Sustainable Development and Environment of Kenya (SENKE) Training Course on Environmental Impact Assessment (EIA) and other Essential Tools for Sustainable Development December 16<sup>th</sup> -19<sup>th</sup>, 2003. College of Insurance. Training Report generated for UNEP.
- 2001. Training Course given: Sustainable Development and Environment of Kenya (SENKE) Report Training Course on Tools for Environmental Management 13<sup>th</sup> -15<sup>th</sup> September, 2001, Meridian Courts Hotel.
- October – November 1998: Study on the Staff Skills Audit / Needs Assessment for the Strategic Assessment and Institutional Strengthening of the East African Wildlife Society.
- 1993 - 1998: Developed the NEAP with all its components, Institutional, EIA, Legislation and Policy.
- September – October 1997: UN D1 Level Consultancy at UNEP: Conducted a Sub-programme Evaluation on Environmental Assessment of UNEP from 1992 - 1997. It covered Infoterra, Global Resource Information Database (GRID), Environmental Resource Information Network (ENRIN), Global Environment Outlook (GEO), State of

Environment (SOE), Global Environment Monitoring Systems (GEMS), Monitoring and Assessment Research Centre (MARC), and Harmonization of Environmental Measurements (HEM). Produced a useful report with implementable recommendations.

- 1997: Resource Person, "The Impact of Science and Technology on Environment," organized by the Kenya National Defence College (NDC), Karen, Nairobi, 26th August, 1997
- 1991: UNDP-UNSO and the Sahel-Sahara Observatory Project (France), Collection of data of the "Users" Needs for Data obtained from the observation of Natural Resources e.g. Theses Technology and Innovation in East Africa 22 January, - 5 February 1992.
- 1987: GTZ-UNESCO-ANSTI/UNEP Final Report on Training Workshop on Environmental Education and Resource Management in Africa Tertiary-level Institutions - was responsible for summarizing all papers presented at the workshop and writing the Final Report, published by GTZ-UNESCO-ANSTI/UNEP, December 1987. A two week workshop.
- 1986: Chief Trainer on "Basic Concepts and Principles of Environmental Education and Training" in a joint ECA/UNEP/ESAMI Workshop, UNEP Headquarters, December 1986 - a two week workshop.
- 1984: Environmental Education Consultant for UNEP. Responsibilities: Reviewed UNEP's Programme of Action for Environmental Education and Training in Africa. Developed a Proposal for Environmental Education Regional Training Workshops in Kenya.
- 1983: Chief Trainer in Science-Biology, Ecology and Cross Cultural Trainer for CHP International, Mt. Carrol, Illinois, USA. Responsibilities: Conducted an eight week intensive Peace Corps Kenya-Stateside Teacher Training Programme.

### **Completed KU On-Line Modules**

#### **1<sup>st</sup> Semester 2020-2021 (Vetted and Submitted to Digital School)**

- EED 427 Ecological Foot Print
- EED 801 Environmental Change and Development
- EED 839 Community Project Development and Management

#### **2<sup>nd</sup> Semester (Submitted for Vetting)**

- EED 420 Environmental Quality Management Systems (EQMS)
- EED 823 Climate Change Mitigation and Adaptation
- EED 840 Urbanization and Sustainable Development

### **Conferences and Workshops Attended/ Participated in**

#### **K.U: School of Environmental Training Seminars On Line**

- 8<sup>th</sup> June 2020: Training on developing Modules on Own
- 8<sup>th</sup> June 2020: "Training on Facilitation of Blending Learning"
- 13<sup>th</sup> October 2020: "Google-Meet Training on online Teaching"
- 1<sup>st</sup> December 2020: "Training Schedule on Online CATs and Assessments"

#### **K.U: ENSED Postgraduate Seminars Presentation Participated In On Line**

- 23<sup>rd</sup> February 2021 "Postgraduate Seminar Presentations"
- 16<sup>th</sup> February 2021 "Postgraduate Seminar Presentations"
- 8<sup>th</sup> October 2020 "Postgraduate Seminar Presentations"
- 3<sup>rd</sup> September 2020 "Postgraduate Seminar Presentations"
- 27<sup>th</sup> August 2020 "Postgraduate Seminar Presentations"
- 11<sup>th</sup> June 2020: "Postgraduate Seminar Presentations"

### **K.U ENSED Departmental Meetings Participate In: On Line**

- 21<sup>st</sup> August 2020: “Departmental Meetings- Updates on complete or incomplete modules”
- 22<sup>nd</sup> February 2021: “Updates on Learning/Teaching, Blended Learning”

### **The Kenya Alliance of Resident Associations (KARA) Webinars**

- 17<sup>th</sup> November 2020: “Electromagnetic, Radiation Frequencies” -4:00-5:30pm
- 22<sup>nd</sup> April 2021: “5G Technology Forum” -4:00-5:30pm
- 28<sup>th</sup> April 2021 “Is Kenya’s Public Debt Sustainable?” -4:00-5:30pm

### **Environment Institute of Kenya (EIK Webinar)**

- 4<sup>th</sup> February 2021 International Association of Impact Assessment (IAIA) and EIK on “Covid-19 and EIA/EA Development Project Studies” 6:00-9:00pm
- 5<sup>th</sup> March 2021 EIK Annual General Meeting (Face to Face), College of Insurance, Nairobi 10:00am-4:00pm

### **Galilee Institute International (Israel) Webinars**

- 8<sup>th</sup> April 2021 “Kenya and Israel Development/Cooperation in Covid-19 Recovery” 6:00pm-8:30pm.

