CURRICULUM VITAE

Prof. Jones Fairfax **AGWATA**

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SUMMARY OF RESUME

Professor Jones Fairfax AGWATA is a career Environmental Scientist and Policy Expert with over twenty-five years' experience as a University Lecturer, Trainer, Researcher and Consultant. He is currently an Associate Professor in the Department of Environmental Sciences in the School of Agriculture, Environment and Health Sciences at Machakos University, Kenya and serves as Director of Research, Innovation and Technology Transfer in the Division of Research, Innovation and Linkages in the University. Prior to joining Machakos University in January 2019, Prof. Agwata was a Senior Lecturer at the Centre for Advanced Studies in Environmental Law and Policy (CASELAP) in the University of Nairobi from June 2010 to December 2018. From April 1993 June 2010, Prof. Agwata was Tutorial Fellow and Lecturer, respectively, in the Department of Environmental Sciences at Kenyatta University, where he began his professional career. His academic qualifications include a Bachelor of Science degree from the University of Nairobi and Master's and Doctorate degrees in Environment from MOI and Kenyatta Universities, respectively. His broad academic and professional interests include environmental science and policy, climate change, environmental disasters, environmental assessment, water resources management, environmental resources use conflicts, project management and waste management. Prof. Agwata serves as a consultant with the World Bank, and also as consultant facilitator and trainer in Environmental Management with the Eastern and Southern Africa Management Institute (ESAMI) and other various institutions and organizations. Prof. Agwata serves as an external examiner in the Faculty of Science at the University of Malawi's Chancellor College, South Eastern Kenya University, Maasai Mara University, Jaramogi Oginga Odinga University of Science and Technology and Maseno University. He has previously served in the same capacity at Chuka University, Technical University of Kenya, Egerton University and the University of Eldoret. Prof. Agwata holds a Research Fellowship at the American Biographical Institute, USA and a Fellowship at the African Scientific Institute. He is a Life Member of the Kenya Meteorological Society besides being a member of the Kenya National Academy of Sciences, International Society for Development and Sustainability, Japan; International Association of Hydrological Sciences, UK; Kenya DAAD Scholars Association; Environment Institute of Kenya and the Kenya Bureau of Standard's Disaster Management, Environmental Management and Higher Education Services Technical Committees. Prof. Agwata is a member and Chairman of the Board of Management at State House Girls High School, Nairobi. He has attended several courses and presented several papers at conferences and workshops nationally and internationally. Besides several book chapters and Journal papers to his credit, Prof. Agwata is a Lead Expert with the National Environment Management Authority, Kenya and is a trained Quality Management Systems Auditor. Prof. Agwata is widely travelled to various countries including South Sudan, United Arab Emirates, China, Uganda, Tanzania, Ethiopia, Zambia, Malawi, Zimbabwe, Namibia, Germany and Switzerland for various professional assignments.

BIODATA

Name: Jones Fairfax **AGWATA**

County of Birth: Nyamira, Kenya

Nationality: Kenyan

Religion: Christian

ACADEMIC QUALIFICATIONS

2005: Doctor of Philosophy in Environmental Science, Kenyatta University, Nairobi (Thesis title: *Characteristics of Hydrological Drought in the Upper Tana Basin of Kenya*)

1993: Master of Philosophy in Environmental Studies, Moi University, Eldoret (Thesis title: *Influence of Climate Change on the Fluctuations of the Levels of Lake Victoria*)

1989: Bachelor of Science, Second Class Honors Upper Division, University of Nairobi, Nairobi

PROFESSIONAL CERTIFICATIONS AND QUALIFICATIONS

2019: Certificate, (MLARR), National Research Centre for Resettlement (NRCR), Hohai University, China and Centre for Management of Land Acquisition, Resettlement and Rehabilitation (CMLARR), Administrative Staff College of India (ASCI), India, August 17th – 29th 2019. (*The course was sponsored by the World Bank*)

2014: Certificate, Environmental Assessment Workshop Held at Siyonat Hotel, Addis Ababa, Ethiopia

2012: Certificate of Facilitation, the Environmental Assessment Workshop Organised by the Canadian Lutheran World Relief, Chipata, Eastern Province, Zambia

2012: Certificate of Life Membership, Kenya Meteorological Society, Nairobi

2008: Lead Expert in Environmental Impact Assessment and Audit, National Environment Management Kenya (**Membership No 1591**)

2008: **Certificate** of Recognition for Contributing Towards Kenyatta University Attainment of the ISO 9001: 2000 Certification

2008: Certificate, Internal Auditor Course, SGS Kenya Ltd, Nairobi

2007: Certificate, Quality Management Systems Course, Kenya Bureau of Standards, Nairobi

2006: Certificate, Development of a Participatory Watershed Management Plan, DAAD/University of Siegen, Germany

2006: Certificate, Proposal Writing for International Research Projects-Second Part

2005: Certificate, Topics of Integrated Water Resources Management, University of Siegen, Germany

2005: Certificate, Proposal Writing for International Research Projects-First Part

2004: Certificate, Adult Training Principles and Practice Conducted by the GEF-Kenya Association of Manufacturers Industrial Energy Efficiency Project, Nairobi

2004: Certificate, Energy Management in Industry, GEF-Kenya Association of Manufacturers Industrial Energy Efficiency Project, Nairobi

UNIVERSITY ADMINISTRATIVE RESPONSIBILITIES AND EMPLOYMENT

25th **November 2022 – 24**th **November 2024: Director** for Research, Innovation and Technology Transfer, Machakos University

24th **May – 23**rd **November, 2022: Acting Director**, Research, Innovation and Technology Transfer, Machakos University

January, 2019 - To date: Associate Professor, Department of Environmental Sciences, Machakos University, Kenya

June, 2010 - 2018: **Senior Lecturer**, Centre for Advanced Studies in Environmental Law and Policy (CASELAP), University of Nairobi, Kenya

February, 1997 - May, 2010: **Lecturer**, Department of Environmental Sciences, Kenyatta University, Kenya