### **Other Workshops Attended/ Participated in**

- 14<sup>th</sup> - 18<sup>th</sup>, May 2012. Attended and contributed to the East African Quality Assurance Forum Entebbe, Uganda
- 8<sup>th</sup> - 9<sup>th</sup>, November, 2010. Attended and Contributed to the, Draft National Land Policy Convened by the Ministry of Lands, Kenya School of Monetary Studies, Kenya.
- 19<sup>th</sup> - 21<sup>st</sup>, October, 2010. Attended and Contributed to the 10th Revitalization Conference of the ICEA: Chaired Group 3 on Higher Education Networks and Links Convened by the ICEA Secretariat, Imperial Royal Hotel: Kampala, Uganda.
- 7<sup>th</sup> – 11<sup>th</sup>, September, 2010. Attended and Contributed to the Sixth Annual Conference on: Knowledge Management And Applied Technological Innovations For Sustainable Development, Kenya.
- 16<sup>th</sup> - 17<sup>th</sup>, August, 2010. Attended and Contributed to the KARI – McGill University Workshops on Enhancing Agricultural Productivity in the Dryland Areas Convened by KARI – McGill, KARI Headquarters, Nairobi, and KARI: Katumani, Machakos, Kenya.
- 19<sup>th</sup>, June, 2010. Attended and Contributed to the 20<sup>th</sup> Postgraduate Seminar For Ph.D. Graduands At Kenyatta University. Theme was, Issues in Research and Development for Regional Integration in Eastern Africa. AVU Main Hall, Kenyatta University, Kenya.
- 1<sup>st</sup>-7<sup>th</sup>, March, 2010. Attended and Contributed to the Education for Sustainable Development in the River Basin Context – Nile Region Convened by SIDA and KU, KUCC, Nairobi, Kenya.
- 21<sup>st</sup> to 24<sup>th</sup>, February 2010. Attended and Contribute to the Inter-University Council for East Africa (IUCEA): Kampala, Uganda.
- 5<sup>th</sup>-20<sup>th</sup> December, 2009. Attend and Contribute to the Climate Change Conference in Copenhagen, Denmark.
- 15<sup>th</sup>-23<sup>rd</sup> October. 2009. Attend and Contribute to the Climate Change Meetings Convened by the African Ministerial Conference on the Environment (AMCEN) in Addis Ababa, Ethiopia

- 31<sup>st</sup> August - 4<sup>th</sup>, September, 2009. Attended and Contributed to the Eastern African Sub Regional Meeting on Climate Change, Jointly Convened by the East African Community and the African Ministerial Conference on the Environment from at the City of Kigali, in Rwanda.
- 29<sup>th</sup> September, 2009. Attended and Contributed to Integrity Civil, Scientific and Stakeholder Knowledge Towards African Sustainable Energy Policy in Africa Convened by AFREPREN/FWD Meridian Hotel, Nairobi, Kenya.
- 17<sup>th</sup>-19<sup>th</sup>, August, 2009. Attended and Contributed to the East African Association for Impact Assessment (EAAIA): Discussed contributions of the Kenya Institute of Environmental Assessment (KIEA), Convened by IUCN, Dar-es-salaam, Tanzania.
- 17<sup>th</sup> - 22<sup>nd</sup>, May, 2009 Attended and Contributed to the Ghana International Association For Impact Assessment (IAIA) Annual Conference Accra, Ghana on Assessing Impacts of Environmental Impacts of Agriculture on Environment And Biodiversity, Kenya.
- 28<sup>th</sup>-30<sup>th</sup>, April 2009. Attended and Contributed to the Kenyatta University First Research Conference on Moving Research to Wealth Creation AVU Main Hall, KU: Nairobi, Kenya.
- 20<sup>th</sup> April, 2009. Attended and Contributed to Social Accountability Dialogue with CSOs Convened by the World Bank Office, Nairobi, Kenya.
- 6<sup>th</sup>-7<sup>th</sup>, April, 2009. Attended and Contributed to a Regional Workshop on National Climate Change Strategy Kenya School of Monetary Studies.
- 5<sup>th</sup>-9<sup>th</sup>, February, 2009. Attended and Contributed to the Civil Society Consultative Meeting Convened by UNEP, The Global Civil Society Forum, UNEP: Nairobi, Kenya.
- 29<sup>th</sup> July - 2<sup>nd</sup> August, 2008. Attended and Contributed to the Moi University Fourth Annual Conference, Conference Theme: Resource Utilization for Sustainable Growth and Development in the 21<sup>st</sup> Century Key Note Topic Address: Conflict Resolution in Planning and Management of Environmental Resources.
- 19<sup>th</sup> - 24<sup>th</sup>, October, 2007. Attended and Contributed to The African Civil Society Consultative Meeting In Cairo, Egypt.
- 11<sup>th</sup>-12<sup>th</sup>, June, 2007. Attended and Contributed to a Workshop on Working to Strengthen Our NGO Sector Convened by the NGO Coordination Board and NGO Council of Kenya: Panafric Hotel, Nairobi, Kenya.
- 5<sup>th</sup> May, 2007. Citywide Stakeholders Workshops on the City of Nairobi Environment Outlook Report (CNEOR) at the City Council of Nairobi Presented Major findings of the study, and Key Challenges facing the City of Nairobi and Policy options
- 16<sup>th</sup> April, 2007. Launching of the City of Nairobi Environment Outlook Report (CNEOR) at UNEP- Presented Major findings of the study, and Key Challenges facing the City of Nairobi and Policy options
- 14<sup>th</sup> November, 2006.Sustainable Development and Environmental Conservation Discussion at the US Embassy, participated in Roundtable Discussion with Prof. Terry Anderson, renowned American Conservationist.
- 6<sup>th</sup>-17<sup>th</sup> November 2006-United Nations Climate Change Conference, COP 12 and COP/MOP 2, Nairobi, was: a) A panellist on the Side Event on Impacts, Vulnerability and Adoption to Climate Change in African Cities, and b) Discussant and Presenter on Human Vulnerability to Environmental Change in relation to the AEO Cities: The City of Nairobi Environment Outlook Draft Report.”.