April, 1993 - January, 1996: **Tutorial Fellow**, Department of Environmental Sciences, Kenyatta University, Kenya

UNIVERSITY ADMINISTRATIVE RESPONSIBILITIES

- 1. 28th November, 2022: Member, University Library and Bookshop Committee
- 2. 15th November, 2022: **Member**, Strategic Plan Midterm Review Committee
- 3. 15th November, 2022: **Member**, Budget Implementation Committee

- 4. 27th October, 2022: Member/Secretary, 5th International Conference Committee
- 5. 27th October, 2022: **Member/Secretary**, 5th Innovation and Exhibition Week Commitee
- 6. 19th October, 2022: **Chief Editor**, MksU Journal of Science and Technology Editorial Board
- 7. 28th September, 2022: **Member**, Staff Establishment Implementation Committee
- 8. 21st July, 2022 July 2024: **Member**, Management Board of Quality Assurance
- 9. 8th July, 2022: **Member**, Shortlisting Committee for the Position of Technologist Grade 7/8
- 10. 30th May 9th September 2022: **Member**, Printing and Publications Committee
- 11. 30th May 9th September, 2022: **Member**, Library and Bookshop Committee
- 12. 24th May, 2022: **Chairman**, Science, Technology and Innovation Mainstreaming Committee of Machakos University
- 13. 24th May, 2022: **Coordinator**, Research Innovations for the Developed Digital Platform Kenya Innovation Bridge of the Kenya National Innovation Agency
- 14. 23rd May, 2022: **Focal Person** of Science, Technology and Innovation to the National Council for Science, Technology and Innovation
- 15. April, 2022: **Chairman**, Selection and Grant Award Committee for 2021/2022 Machakos University Internal Research Fund Grant
- 16. March, 2022: **Team Leader**, Committee to Review the Curriculum for Bachelor of Environmental Science Programme
- 17. March, 2022: **Member**, Committee for the Review of Machakos University Part-Time Teaching and Academic Workload Policies
- 18. January, 2022: **Member**, Staff Establishment Implementation Committee
- 19. January, 2022: **Member**, Machakos University 4th International Conference Committee

- 20. January, 2022: **Chairman**, Sponsorship and Partners' Subcommittee of Machakos University 4th International Conference Committee
- 21. October, 2021: **Member**, MOU Steering Committee between SolarAfric and Machakos University to Oversee the Implementation of the MOU and Submit Quarterly Reports to the Vice Chancellor
- 22. July, 2021: **Member** of a University Committee to Develop a Proposal Based on the British Council Call on **Innovation for African Universities Announcement-Call for Network Partnership**
- 23. **Chairman**, Departmental Committee to Develop a PhD Curriculum in Environmental Science in the Department of Environmental Sciences, School of Environment and Natural Resources Management
- 24. **Thematic Leader**, Bachelor of Environmental Sciences and Bachelor of Environmental Studies (Environmental Resource Conservation) Undergraduate and Master of Environmental Science Programmes in the School of Environment and Natural Resources Management, Machakos University
- 25. May, 2021: **Member**, Shortlisting Committee for Various Cadres of Academic Staff (Professors, Associate Professors, Senior Lecturers, Lecturers and Tutorial Fellows)
- 26. May, 2021: **Member**, Committee to Vet Postdoctoral Fellowship Application to the Department of Biological Sciences
- 27. March 2021: **Chairman**, Research Committee of the School of Environment and Natural Resources Management, Machakos University
- 28. January, 2021: **Member**, Committee to Organize the 2nd Public Lecture of Machakos University
- 29. December, 2020: **Member**, Machakos University 3rd International Conference Themes Sub-committee
- 30. December, 2020: **Chairman**, Committee to Develop Machakos University Research Management Manual
- 31. December, 2020: **Chairman**, Machakos University 3rd International Conference Programming Sub-Committee
- 32. November, 2020: Member, Machakos 3rd International Conference Committee

- 33. September, 2020: **Member** (Representing the School of Environment and Natural Resources Management), Printing and Publications Committee
- 34. February, 2020: **Member**, Machakos University 3rd International Conference Committee
- 35. February, 2020: **Member**, Steering Committee to Oversee the Implementation of the Memorandum of Understanding Between Machakos University and INADES-FORMATION KENYA
- 36. January, 2020: Nominee **Member**, Machakos University Ethics Review Committee
- 37. December, 2019: **Member**, Short listing Committee for the Position of Human Resource Director, Machakos University (VC's Appointment)
- 38. March, 2019: **Member** of the Short-listing Committee for the Positions of Human Resource and Clerk of Works (VC's Appointment)
- 39. February, 2019: **Chairman** of Committee to finalise the development of a proposal on Renewable energy (DVC, RIL Appointment)
- 40. 2011 2017: **Ag. Director**, Centre for Advanced Studies in Environmental Law and Policy
- 41. 9th March 2015: Member, College Environmental Sustainability Committee
- 42. 2010 2011: **Coordinator**, formulation and development of Regulations and Syllabus for the PhD programme in Environmental Policy at CASELAP. The Regulations and Syllabus were approved by Senate in July 2011
- 43. 2010-2018: **Champion**, Corruption Prevention Committee, College of Humanities and Social Sciences, University of Nairobi
- 44. 2010-2104: Coordinator, Academic Programmes at CASELAP, University of Nairobi
- 45. 2010 2018: **Senate Representative** for CASELAP, University of Nairobi

EXTERNAL CONSULTANCY AFFILIATION

I consult with various Local and International Institutions including

- The World Bank
- Eastern and Southern African Management Institute (ESAMI), Tanzania
- Canadian Lutheran World Relief, Canada
- Kenya Water Towers Agency, Nairobi
- Kenya National Cleaner Production Centre, Nairobi
- African Waste and Environmental Management Centre, Nairobi
- Kenya School of Government, Nairobi

CONSULTANCIES DONE

February, 2022: Consultant for the **World Bank** to participate in Conducting Environmental and Social Framework (ESF) Capacity Assessment and Training in South Sudan for a period of sixty (60) days

November, 2021: Consultant for the **World Bank** to prepare an Environmental and Social Management Framework (ESMF) for the **De-Risking, Inclusion and Value Enhancement of Pastoral Economies Project** (DRIVE) project in Kenya. The assignment included details on Labor Management Procedures, the SEA/H Code of Conduct, Security Management Plan and GBV Assessment

June 2021: **Consultant Facilitator & Trainer** for Kenya's Parliamentary Committee on Environment on Environmental and Natural Resources for Sustainable Development: The Impact of Climate Change held at Hilton Garden Inn, Dubai, 14th -18th June, 2021

April 2021: Consultant Facilitator & Trainer on the Roles and Responsibilities of Kenya's Senate Committee on Lands, Environment and Natural Resources on Climate Change Responses and Approaches, Hilton Garden Inn, Dubai, 26th – 30th April, 2021

2019: Team Leader for the Environmental and Social Impact Assessment Study of the Malindi-Kilifi and Machakos EkalaEkala Power Lines under KETRACO Contract Agreement

2019: Consultant Facilitator & Trainer on Environmental Impact Assessment and Audit at the Kenya School of Government, Matuga Campus in South Coast

2017: Consultant Facilitator & Trainer for the Kenya Water Towers Agency to undertake stakeholder engagements on critical issues affecting various water towers in

the country with a view to coming up with a comprehensive status report on the water towers

2014: Consultant Environmental Assessment Expert for Canadian Lutheran World Relief/Lutheran World Federation supported projects in Ethiopia

2014: Lead Consultant Facilitator & Trainer of the Environmental Assessment Workshop held at the Siyonat Hotel, Ethiopia. Workshop participants were drawn from various donor funded projects located in various parts of the country

2013-Todate: Resource Person & Trainer on 'Environmental Management for Business' Course at various ESAMI Centres in Eastern and Southern African Region

2013: Consultant Facilitator & Trainer in Environmental Management and Impact Assessment Course to Western Kenya Community Driven Development & Financial Mitigation Project (WKCDD/FM) staff, Kenya School of Government's E-Learning and Development Institute, Nairobi

2013: Consultant Facilitator & Trainer in Environmental Impact Assessment and Audit Course to various senior officers of the Ministry of Agriculture held at the School of Agriculture, Nyeri

2012: Lead Facilitator & Trainer at the Environmental Assessment Workshop Organized by the Canadian Lutheran World Relief in Chipata City, Eastern Province, Zambia

2012: Consultant Environmental Auditor for the Canadian Lutheran World Relief/Canadian International Development Agency Supported Projects in Katete District of Zambia and Tete Province of Mozambique

2012: Consultant Facilitator & Trainer at the Environmental Assessment Workshop held at Chipata City in Eastern Province, Zambia. Workshop participants were drawn from Zambia, Mozambique and South Africa

2011: Member, Task force on finalization of the 10th Kenya Meteorological Society Conference Report Proceedings, special edition of the Journal of Meteorology and Related Sciences and preparation of the post-conference supplement of the proceedings, African Adaptation Programme held at the Stadion Hotel, Kasarani, Nairobi

2011: Team Leader of Report Preparation and Evaluation Committee of the 10th Kenya Meteorological Society Conference, Mombasa Beach Hotel, Mombasa

2011 - 2013: Consultant Facilitator & Trainer in Strategic Environmental Management, Project Planning and Management and Environmental Impact Assessment and Audit, Apex Management Systems Consultants Limited, Nairobi

2011: **Consultant Facilitator & Trainer** on Corporate Governance to the Chief Officers of Municipal Council of Naivasha, Naivasha

2010 - 2012: Consultant Lecturer in Project Planning and Management, Governance, Natural Resources Management, Environment Management, Governance and Policy Analysis, Formulation and Management at the Mount Kenya University, Nairobi

2009: Participated in the Development of the Strategic Plan for the Regional Centre for Capacity Development, Kenyatta University

2009-Todate: Adjunct Consultant Facilitator & Trainer in Environmental Impact Assessment and Audit Course, Kenya School of Government, Nairobi

2009: Lead Consultant for the African Waste and Environmental Management Centre (AWEMAC) undertaking a Strategic Environmental Impact Assessment (SEA) Study for Masinde Murilo University of Science and Technology, Kakamega

2008 - To date: Resident Lead Environmental Assessment (SEA, EIA and EA) Consultant at the African Waste and Environmental Management Centre (AWEMAC), a NEMA REGISTERED FIRM based in Nairobi

2008 - 2012: **Lead Consultant Facilitator & Trainer** on Environmental Impact Assessment and Audit at the Kenya National Cleaner Production Centre, Nairobi

2008: Lead Consultant Facilitator & Trainer in Project Planning and Management for Ministry of Agriculture Staff, Embu Agricultural Staff Training College, Embu

2008: **Lead Consultant Facilitator & Trainer** for **Kitughi Youth Initiative Group** in Taita Taveta to prepare a Community Action Plan (CAP) as part of the World Day to Combat Desertification (WDCD) preparations

2008: **Consultant** to undertake a Desk Top Study on Climate and Conflict in Kenya by the Centre for Technology Studies (ACTS), Nairobi

2007 - 2015: **Lead Coordinator** & Training Consultant in **Environmental Impact Assessment and Audit** at the Africa Nazarene University, Nairobi

2006 - 2014: Lead Consultant Facilitator & Trainer in Environmental Impact Assessment and Audit, Peace Building and Conflict Transformation, Disaster Preparedness and Mitigation and Project Planning and Management at then Kenya Institute of Administration (now Kenya School of Management), Nairobi

2006: **Consultant Facilitator & Trainer** for **Bwathonaro Water Users Association** to develop a Watershed Management Plan for the Bwathonaro Catchment in Meru North District, Kenya