- 8<sup>th</sup> - 9<sup>th</sup>, November 2006. The Draft National Land Policy Professional Workshop, Kenya School of Monetary Studies (KSMS) Guaracha, Nairobi, Contributed in Environmental and Developmental Aspects
- 31<sup>st</sup> August -1<sup>st</sup> September 2006. Nairobi River Basin Programme Stakeholders Workshop, 26th September, 2006, Gigiri Complex, Nairobi Kenya. Contributed in discussions of the City of Nairobi Environment Outlook Draft Report.
- 23<sup>rd</sup> August, 2006. The Eighteenth Climate Outlook Forum for the Greater Horn of Africa, Intercontinental Hotel, Nairobi. Contributed in discussing Pollution and Environment.
- 5<sup>th</sup> June, 2006. Kenya Science Teachers College (KSTC) Nairobi, 2006 World Environment Day (WED) Seminar and Celebrations, Delivered Keynote Address on Let's Save our Dry Lands.
- 16<sup>th</sup>-20<sup>th</sup>, January, 2006. UNEP Training Manual for Integrated Environmental Reporting in Africa Review and Revision Workshop, Pretoria, Chair of Session 3, Republic of South Africa.
- 23<sup>rd</sup> August, 2005. Japan International Corporation Agency (JICA) and Ministry of Roads and Public Works and Ministry of Local Government on the Development of the Master plan for the City of Nairobi, Sixth Stakeholders Workshop, Kenya Science Teachers College. Discussed and contributed to the EIA Studies on the Missing Links Roads Nos, 3, 6 and 7 (Westlands, Kilimani, Lavington): Kenya.
- 9<sup>th</sup>-12<sup>th</sup>, May, 2005. UNEP-NEPAD Workshop on developing A Network of Centres of Excellence for Water sciences and Technology. Contributed in the area of International Development and Sustainability. UNEP: Nairobi, Kenya.
- 3<sup>rd</sup> February, 2005. Japan International Corporation Agency (JICA) and Ministry of Roads and Public Works and Ministry of Local Government on the development of the Master Plan for the City of Nairobi, Second Stakeholders Workshop. Kenya School of Monetary Studies. Discussant on contributions of EIA Studies on Roads: Kenya.
- 10<sup>th</sup>-11<sup>th</sup>, June, 2004. UNEP consultative Expert meeting: Senior Academics in African Universities on Mainstreaming Environment into the University Education. Nairobi. Discussant on EE&T and chaired session on the Development of a Network of Academics for the Environments in Africa – Proposal: Kenya.
- 23<sup>rd</sup>-29<sup>th</sup> March, 2004. Headed African CSO's to 5<sup>th</sup> Global Civil Society to the 8<sup>th</sup> Special session of the UNEP Governing Council, Jeju, South Korea Drafted the African CSO's Presentation and contributed to the 5<sup>th</sup> Global Civil Society statement which was presented to the UNEP GC.
- 8<sup>th</sup>-12<sup>th</sup> December, 2003. Headed Kenyan Delegation of CSO's to Pan African Implementation and Partnership Conference on Water (Panafcon) Addis Ababa. Facilitated the African CSO's meetings and was commissioned to Draft the African CSO's Report on Panafcon Conference. Elected to be Chair and head African CSO's to UNEP's 8<sup>th</sup> Governing Council special session, Jeju South Korea 2004.
- 12<sup>th</sup>-15<sup>th</sup>, September, 1999. Launching of the Network of African Environmental Lawyers. UNEP, Nairobi: Kenya.
- 25<sup>th</sup>-29<sup>th</sup>, August, 1999. Kenyatta University Senior Staff Management Seminar: Leadership and Management of Finance and Development. Travellers' Beach Hotel: Mombasa, Kenya.
- 30<sup>th</sup> November 1998. KWS Workshop on interpretation of Animal Counts in the Kenya Rangelands, 1977-1997, Ivory Lounge, Safari Park Hotel: Nairobi, Kenya
- 5<sup>th</sup>-9<sup>th</sup>, August, 1998. NESDA Strategic Planning Workshop: Yamoussukro, Ivory Coast.

- 13<sup>th</sup>-15<sup>th</sup>, July, 1998. The Meeting for the Establishment of Science and Technology of the IGAD Sub-Region in the context of the Convention on Desertification, Mt. Lenana Hotel: Nairobi, Kenya.
- 1<sup>st</sup> July, 1998. Annual General Meeting of the Kenya Working Group on Biodiversity. Discussant on NEAP and Biodiversity, National Museums of Kenya.
- 19<sup>th</sup>-20<sup>th</sup>, February, 1998. A National Workshop on Access to Genetic Resources and Benefit Sharing, organised by World Wide Fund for Nature, National Environment Secretariat (NES) and the Kenya Working Group on Biodiversity (KWGB). Discussant on NEAP and Biodiversity, Chaired Session 7, Nairobi Safari Club, Kenya.
- 12<sup>th</sup> February, 1998. Workshops for the Third Highway Sector Project: Sectoral Environmental Assessment organised by the Ministry of Public Works and Housing. Discussant on NEAP and EIA Guidelines and Procedures, Fairview Hotel: Nairobi, Kenya.
- 26<sup>th</sup> - 29<sup>th</sup>, January, 1998. Workshop on Environmental Assessment and Technical Studies: Mutonga/Grandfalls Hydro-power Project, organized jointly by the Ministry of Energy and Japan International Co-operation Agency (JICA). Discussant on Developing National EIA Guidelines and Procedures, Kenya College of Communications Technology, Kenya.
- 26<sup>th</sup>-27<sup>th</sup>, August, 1997. Orientation Course for the new DEPOs: Gave a presentation on Introduction to NEAP, Karura Forest Department Headquarters: Nairobi, Kenya.
- 18<sup>th</sup>-19<sup>th</sup>, August, 1997. Customs Officers' Workshop on the Montreal Protocol on Substances that Deplete the Ozone Layer, organised by the Ozone Layer Office, Ministry of Environment and Natural Resources, Chaired Session III, Kenya College of Communications Technology (KCCT), Kenya.
- 22<sup>nd</sup>-23<sup>rd</sup>, July, 1997. Workshop on Climate Change Mitigation Options: Course on the implementation of the UNDP/GEF Project on Capacity Building in Sub-Saharan Africa to respond to the United Nations Framework Convention on Climate Change. Organized by the National Environment Secretariat, Kenya College of Communications Technology (KCCT), Kenya.
- 23<sup>rd</sup>-24<sup>th</sup>, May, 1997. EAEN 7th Annual Conference: Sustainability and Environmental Networking in Eastern Africa. Gave a keynote address, National Museums of Kenya.
- 29<sup>th</sup>-30<sup>th</sup>, April, 1997. Workshop on the Vienna Convention and Implementation of the Montreal Protocol: Organised by the Ozone Layer Project, Ministry of Environment and Natural Resources. Chaired Session II of the Workshop. Kenya College of Communications and Technology – Mbagathi: Nairobi, Kenya.
- 17<sup>th</sup>-18<sup>th</sup>, April, 1997. Roads 2000 Environmental Guidelines Workshop: Organised by Consulting Engineers, Grabowsky & Porta BV on behalf of the Ministry of Public Works and Housing. Gave comments on the Draft Roads 2000 Environmental Study. Ngong Hills Hotel, Nairobi.
- 7<sup>th</sup>- 8<sup>th</sup>, April, 1997. Implementation Workshop on Shelter and Human Settlement: Utalii Hotel, Nairobi.
- 2<sup>nd</sup> - 3<sup>rd</sup>, April, 1997. NESDA Inaugural Board of Directors Meeting: Abidjan, Cote D'Ivoire.
- 31<sup>st</sup> March - 2<sup>nd</sup> April, 1997. Agricultural Sector Investment Programme (ASIP) Workshop, Kenya College of Communications Technology (KCCT) Mbagathi: Nairobi, Kenya.