COURSES, SEMINARS, TRAININGS & WORKSHOPS ATTENDED

- 1. **25**th **November, 2022**: Training on Intellectual Property Rights for University Staff and Students conducted by Stanley Atsali from Kenya Industrial Property Institute, Nairobi
- 2. **17**th **November, 2022**: Virtual Sensitization Training on STI Mainstreaming Conducted by Officers from NACOSTI
- 3. **16**th **November, 2022**: Virtual Sensitization Workshop on Hazardous Waste Management Conducted by an Officer from NEMA
- 4. **21**st **October, 2022**: Public Lecture on the Topic Science, Technology and Innovation: The Role of Universities in the Socio-economic Development of Society by Prof. Emeritus Ratemo W. Michieka
- 5. **14**th **October, 2022**: Virtual Training on Solar Voltaic Technology Conducted by Dr. Fredrick Nyang' for Staff of Machakos University
- 6. **7th October, 2022**: Virtual Sensitization Training on Automation of the Quarterly and Annual NACOSTI Report Tools Conducted by Officers from NACOSTI
- 7. 5th October, 2022: Virtual Training on Proposal Writing for International Research Projects and Sourcing for External Funding for Research
- 8. **17**th **19**th **August, 2022**: Capacity Building Workshop Training on the Competency Based Curriculum Conducted by Staff from KICD for University Academic Staff held at Kilimabogo Hall, Machakos University
- 9. **12**th **January, 2022**: Virtual Training on Grant Proposal Writing and Sourcing for Funds, Machakos University, Machakos
- 10. 11th November, 2020: Virtual Research Ethics and Standards Training, Machakos University, Machakos
- 11. **23**rd **September, 2020**: Virtual **Intellectual Property Training** focusing on Leveraging Machakos University Capabilities to Harness Talents to Respond to the Challenges Posed by Covid-19 and Other Pandemics

- 12. **2**nd **September, 2020**: Virtual Hands-on **Grant Proposal Writing Training**; Participated as a Facilitator
- 13. The Second National Training Course on Land Acquisition and Resettlement Management organized by the Centre for Land Acquisition and Resettlement Studies, University of Nairobi held at the Cooperative University of Kenya, Karen from 25th November 6th December, 2019. Participants were drawn from various institutions and organizations involved in various development projects affecting land
- 14. The First National Training Course on Land Acquisition and Resettlement Management organized by the Centre for Land Acquisition and Resettlement Studies, University of Nairobi held at the Kenya School of Government, Lower Kabete from 10th 21st June 2019. Participants were drawn from various institutions and organizations involved in various development projects affecting land
- 15. Kenya DAAD Scholars Association International Conference and Annual General Meeting held at Hotel Sirikwa, Eldoret on **11**th **14**th **June**, **2019**
- 16. Workshop on Graduate Student Supervision in the 21st Century held at the All Saints Cathedral Church, Nairobi on 23rd 24th May, 2019. Workshop was organized by the Technical University of Kenya under the Auspices of the Kenya DAAD Scholars Association in conjunction with the DAAD Regional Office, Nairobi. Facilitated on the topic 'Roles and Responsibilities of Graduate Supervisors'
- 17. Proposal Grant Writing Training Workshop held at Machakos University Senate Room from 21st 23rd May, 2019
- 18. Training Workshop on Land Acquisition and Resettlement Held at the Enashipai Hotel and Golf Resort, Naivasha. **15**th **18**th **May, 2019**. Sponsored by the World Bank and the University of Nairobi
- 19. Workshop on Research Administration and Grant Writing held at the School of Physical Sciences Boardroom, Chiromo Campus, University of Nairobi, **12**th **14**th **March**, **2019.** Facilitated on 'Human Resource Management in the Administration of Research'
- 20. International Course on Improved Management of Land Acquisition, Resettlement and Rehabilitation held at the National Research Centre for Resettlement (NRCR), HOHAI University, China, 17th 29th August, 2019

- 21. SIANK and CASELAP Biodiversity and Ecosystem Services Management Forum Held at the University of Nairobi Towers on **13**th **July, 2018**
- 22. Training on PhD Supervision Held at the Central Catering Unit, University of Nairobi, 13th 14th February, 2018
- 23. Training on Research Grant Management Information System (RGMIS) Held at the Hyslop Computer Laboratory, University of Nairobi, **28**th **January**, **2018**
- 24. GIS for Natural Resources Seminar Held at the Oakar Services Seminar Room, KUSCCO Centre, Nairobi, 23rd June 2017
- 25. Sensitization Training for Technical Evaluation Committees Held at the Central Catering Unit, University of Nairobi on **10**th **April**, **2017**
- 26. The University Senate Retreat Held at the Great Rift Valley Lodge and Golf Resort, Naivasha from **July 30**th **to August 1**st, **2015**
- 27. The **Strategic Environmental Assessment** Course held at the KCB Leadership Training Centre, Karen in **June**, **2011**
- 28. The **ISO QMS Auditors Training Course**, Kenyatta University, **7th 10**th **May** 2007
- 29. The ISO QMS Training Course, Kenyatta University, 26th-28th March, 2007
- 30. E-Learning Concepts and Methodology Course, Kenyatta University, 9th-10th January, 2007
- 31. Development of a Participatory Watershed Management Plan for the Bwathonaro Watershed, Kenya, Meru North, Meru Safari Hotel, 17th-30th July, 2006
- 32. Proposal Writing for International Research Projects Course-part II, Silver Springs Hotel, Nairobi, **26**th-**30**th **June**, **2006**
- 33. Proposal Writing for International Research Projects Course-part I, Silver Springs Hotel, Nairobi, **13**th-**19**th **November**, **2005**
- 34. Topics of Integrated Water Resources Management', University of Siegen, Germany, 12th-29th April, 2005
- 35. Energy Management in Industry, Grand Regency Hotel, Nairobi **16**th**-26**th **August, 2004**