- 26<sup>th</sup>-27<sup>th</sup>, February, 1997. Workshop on Small Scale Industries and Environmental Pollution by the Housing and Building Research Institute (HABRI), Nairobi University and the Institute of Housing Studies (IHS), Netherlands, Pan Africa Hotel, Nairobi, Kenya.
- 29<sup>th</sup> February, 1997. National Workshop on Awareness Raising on Climate Change: Organised by NES, Ministry of Environment and Natural Resources, Nairobi Safari Club, Kenya.
- 11<sup>th</sup>-12<sup>th</sup>, February, 1997. Workshop on Environmental Sector Reforms: Kenya College of Communications Technology, (KCCT) Mbagathi, Kenya.
- 27<sup>th</sup> January -7<sup>th</sup> February 7, 1997. Member, Kenya Delegation, UNEP Governing Council Meeting 19th Session, drafted interventions on GEF and UNEP, Governance of UNEP etc., Gigiri, Nairobi.
- 20<sup>th</sup>-21<sup>st</sup>, January, 1997. Workshop on Impacts Vulnerability, and Adaptations to Climate Change organised by the National Environment Secretariat: Milimani Hotel, Nairobi, Kenya.
- 16<sup>th</sup> January, 1997. Workshop on Remote Sensing and GIS Applications to Natural Resources and Environmental Management organised by Remote Sensing Information Limited (RSI): Muthaiga Golf Club, Kenya.
- 14<sup>th</sup>-15<sup>th</sup>, January, 1997. Rio+5 Process: Regional Consultation - East and Southern Africa, organised by Earth Council and KENGO: Discussant on Progress since the Rio Summit, 1992. Presented An Overview on the Kenya National Environment Action Plan (NEAP) and Implementation of Agenda 21. Landmark Hotel: Nairobi, Kenya.
- 4<sup>th</sup>-15<sup>th</sup> November, 1996. Head of Delegation, Conference of Parties 3, Convention on Biological Diversity, Buenos Aires, Argentina: Developed interventions and presented Kenya's Statement at the Ministerial Segment Session,
- 8<sup>th</sup>-10<sup>th</sup>, October, 1996. Global Environment Facility (GEF) Council Meeting: Discussant on Collaboration between the GEF Secretariat and the Secretariat on the Convention on Biological Diversity, among others, held in Washington D.C., U.S.A.
- 28<sup>th</sup>-31<sup>st</sup>, August, 1996. Workshop on Structuring the Postgraduate Diploma Programme and Certificate Courses in Environmental Studies. Organised by Moi University, School of Environmental Studies, Lake Bogoria. Discussant on NEAP Contributions to Environmental Studies Curriculum: Kenya.
- 3<sup>rd</sup>-14<sup>th</sup>, March, 1996. Orientation Seminar for Newly Appointed District Environment Officers, organised by the Office of the President. Discussant on NEAP Contributions to the Environment and Development, Embu, Kenya.
- 3<sup>rd</sup>-7<sup>th</sup>, March, 1996. Moi University, School of Environmental Studies (MUSES) Review Workshop: Midwest Hotel, Kericho. Discussant and Resource Person on Environmental Studies Curriculum: Kenya.
- 6<sup>th</sup>, March, 1996. Lake Naivasha Management Plan Workshop organised by Kenya Wildlife Service: Discussant on NEAP's Contribution. Officially closed the Workshop. Naivasha Wildlife Institute: Kenya.
- 3<sup>rd</sup>, February, 1996. Workshop on Environmental Impact Assessment (EIA) organised by the Ministry of Local Government, Stem Hotel: Kenya.
- 12<sup>th</sup>-15<sup>th</sup>, September, 1995. Sustainable Funding Initiative Workshop: Hosted by the European Centre for Development Policy Management (ECDPM). Presented and discussed the Kenya NEAP Project's Proposal for Potential Funding Mechanisms. Maastricht, Netherlands.
- 28<sup>th</sup> August, 1995. Official Opening of the Environmental Training of Trainers Seminar organised by Federation of Kenya Employers, Milimani Hotel: Nairobi, Kenya.