EXTERNAL EXAMINATION RESPONSIBILITIES

2021 - 2022: **External Examiner**, Department of Hydrology and Aquatic Sciences, South Eastern Kenya University, Kitui, Kenya 2021 - 2024: External Examiner, Department of Environmental Studies, Geography and Agriculture at the School of Natural Resources, Tourism and Hospitality, Maasai Mara University, Narok 2021 - To date: External Examiner, School of Spatial Planning and Natural Resource Management, Jaramogi Oginga Odinga University of Science and Technology, Bondo, Kenya External Examiner, Faculty of Science (Master of Environmental 2018 – To date: Science), Chancellor College of the University of Malawi at Zomba, Malawi 2018 - To date: **External Examiner**, Department of Hydrology and Water Resources, School of Earth and Environmental Studies, Maseno University, Kenya 2018 - 2021: External Examiner, Department of Environmental Studies and Resource Development, Chuka University, Chuka 2017 - 2021: External Examiner, Department of Geosciences and the Environment, Technical University of Kenya, Nairobi 2010 - 2017: **External Examiner**, Department of Applied Environmental Social Sciences, School of Environmental Studies, University of Eldoret, Eldoret

OTHER PREVIOUS UNIVERSITY RESPONSIBILITIES

University, Njoro

2012 - 2015:

2007-2010 **Board Member,** Regional Centre for Capacity Development, Kenyatta University

School Representative, University Website Development Committee

External Examiner, Department of Environmental Science, Egerton

Departmental Representative and Chair, School ISO Committee

Departmental Coordinator, Quality Management System/ISO

2004-2006 **Examinations Coordinator,** Department of Environmental

Sciences, Kenyatta University

Member, School of Environmental Studies Practicum Committee,

Kenyatta University

Secretary, Departmental Academic Meetings

Departmental Representative, School Income Generation Board

Departmental Coordinator, Students Registration

Departmental **Time Tabler**

1996-1998 Seminar Coordinator, Department of Environmental Sciences,

Kenyatta University

THESIS EXAMINATION

External Examiner for Masters Thesis, Institute for Climate Change and Adaptation, University of Nairobi (Title of Thesis: "Climate Change Action ToolKit for Groundwater Use in Agricultural Production: Case Study of Lwanda, Bungoma County" by **Hellen Nafuna Wanyama Ngema**)

External Examiner for PhD Thesis, Department of Meteorology, University of Nairobi (Title of Thesis: "The Effect of Climate Change on Milk Production in Smallholder Farms: A Case of Nandi County, Kenya" by **Josephine Wangechi Kirui**)

External Examiner for MSc Thesis, Department of Environmental Science, Chuka University, Chuka (Title of Thesis: "Socioeconomic Determinants of Adaptation to Climate Variability by Smallholder Farmers in Igamang'ombe Sub-County, Kenya" by **Irene Wangui Mwendandu**)

External Examiner for MSc Thesis, Faculty of Science, University of Malawi Chancellor College (Title of thesis: *Quantitative Assessment of Tree Species and Wood Volume used in Production of Fired Clay Bricks: The Case of Zomba* by **Joshua Munthali**)

External Examiner for PhD Thesis, Department of Environmental Science, Chuka University, Chuka (Title of Thesis: A Spatial Multi-Criteria Analysis of Land Use, Land Cover and Climate Changes on Wildlife Ecosystem Planning and Management in Meru Conservancy Area by **Edwin Muchomba Kiria**)

External Examiner for MSc Thesis, Department of Environmental Science, Chuka University, Chuka (Title of Thesis: *The Efficacy of the Kipevu Sewage Treatment Plant in the Removal of Faecal Coliforms, Chemical Oxygen Demand, Nitartes and Phosphates in Mombasa County, Kenya* by **George Lawrence Oguda**)

External Examiner for PhD Thesis, Department of Geography, Kenyatta University, Nairobi (Title of Thesis: *Development of A Payment for Environmental Services Scheme to Mitigate Soil Erosion and Pollution Loading in Sasumua Watershed, Kenya* by **John Kimani Mwangi**)

External Examiner for **Master of Science Thesis**, Department of Environmental Science, Egerton University, Njoro (Title of Thesis: *Water Supply and Demand Situation Among Households and Institutions in Nakuru Municipality, Kenya* by **Mathendu Sammy**)

External Examiner for **Master of Science Thesis**, Department of Environmental Science, Egerton University, Njoro (Title of Thesis: Factors Influencing the Adoption of Sustainable Land Management Practices in the Upper Mara River Basin, Amalo and Kiplabotwa Location, Kenya by **Robinson Mwenda Njuki**)

External Examiner for Master of Science Thesis, Department of Natural Resources, Egerton University, Njoro (Title of Thesis: Assessment of Water User Associations in the Effective Management of Closed Water Distribution Systems in Timau Division, Kenya)

External Examiner for Master of Science Thesis, Department of Environmental Science, Egerton University, Njoro (Title of Thesis: Adoption of Agroforestry Technologies among Small Scale Farmers in Nzoia Location, Lugari District, Kenya

External Examiner for **Master of Philosophy Thesis**, School of Environmental Studies, Moi University, Eldoret (Title of Thesis: Socioeconomic Factors Affecting Farmers' Decisions to Adopt Agricilviculture: A Case Study of Turbo Division, Eldoret West District, Kenya by **Mukungei Kipchumba Philip**)

External Examiner for **Master of Philosophy Thesis**, School of Environmental Studies, Chepkoilel University College of Moi University, Eldoret (Title of Thesis: *Impacts of Sand Mining on Local Communities' Livelihood in Magarini Division, Malindi District, Kilifi County, Kenya* by **Amollo Nabwire Oking'**)

External Examiner for **Master of Philosophy Thesis**, School of Environmental Studies, Moi University, Eldoret (Title of thesis: The Use of Indigenous Knowledge in Biodiversity Conservation: The case of Taita Hills Forest Complex, Kenya by **Mwamidi, Daniel, M**)

External Examiner for **Master of Philosophy Thesis**, School of Environmental Studies, Moi University, Eldoret (Title of Thesis: *Perception of Farmers on Crop Vigour Enhancing Strategies for Soil Fertility Management in Nandi South District* by **Eunice Onyango)**