- 1<sup>st</sup> August, 1995. Workshop on the National Tourism Master Plan, organised by Ministry of Tourism and Wildlife, Nairobi Serena Hotel, Kenya.
- 24<sup>th</sup> - 30<sup>th</sup>, July, 1995. UNESCO UNEP Workshop on Biodiversity Conservation of Indigenous Medicinal Plants and Wild Relatives of Food Crops. Presented a Paper on The Implementation of Medicinal Plants in the NEAP. Nairobi and Amboseli, Kenya
- 18<sup>th</sup> - 25<sup>th</sup>, June, 1995. Course on Integrating Development and Environment: Broadening the Tools of Environmental Assessment to Enhance All Decision Making, Cape Town, South Africa.
- 18<sup>th</sup> - 21<sup>st</sup>, April, 1995. World Bank's Africa Region Workshop. Discussant: Post UNCED activities, including NEAP activities in Africa, organized by the Scandinavian College, Naivasha: Kenya.
- 26<sup>th</sup> -30<sup>th</sup> June, 1995. International Association for Impact Assessment Conference (IAIA) - Durban, South Africa.
- 23<sup>rd</sup> - 29<sup>th</sup>, October, 1994. Strategies for Successful Resources Management (Forestry/Agroforestry) in Arid and Semi-arid Lands (ASALs) of Kenya. Presented an Overview of the NEAP Process in Kenya, Garden Hotel, Machakos, Kenya.
- 23<sup>rd</sup> - 27<sup>th</sup>, May, 1994. Seminar on: Review of Environmental Legislation of Kenya - GOK - UNEP, Golden Beach Hotel, Kwale District. Made contributions from the Kenyan NEAP Perspectives on Environmental Law Harmonization Process and Institutional Framework: Kenya.
- 16<sup>th</sup> - 18<sup>th</sup>, May, 1994. Thematic Workshop on Indicators of Sustainable Development, organized by NESDA, Gambia.
- The Kenyan National Environment Action Plan (NEAP) Provincial Workshops:
  - 21<sup>st</sup> – 24<sup>th</sup>, March, 1994 for Nyanza and Western Provinces, Imperial Hotel, Kisumu;
  - 28<sup>th</sup> – 31<sup>st</sup>, March, 1994, for Nairobi and Central Provinces, at Green Hills Hotel, Nyeri;
  - 5<sup>th</sup> – 8<sup>th</sup>, April, 1994 for Eastern and North Eastern Provinces, Garden Hotel, Machakos;
  - 11<sup>th</sup> -14<sup>th</sup>, April, 1994 for Coast Province, Reef Hotel, Mombasa.
- Presented the Rationale, Objectives, Scope and Value of the Kenya NEAP and how Kenyans can Participate and Contribute to its Process in all the workshops: Kenya.
- 21<sup>st</sup> - 22<sup>nd</sup>, September, 1993. Global Environment Facility (GEF), Seminar on Incremental Environmental Costs World Bank, Washington D.C USA.
- 4<sup>th</sup> September, 1992. International Council for Research in Agro-Forestry (ICRAF), Seminar Rio Earth Summit: Forest Principles and Agroforestry Guest speaker, Dr. M. K. Tolba.
- 10<sup>th</sup> - 17<sup>th</sup>, July 1992. UNEP-Kenya Girl Guide, Association Youth Focal Point Environmental Conservation Seminar, presented a paper, Curbing Pollution in Africa and chaired the first and second sessions, Methodist House, Nairobi, Kenya.
- 20<sup>th</sup> -22<sup>nd</sup>, March 1992. New England Environmental Annual Conference Discussants in EE and its Development in Kenya and served in a panel EE for Sustainable Development. Tufts University, Massachusetts, USA.
- 12<sup>th</sup> August-14<sup>th</sup> September, 1991. Member, Kenya Delegation, Third Preparatory Committee on the UN Environment and Development Conference (UNCED), drafted interventions on: "Education, Training and Awareness for Sustainable Development," Science for Sustainable Development" and "Transfer of Technology". Geneva, Switzerland.
- 29<sup>th</sup> June - 4<sup>th</sup> July, 1991. UNESCO, the International Training Seminar on Incorporation of Environmental Education (EE) into Secondary Schools Curricular, presented (i) a paper

on the Incorporation of EE into the Secondary Schools Curricular in Kenya and (ii) two prototypes of curriculum development: one for EE for grades 7-12 and one for pre-prototypes of curriculum development: one for EE for grades 7-12 and one for pre-service teacher training for these grades in Africa. Cairo Sheraton, Egypt.

- 7<sup>th</sup> - 8<sup>th</sup>, June 1991. East African Environmental Network First Annual Conference, Chaired the First Session of Paper Presentations. National Museum of Kenya, Nairobi, Kenya.
- 20<sup>th</sup>-31<sup>st</sup> May 1991. Member of the Kenya Delegation, 16th UNEP Governing Council, drafted interventions on: "Environmental Education and Training, proposed UNEP's World Environment Academy etc., Gigiri, Nairobi.
- 29<sup>th</sup> April – 3<sup>rd</sup> May, 1991. UNESCO/Kenya NatCom for UNESCO Workshop on GEO-Information for Resource Management of Biosphere: Amboseli Biosphere Reserve. Discussant on Contribution of Environmental Education to Biosphere Management. Chaired two sessions. Gigiri-Amboseli National Park, Kenya.
- 26<sup>th</sup> February, 1991. Environmental Liaison Centre International, Seminar on Global Warming in an Unequal World: Based on the Study on World Resources Institute/UNEP/UNDP World Resources 1990/91. Discussant on the value of Environmental Education and Resource Conservation. Nairobi, Kenya.
- 3<sup>rd</sup> - 6<sup>th</sup>, December 1990. Second Round Table Meeting for UNEP Regional Youth Focal Points. Discussant on the Contribution of Youth at the Tertiary Level towards Environment and Development in Kenya. Gigiri: Nairobi, Kenya.
- 27<sup>th</sup> August, 1990. IUB-CBE Seminar on Biological, Education for Sustainable Development. Discussant on Environmental Education, Gigiri UNEP, Kenya.
- 11<sup>th</sup> August, 1990. Eco-1992 Public Forum on Environment and Development. Discussant on contributions of EE to development. The Centre for Our Common Future/UNCED, Serena Hotel, Nairobi, Kenya.
- 4<sup>th</sup> - 7<sup>th</sup>, June, 1990. The Colloquy on the Launching of the Sahel-Sahara Observatory on Drought and Desertification. Discussant on Natural Resources. Meridian Hotel, Paris, France.
- 2<sup>nd</sup> - 5<sup>th</sup>, May 1990. International Conference on Global Warming and Climatic Change: African Perspectives, UNEP, Institute of Research and Public Policy (Canada), Rockefeller Foundation (New York) Stockholm Environment Institute (Sweden). Chaired a session on Research and Public Awareness. Gigiri, Nairobi, Kenya.
- 8<sup>th</sup> - 11<sup>th</sup>, January, 1990. The Kenya National Man and Biosphere Committee UNESCO/ITC GIS Feasibility Study Seminar. Discussant on Environmental Education. Gigiri and Amboseli National Park, Kenya.
- 17<sup>th</sup> October -17<sup>th</sup> November, 1989. Member, Kenya Delegation, 25th General Conference of UNESCO, Rapporteur, Kenya Group Commission III, Science for Progress and Environment. Drafted a series of interventions on Science, Environment and Technology.
- 3<sup>rd</sup> - 5<sup>th</sup>, May 1989. National Symposium on Environmental Studies, Moi University. Discussant on Curriculum development for the Diploma, Masters and Ph.D. Programmes, Kabarnet Hotel, Baringo District, Kenya.
- 20<sup>th</sup> - 22<sup>nd</sup>, February, 1989. UNEP Regional Office for Africa Seminar on Networking and Establishment of Centres of Excellence in Environmental Studies/Education. UNEP Headquarters, Nairobi, Kenya.