External Examiner for **Master of Science Thesis**, Department of Environmental Science, Egerton University, Njoro (Title of Thesis: *Potential of Community Based Organizations for the Management of Indigenous Livestock Resources Amongst Pastoralist Communities of the Greater Marsabit District, Kenya by Michael Ngutu)*

External Examiner for **Master of Science Thesis**, Department of Meteorology, University of Nairobi (Title of Thesis: 'Intraseasonal Characteristics of Daily Rainfall over Uganda during the Wet Seasons' by **Deus Bamanya**)

External Examiner for **Master of Science Thesis**, Department of Meteorology, University of Nairobi (Title of thesis: 'Interannual variability of onset and cessation dates of the long rains in Kenya' by **Richard M. Mwangi**)

Internal Examiner for **Master of Science Thesis**, Department of Geography, Kenyatta University (Title of thesis: 'Estimation of stream flows in ungauged catchments: case study of the Tana River basin' by **John K. Mwangi**)

Internal Examiner for **Master of Environmental Studies Thesis**, Department of Environmental Science, Kenyatta University (Title of thesis: 'An appraisal of solid waste management in small towns in Kenya: a case study of Othaya town, Nyeri District, Kenya' by **Joseph, K. Thuo)**

SUPERVISION OF THESES

Completed PhD Work

- 1. Mutua, Juliana Kamanthe Muia, 2018: Assessment of Urban Sanitation Management Approaches in Mavoko Municipality of Machakos County, Kenya. Unpublished PhD Thesis, Centre for Advanced Studies in environmental Law and Policy, University of Nairobi, Nairobi, Kenya
- 2. Nyakang'o Jane Bochaberi, 2015: Application of Ecological Modernization in Effluent Pollution Prevention: Analysis of Innovations and Drivers in the Sugar Industry within Nyando Basin, Kenya. Unpublished PhD Thesis, Centre for Advanced Studies in environmental Law and Policy, University of Nairobi, Nairobi, Kenya
- **3. Oribu, William Sagini, 2014:** Analysis of Environmental Degradation and Associated Initiatives on Business' Performance at the Lake Naivasha Ecosystem of Nakuru County. Unpublished PhD Thesis, School of Business and Economics, Mount Kenya University, Thika

On-going PhD work

- 1. **Machan, Steve Ntirimo:** An Assessment of the Sustainability of Livestock Food system in Isiolo County, Kenya. Student has submitted the Thesis for examination awaiting defense
- 2. **Kemboi, Ezekiel:** Analysis of Drought Resilience and Management in Kajiado County, Kenya. Student is ready to submit the Thesis for examination
- 3. **Wanjala, Nancy Barasa:** Impact of Climate Change on the Livelihoods of Rural Women in Bungoma County, Kenya. Student is writing the Thesis Report
- 4. **Gikonyo, Josphat Mbiri**: Influence of Environmental Programmes on Environmental Management Among Secondary School Students in Murang'a County, Kenya. Student has completed the Thesis Report and is ready to submit
- 5. **Mugambi, Timothy Muthaura**: Assessing the Environmental Sustainability of Transporting Petroleum Products Using the Mombasa Nairobi Underground System. Student has defended the Proposal

COMPLETED MASTERS THESES

2019

- 1. **Reagan, Ochieng' Awino:** Analysis of Stakeholders' Participation in the Strategic Environmental Assessment of the Master Plan on Logistics in the Northern Economic Corridor in Kenya. Master's Thesis, Centre for Advanced Studies in Environmental Law and Policy, University of Nairobi
- 2. **Violet Adhiambo Mulaku:** Management of Oil Spillages from Inland Oil Terminals in Industrial Area of Nairobi City County, Kenya. Master's Thesis, Centre for Advanced Studies in Environmental Law and Policy, University of Nairobi
- 3. **Rosalind W. Nduati**: Assessment of the Contribution of Fish Farming on Poverty Reduction in Maragua Sub-County, Murang'a County, Kenya. Master's Thesis, Mount Kenya University

2017

- 1. Opondo, G, Keyah: Analysis of the Governance Framework for Vehicular Air Pollution Abatement in Kenya: A Case Study of Nairobi City. Master's Thesis, Wangari Maathai Institute for Peace and Environmental Studies, University of Nairobi
- **2. Mathews J. Wakhungu:** A Cost Benefit Analysis of Water Recycling in Manufacturing Industries: A Case Study of the East African Breweries Limited,

- Kenya. Master's Thesis, Centre for Advanced studies in Environmental Law and Policy, University of Nairobi
- **3. Erastus K. Gitonga:** Factors Affecting Sand Harvesting in Machakos County, Kenya. Master's Thesis, Wangari Maathai Institute for Peace and Environmental Studies, University of Nairobi
- **4. Baariu, Patricia Karamuta:** An Assessment of the Flood Vulnerability and Management Strategies in Nairobi City. Master's Thesis, Centre for Advanced Studies in Environmental Law and Policy, University of Nairobi.
- **5. Okoth, Ruby Akinyi:** Factors Influencing the Participation of the Informal Private Sector in the Management of Solid Waste in Nairobi City County, Kenya. Master's Thesis, Centre for Advanced Studies in Environmental Law and Policy, University of Nairobi.

2016

- **1. Wachiuri, Caroline:** Assessing the Use of Road Runoff in Enhancing Water Storage for Irrigation in Makueni County, Kenya. Master's Thesis, Centre for Advanced Studies in Environmental Law and Policy, University of Nairobi
- **2. Njagi, Christine Mukami:** Policy Implications In The Management Of Kimana Wetlands In Oloitoktok District of Kajiado County, Kenya. Master's Thesis, Centre for Advanced Studies in Environmental Law and Policy, University of Nairobi
- **3. Lupao**, **Cornelius W:** The Efficacy of Kenya's Critical Sectoral Environmental Policies in Meeting Women's Climate Change Mitigation and Adaptation Needs in Bungoma County, Kenya. Master's Thesis, Centre for Advanced Studies in Environmental Law and Policy, University of Nairobi
- **4. Odeck, Doreen Ivy:** An Assessment of Community Based Natural Resource Management in Olisukut Conservancy in Transmara, Kenya. Master's Thesis, Centre for Advanced Studies in Environmental Law and Policy, University of Nairobi

2015

- 1. Ngonge, David Njagi: Evaluation of Public Participation in Environmental Impact Assessment of the Southern Bypass Road in Nairobi, Kenya. Master's Thesis, Centre for Advanced Studies in Environmental Law and Policy, University of Nairobi
- **2. Ochieng, Linda Awuor:** Knowledge, Attitudes and Practices on Climate Change Adaptation by Small Holder Farmers in Mwala Constituency, Machakos County,

Kenya. Unpublished Master's Thesis, Centre for Advanced Studies in Environmental Law and Policy, University of Nairobi

2014

Deffersha, Solomon Balew: Crop Adaptation Strategies and Their Impacts on Maize Income in Central Ethiopia. Master's Thesis, Centre for Advanced Studies in Environmental Law and Policy, University of Nairobi

2013

- **1. Gathagu, Teresia W:** Challenges and Policy Options for Enhancing Women's Participation in Water Resources Management in Kajiado County, Kenya. Master's Thesis, Centre for Advanced Studies in Environmental Law and Policy, University of Nairobi
- **2. Makutsa, Pauline Wanjiru:** An Evaluation of the Policy Framework for Community Based Natural Resource Management in Kenya. Master's Thesis, Centre for Advanced Studies, University of Nairobi
- **3.** Lekapana, Paul, Lepenoi: Socioeconomic Impacts of Drought on Pastoralists, their Coping Strategies and Government Interventions in Marsabit County, Kenya. Master's Thesis, Centre for Advanced Studies, University of Nairobi

2011

- **1. Mugera**, **Eunice Wambui:** Management of Water Resources in the Peri-Urban Areas of Ruiru District, Kenya. Master's Thesis, Department of Environmental Sciences, Kenyatta University, Nairobi
- **2. Njoka, Stephen N:** Assessment of the Hydrological and Land use/Land cover Changes in Mutonga Watershed, Kenya. Master's Thesis, Department of Environmental Sciences, Kenyatta University, Nairobi

2009

Njeru, Linus Kariuki. Indoor Carbon Monoxide and Particulates Produced from Combustion of Carbon Based Fuels and Their Health Impacts on Rural Households of Manyatta Division, Embu District, Kenya. Student graduated in 2009

1998

- **1. Thuo, Joseph Karanja:** An Appraisal of Solid Waste Management in Small Towns in Kenya: a Case Study of Othaya Town, Nyeri District, Kenya. Master's Thesis, Kenyatta University, Nairobi
- **2. Ogola, Pacifica F. A:** Surface Water Resources in Yatta Division: Accessibility, Variations, Utilization and Conservation Aspects. Master's Thesis, Kenyatta University, Nairobi

ONGOING MASTERS THESIS WORK

- **1. Gituma, Kaumbi Kioga:** Assessment of the Policy and Legal Frameworks Governing Quarrying in Meru County, Kenya. Centre for Advanced Studies in Environmental Law and Policy, University of Nairobi. Student is ready to submit the Thesis for examination
- 2. Patrick Owiny: Factors Influencing Public Participation in Environmental Impact Assessment for the Nairobi Thika Superhighway and RUAI Sewerage Improvement Projects in Nairobi City County, Kenya. Student is ready to submit the Thesis for Examination

PARTICIPATION IN CONFERENCES, WORKSHOPS & SEMINARS

28th **-30**th **June, 2021**: The 6th Maasai Mara University International Conference on the theme *Innovation Infrastructural Preparedness for Emerging Global Challenges*, held virtually at the Maasai Mara University, Narok

23rd - 26th June, 2021: The 11th International Interdisciplinary Conference on the theme *Globalization and Development in Africa*, held virtually at the Multimedia University of Kenya, Nairobi

22nd - 25th June 2021: The 3rd Annual International Conference Held Virtually at Machakos University. Presented Two Papers and Served as Session Chair

19th - 23rd Sept 2011: Chairman, 10th Kenya Meteorological Society Workshop on the theme 'Climate and Socio-Economic Development' held at Mombasa Beach Hotel, Mombasa

2010 - 2012: **Chairman**, Conference Organising Committee for Kenya Meteorological Society International and National Workshops on Meteorological Research, Applications and Services

June 2010: Chairman, National Workshop held in Narok under the auspices of the Kenya Meteorological Society

29th **Nov., - 2**nd **Dec. 2006: Member of the Organizing Committee and Rapporteur** at the Kenya DAAD Scholars Association First Regional Conference on 'Principle of Sustainability: An Interdisciplinary View', University of Nairobi, Nairobi

17th - 21st October 2005: Member of the Steering Committee, the Seventh Kenya Meteorological Society Workshop on Meteorological Research, Applications and Services held at the Nairobi Safari Club

- **26**th **27**th **May, 2005: Member of the Organizing Committee**, *t*he Kenya DAAD Scholars Association National Conference on 'Re-invigorating the University Mandate in a Globalizing Environment: Challenges, Obstacles and the Way Forward' held at the African Virtual University Hall, Kenyatta University
- **24**th **26**th **May, 2004: Member of the Organizing Committee**, *t*he International Workshop on 'Environmental Health Education in the East African Region: Challenges and the Way Forward', held at the African Virtual University Hall, Kenyatta University, *Served as Rappoteur*
- **29**th **Sept., 3**rd **Oct., 2003**: **Member** of Steering Committee, the 6th Kenya Meteorological Society Workshop on Meteorological Research, Application and Services held at Travellers Beach Hotel, Mombasa