- 8<sup>th</sup> - 11<sup>th</sup>, March 1988. Seminar on Science Education for National Development. Discussant of science education and environmental education papers, Kenya Science Teachers College (KSTC), Nairobi, Kenya.
- 12<sup>th</sup> - 15<sup>th</sup>, January, 1988. Seminar on UNEP Regional Youth Focal Points. Discussed Kenyatta University's Centre for Environmental Education Activities and its contribution to the Youth: UNEP Headquarters, Kenya.
- 7<sup>th</sup> - 10<sup>th</sup>, November, 1988. UNESCO-BREDA Consultation on Improvement of Secondary Education. Discussant on curriculum development aspects as they relate to the environment and science education, Kenya Institute of Education, Nairobi, Kenya.
- 15-26 May 1987: Member of the Kenya Delegation, at the UNEP Governing Council, Nairobi,
- 13<sup>th</sup> - 26<sup>th</sup>, April, 1986. Sub-regional Workshop on Teacher Training in Environmental Education for Africa. Discussant, materials developer and resource person for environmental education training. Kenya Science Teachers College, Nairobi, Kenya.
- 22<sup>nd</sup>- 24<sup>th</sup>, October and 13<sup>th</sup> – 14<sup>th</sup>, November 1986. A Workshop to Develop Environmental Education: Syllabus for Diploma Colleges. Contributed to strengthening the syllabus. Kenya Institute of Education, Nairobi, Kenya.
- 15<sup>th</sup> August, 1986. The National Seminar on Infoterra, an Information Exchange Networking on the Environment - NES, Kenya Teachers Training College (KTTC). Discussant on EE Networking and chaired of the Second session. Nairobi, Kenya.

### **Supervision of Postgraduate Students**

#### **Completed Ph.D. Candidates**

- Twalibu, Nzanzu. Proposal: “Protected Areas, Climate change, Ecological Integrity and the Emergence of Zoonotic Diseases in East Africa, A Case Study of Queen Elizabeth Conservation Area, Uganda. January, 2021.
- Otieno, Margaret. “Exploring Strategies for Addressing Climate Change: The Role of an Education for Sustainable development Perspective in Lake Victoria Catchment, Kenya.” Ph.D. Thesis, Kenyatta University, 2015.
- Wemali, Everlyn Nyambiri Chitechi. “Contribution of Cultivated African Indigenous Vegetables to Agro-Biodiversity Conservation and Community Livelihood in Mumias Sugar Belt, Kenya.” Ph.D. Thesis, Kenyatta University, 2014.
- Ojok, Julius. “Municipal Solid Wastes Management Challenges and Opportunities: A case of Mpererwe Landfill, Kampala, Uganda”. Ph.D. Thesis, Kenyatta University, 2011.
- Koskey, P. “Indigenous Knowledge and Conservation Planning “, Ph.D. Thesis, Kenyatta University 1997.
- Kerich, R. "A Study of Deforestation and Decimation of Plant and Animal Species in Selected Regions of Kericho District, Kenya East Africa," Ph.D. Thesis, Kenyatta University, 1991.
- Owano, Alice, “Education for Employments: The Contributions of the Youth Polytechnic Programme to Youth Employment in Kenya” Ph.D. Thesis, Kenyatta University 1988.

#### **Completed Masters Candidates**

- Kaburu, J. Munene. “Assessment of Adaptive Strategies to Flood Challenges in Mukuru Slum, Nairobi City County, Kenya”, September, 2020.
- Ndiwa, J. Kimtai. “Influence of Climate Variability on the Prevalence of Dengue Fever in Mandera County, Kenya”, November, 2018.
- Ngare, O. Innocent, “Farmers’ Perceptions on the Effects of Climate Variability on Dairy Farming in Marsaba North, Nyamira County, Kenya”, March 2017.

- Wato, Molu. "Effects of Climate Variability on Livestock Production and Coping Strategies in Maikona Location, Marsabit County, Kenya," November 2016.
- Otieno, Namwaya. "Mass Media and Effluent Waste Management in Nairobi", October, 2016.
- Ngulu, James K. "An Assessment of Factors Influencing Adoption of Improved Mango Varieties As An Adaptation to Climate Variability in Kibwezi Division, Kenya", June, 2014.
- Waudu, S. Nawanjaya, "Impacts of Fuelwood and Coping Strategies Among Rural Households in Lurambi District, Kakamega County, Kenya", Nov. 2013.
- Mamo, B. Mamo, "Promotion of Environmental Education through Environmental Committees: A Case of Korr Location, Marsabit County Kenya", August, 2013.
- Njoka, Stephen N. "Assessment of the Hydrological and Land Use/Land Cover Changes in Mutonga Watershed, Kenya" Oct. 2011.
- Ouma, Caleb O. "Assessment of the Post Drought Recovery Strategies among Pastoralists in Turkana Central District", May, 2011
- Njoka, Stephen. "Hydrological and Land-use Variations in Mutunga River Catchment in the Tana Basin, Kenya," 2006/2007.
- Miranga, Ben O. "Environment and Energy Sources: A Case Study of Domestic Energy in Nairobi, Kenya" 2005/06.
- Wafula, Miriam N. "Electricity Utilization and Conservation at Kenyatta University" 2005/06.
- Ngetich, K. "The Impact of Dairy Effluence on the Kipsonoi River Waters at Sotik, Bomet District, Kenya" M.Env.S. 1996.
- Otieno, D. B. "A Survey of the Role of Primary School Women Teachers in Environmental Education and Awareness Building in Nairobi, Kenya" a M.Ed. (PTE) Project, 1992.
- Mutinda J. W. "A Study of Attitudes of Primary School Pupils from the Slums of Nairobi towards Environmental Problems" M.Ed. (PTE) Project, 1992.
- Cheruiyot, H K. "A Study of Primary Teachers' Attitudes towards Environmental Education in Bureti Division, Kericho" M.Ed. (PTE) Project 1991.
- Gatonye, M. K. "A Study of Home Science Teachers' Perceptions of Domestic Environmental Pollution in Limuru Division Primary Schools, Kiambu" M.Ed. (PTE) Project, 1991.
- Langat, J. K. "A Study of Materials Availability for Teaching and Learning Environmental Education in Primary Schools in Emkwen Location, Bomet Division, Kericho District, Kenya" M.Ed. (PTE) Project, 1990.
- Wambua, L. M. "A Survey of Resources for Teaching and Learning Environmental Education in Primary Teachers Colleges in Kenya, "M.Ed. (PTE) Degree Project, 1988.
- Manguriu, D. "A Study of a Possible Recycling of Paper Wastes at Kenyatta University, "2nd M.Ed. Degree Project, Kenyatta University, 1988.
- Mwendwa, O. "Environmental Education as an Out of School Activity with Focus on Lake Nakuru, "P.G.D.E. Project, Kenyatta University, 1988.
- Muthiani, T. "The Impact of Industrial Development on the Water Quality of Ruiru River, "2nd M.Ed. Degree Project, Kenyatta University, 1987.
- Kuria, S. M. "An Investigation of Secondary School Teachers' and Form Four Students' Attitudes towards Environmental Education in Secondary Schools of Kiambu District, "P.G.D.E. Project, Kenyatta University, 1987.
- Moturi, H. "The Role of NGO in Environmental Conservation Education and Training: A Case Study of Kenya Energy Non-governmental Organizations "2nd M.Ed. Degree Project, Kenyatta University, 1986.



- Rimbui, Z. "Evaluation of Environmental Education Programme at the Kenya Science Teachers College in Nairobi, Kenya, "2nd M.Ed. Degree Project, Kenyatta University, 1986.
- Muthiani, T. "A Survey of Resources for Teaching and Learning Environmental Education in the Diploma College in Nairobi, "1st M.Ed. Degree Project, Kenyatta University, 1986.

### **Professional / Consultancy/Networks and Affiliation of Professional Bodies**

#### **Collaborations and Editorial Boards**

- **1999 – 2004: Member, International Advisory Board** of the African Journal of Environmental Assessment and Management – An International Referred Journal, 2021
- **1993 – 1999: Environmental Education Research Journal: An International Refereed Journal.**

#### **External Examination**

- 2017-2020: External Examiner, Kyambogo University, Uganda
- 2018-2019: External Examiner, Northwest University, South Africa
- 2010-2013: External Examiner, Kyambogo University, Uganda
- 2000-2003: External Examiner, Makerere University, Uganda
- 1997-1999: External Examiner, Department of Geography (Environment Science Course), University of Nairobi
- 1990 -1994: External Examiner, Department of Range Management, University of Nairobi.

#### **Affiliations**

- Environmental Institute of Kenya (EIK) Membership No. 33, 2021
- International Ecumenical Movement, Kenya (IEMK)
- Bible Study Fellowship (BSF) International
- United Kenya Club (UKC)
- Kericho Golf Club (KGC)
- Kenya Alliance of Resident Association (KARA)

#### **Community Service and Other Engagements**

- Member, Catholic Peace and Justice Commission
- 2011-2013 and 2004-2007: Chairman, Environment Institute of Kenya (EIK, formerly KIEA).
- 2010-2016: Member, Board of Directors, United Kenya Club, Chairman of Governance and Membership Committee; Member of Development and Environment Committee.
- 2009-Present Member, International Ecumenical Movement of Kenya (IEMK); Member of Environment Committee

### **Administrative Positions Held**

#### **Kenyatta University**

- 2019-Present: Chairman, Kenyatta University Vice Chancellors Tree Planting Committee
- 2020: Chair of Research and Innovation Committee, Department of Environmental Sciences and Education
- Jan –: 2014: Chairman, Curriculum Development and Review Committee, Department of Environmental Education: Undergraduate and Postgraduate Programmes – KU;
- May – July, 2014: Chair, Animal Welfare Technical Committee, Department of Environmental Education: Developed and Implemented the First Animal Welfare Workshop, at KU, June 10-12, 2014.

- Jan 29, 2007 - April 27, 2007: Chair, KU Committee on Registration and Duration of PhD Programme.
- Nov 10, 2003 – July 9<sup>th</sup>, 2007: Chair, Vice Chancellor's Committee to Establish a Kenyatta University, Kitui Campus
- July 09, 2007:-Dec. 2007 Co-Chair, Vice Chancellor's Steering Committee on Kenyatta University, Kitui Campus
- July 02, 2007:-Dec, 2007 Chair, Vice Chancellor's Committee on Harmonization of Criteria Awards From various Schools of Kenyatta University.

#### **Other Administrative Positions Held**

- 2011-2013 and 2004-2007: Chairman, Environment Institute of Kenya (EIK, formerly KIEA).
- 2010-2016: Chairman, United Kenya Club Governance and Membership Committee;
- 1995 –1999: National Chairman, Steering Committee, Biosphere Reserves for Biodiversity Conservation and Sustainable Development in Anglophone Africa (BRAAF) UNESCO Project.
- 1998 - 2001: Vice-Chairman, Executive Committee of the Kenya Working Group on Biodiversity (KWGB), July 19<sup>th</sup>, 1998.
- 1996 - 2002: Chairman, Board of Governors, Cheptalal Secondary School, Bureti District.
- 1996 –2015: Chairman, Sustainable Development and Environment Network of Kenya (SENKE)
- 1995 - 2007: National Chairman, Steering Committee, Biosphere Reserves for Biodiversity Conservation and Sustainable Development in Anglophone Africa (BRAAF) - UNESCO Project.
- 1989 - 2000: Vice-Chairman, Man and the Biosphere Executive Committee, Kenya National Commission for UNESCO: Made significant contributions to the establishing of the Amboseli National Park as Biosphere Reserve
- Dec., 9 – 18, 2009: Part of the Kenyan Delegation, participated in Copenhagen, Denmark on Climate Change Conference.
- 2004–2007: Elected Chairman, Kenya Institute of Environmental Assessments (KIEA)
- 2009-2014: Member, Committee on Food Security, Gender and Resilience Research for McGill University and KARI (now KALRO). Represented KU-SES on Environment and Sustainable Development issues.
- 1999 – 2007: Member of the Kenyan Delegation Teams, regionally, and national including preparing meetings for WSSD, IFG, and other processes, which took place in Montreal, New York, Berlin, Nairobi, Johannesburg, Bali Indonesia, Berlin Geneva, Addis Ababa, Sweden and I headed or deputized a number of delegations: Examples: Kampala, UNEP/GC/GMEF 24, Nairobi, Feb. 5-9, 2007
- 1999 – 2004. Member, International Advisory Board of the African Journal of Environmental Assessment and Management – An International Referred Journal.
- 1998 - 2001: Member, International Advisory Board, African Journal of Environmental Assessment and Management (AJEAM).
- 1998 - 2001: Member, Board of Management of Kenya Forestry Research Institute.
- 1998 - 2001: Elected Vice-Chairman, Executive Committee of the Kenya Working Group on Biodiversity (KWGB), July 19<sup>th</sup>, 1998.
- 1996 - 2000: Member, Board of Directors, Network for Environment and Sustainable Development in Africa (NESDA).
- 1999 – 2002: Member, Board of Governors, Kericho High School.
- 1996 - 2002: Chairman, Board of Governors, Cheptalal Secondary School, Bureti District.

- 1994 - 2010: Member: Board of Directors, AMI Development Services Ltd.
- 1994 –1997: Member, Board of Governors, National Museums of Kenya.
- 1993 – 1999: Environmental Education Research Journal: An International Refereed Journal.
- 1998: Member, Kenya Delegation, Fifth Special Session of the Governing Council of the United Nations Environment Programme, UNEP - Gigiri, 20 - 22 May, 1998
- 1998: Member, Kenya Delegation, - UNEP Governing Council, 2nd Meeting of High Level Committee of Ministers and Officials of Environment. UNEP Headquarters, 2 - 4 March, 1998.
- 1997: Member, Kenya Delegation United Nations Nineteenth Special Session of the General Assembly on the Overall Review and Appraisal of the Implementation of Agenda 21, New York, July 23 - 27, 1997.
- 1997: Member, Kenya Delegation, 16th Session of the UN Commission on Human Settlements Meeting, UNEP - Gigiri, 28th April - 7th May, 1997.
- 1997: Member, Kenya Delegation to the Third Regional Biosphere Reserve in Anglophone Africa (BRAAF) Seminar, Cape Coast, Ghana, March 9 - 15, 1997.
- 1996: Head of Delegation, High Level Panel of the Commission on Sustainable Development Meeting: Discussant on Transportation, Urban Pollution and Energy Efficiency in the Context of Sustainable Development in Kenya. Represented the Kenya's Minister for Environment and Natural Resources, New York, U.S.A., April 20 - 27, 1996.
- 1996: Member, Kenya Delegation, Global Environment Facility (GEF) II, Council Meeting held in Washington D.C., U.S.A., April 1 - 4, 1996, Senior Environmental Advisor, East African Constituency.
- 1995: Member, Kenya Delegation, Inter-governmental Negotiating Committee on Desertification, Nairobi, August 7 - 18, 1995.
- 1995: Member, Kenya Delegation, GEF II Council Meeting WDC, USA. Head of Delegation, May 2nd - 5th, 1995.
- 1995: Head of Kenya Delegation, NESDA Meeting, Chaired "Institutional Arrangements for Plan Implementation and Capacity Development" Session, Addis Ababa, Ethiopia, March 28th - 31st, 1995.
- 1994: Member, Kenya Delegation, Preparatory Meeting for the Sixth Meeting of the Parties to the Montreal Protocol on Substances that Deplete the Ozone Layer Held at Nairobi (UNEP) from 3rd - 7th October, 1994.
- 1994: Head of the Kenya Delegation to the IGAD Sub-Regional Workshop for High Level Policy Makers on the International Convention to Combat Desertification in those countries experiencing serious drought and/or desertification, particularly in Africa, Khartoum Sudan, 28 - 30 September, 1994.
- 1994: Member, Kenya Delegation, GEF II, Council Meeting, Deputy Head of Delegation, Washington D.C. USA July 11-14, 1994.
- 1994: Member, Kenya Delegation, UNEP 4th Special Governing Council Meeting to adopt the GEF II and its establishment, Gigiri, Nairobi, June 18, 1994.
- 1994: Member, Kenya Delegation, Network for Sustainable Development in Africa (NESDA) on "Indicators of Sustainable Development). Head of Delegation, The Gambia, Banjul, May 16-20, 1994. Chairman of Session "Indicators for Sustainable Development for Forest Biomass" and Discussant on "Development of the Kenyan NEAP".
- 1994: Member, Kenya Delegation, GEF II Final Restructuring Negotiations, Deputy Head of Delegation, Geneva, March 12-16, 1994.

- 1993: Member, Kenya Delegation Global Environment Facility II (GEF) Restructuring Negotiations, Deputy Head of Delegation, September 22-25, 1993 Washington D.C. USA; November 5-11, 1993 Paris France; December 6-12, Cartagena, Columbia, South America.
- 1993: Member, Kenya Delegation, UNEP Governing Council Meeting 17th Session, Gigiri, Nairobi, May 10-21, 1993. Contributed to "Capacity Building: Means of Implementation of Agenda 21", and more.
- 1992: Member, Kenyan Delegation, Global Earth Summit Meeting, Rio-De Janeiro, Brazil 3-14 June 1992. Covered the Plenary Session, contributed to the Drafting of Minister of Environment and Natural Resources Plenary Statement. Also, contributed to negotiations on Desertification, Transfer of Technologies, and more.
- 1990: Member, Kenya Delegation, at the Preparatory Committee, to the United Nations Conference and Development, contributed to numerous intervention drafts 6-31 August, UNEP, Nairobi. Member of the Kenya Delegation at UNEP Governing Council Special Session, Nairobi, 1 to 3 August 1990.
- 1989. Contributed to the drafting of the Minister of Environment and Natural Resources Plenary Statement, Environmental Education and Training, and more.
- 1988: Member, Kenya Delegation, at the UNEP Special Session, Nairobi, 15-18 March 1988. Drafted interventions on Environmental Education and Training.
- 1987: Member, Kenya Delegation, at the UNEP Governing Council, 2-19 June 1987. Drafted Interventions on Environmental Education and Training, Science and Technology Transfer, and more.