CONFERENCES, SEMINARS & WORKSHOPS ATTENDED

- 9th 11th November, 2022: The 6th Dedan Kimathi University of Technology Conference on the theme: *Science, Technology, Innovation and Entrepreneurship* held at the University Campus in Nyeri
- **28**th **-30**th **June, 2021**: The 6th Maasai Mara University International Conference on the theme *Innovation Infrastructural Preparedness for Emerging Global Challenges*, held virtually at the Maasai Mara University, Narok
- **23**rd **26**th **June, 2021**: The 11th International Interdisciplinary Conference on the theme *Globalization and Development in Africa,* held virtually at the Multimedia University of Kenya, Nairobi
- **22nd 25th June, 2021:** The 3rd Annual International Conference held virtually at Machakos University on the Theme *Responding to Emerging Global Challenges Through Research, Innovation and Technology for Sustainable Development*
- **21**st **23**rd **October, 2020:** 14th KMS International Conference on Meteorological Research, Applications and Services on the theme Climate Risk Reduction, Society and Sustainable Development held at the Lake Naivasha Resort, Nakuru County
- **2**nd **September, 2020**: Facilitated at the Virtual Hands on Grant Proposal Writing to Respond to Emerging Global Challenges Organized by the Division of Research, Innovation and Linkages, Machakos University
- **14**th **October, 2019:** World Standards Day Celebration and Induction of Technical Committee Members, Radisson Blue Hotel, Upper hill, Nairobi
- **31**st **August 3**rd **September, 2019:** The 2nd International Conference on Resettlement and Social Development and the 2019 International Network of Displacement and

- Resettlement Meeting, Global Dialogue on Dam Induced Displacement and Resettlement held at HOHAI University, Nanjing, China
- **12 14**th March, **2019:** Research Administration and Grant Writing Workshop Organized by DAAD, KDSA and University of Nairobi held at the School of Physical Sciences Boardroom, Chiromo Campus, University of Nairobi
- **25**th **September, 2018:** Compulsory Land Acquisition and Resettlement Centre of Excellence Workshop Organized by the World Bank, University of Nairobi and the National Land Commission held at the Sarova Panafric Hotel, Nairobi
- **18**th **21**st **July 2017:** The Kenya Water Towers Agency Peer Review Workshop of the Water Towers Status Report Held at the Hotel Waterbuck, Nakuru
- 15th 16th June 2017: The Kenya DAAD Scholars Association 2017 National Conference on the theme the Role of Higher Education in the electoral Process and Democratization of Politics in Kenya held at Kisumu Hotel, Kisumu
- **24**th **27**th **April, 2017:** Workshop on Sensitization of Education Officers, Principals and Board of Management (BOM) Chairpersons on Utilization of Infrastructure Grants to Secondary Schools for 100% Transition Held at Kisumu Girls High School, Kisumu
- **21**st **April, 2017:** Peer Review Workshop on the Revision of the National Wildlife Conservation and Management Policy held at the Kenya Commercial Bank Leadership Centre, Karen, Nairobi
- 10th April, 2017: Workshop on Sensitization Training for Technical Evaluation Committees from Colleges and Central Administration Units Held at the Central Catering Unit Hall, University of Nairobi, Nairobi
- 1st 4th June, 2016: International Conference on Flood Risk and Urban Planning on the Theme Coping with Flooding and Soil Erosion in City and Regional Planning held at Taita Taveta University College, Voi, Kenya
- **10**th **12**th **February, 2016**: The Mt. Kenya KDSA International Conference on the theme Higher Education in Devolved Systems of Government held at Karatina University, Karatina, Kenya
- **20**th **23**rd **November, 2012**: Conference on the theme 'Role of Science and Technology for Devolved Governance in The New Constitutional Dispensation in Kenya' held at the Bondo University College, Kenya
- **7**th **29**th **February, 2012**: National Climate Change Response Strategy Action Plan Thematic Working Groups Consultative Workshop held at the KCB Leadership Training Centre, Karen, Kenya

22nd – **23**rd **November 2011**: The first Effluent and Waste Water Management Conference held at Crowne Plaza Hotel, Nairobi

26th **- 28**th **Oct., 2011:** EU/UNDP/MEMR National Climate Change Capacity Building Workshop held at the Great Rift Valley Lodge and Golf Resort, Naivasha

19th **-23**rd **Sept 2011:** The 10th Kenya Meteorological Society International Workshop on the theme 'Climate and Socio-Economic Development' held at Mombasa Beach Hotel, Mombasa. Served as Chair of the Conference Organising Committee

June 2010: National Stakeholders Workshop held at the Seasons Hotel, Narok under the Auspices of the Kenya Meteorological Society

2nd**-5**th **December, 2007:** The CHEMRAWN XII Conference at the University of Stellenbosch, South Africa

31st **October 2007:** First National Workshop for the Development of the Environment Policy for Kenya, Kenya School of Monetary Studies, Nairobi

22nd**-24**th **October, 2007:** The 2007 National Ecotourism Conference on 'Hot Issues, Green Solutions', the Panafric Hotel, Nairobi

17th**-19**th **October, 2007:** The Kenya DAAD Scholar Association Annual Conference, Egerton University, Njoro

11th**-14**th **Sept, 2007:** The 8th Kenya Meteorological Society Workshop on Meteorological Research, Services and Applications, Mombasa Beach Hotel

28th **May 2007:** A Public Lecture on 'Conducting e Learning in Universities: The Pedagogical, Technological and Sustainability Issues', Science Complex 2, Kenyatta University

29th - **30**th **May 2007:** The 2nd International Conference on '*ICT for Development, Education and Training*', Safari Park Hotel, Nairobi

21st **Feb. 2007:** The Kenyatta University *ISO Training Workshop* held at the Science Complex 2 Room

6th-8th **December 2006**: The MESA University Partnership Programme on 'Online Education for Sustainable Development in Africa' sponsored by UNEP and Global Virtual University, Lukenya Getaway, Nairobi

5th **Dec., 2006:** The MESA Partners Forum, UNEP Hqs., Nairobi

- **29**th **Nov., 2**nd **Dec. 2006:** The Kenya DAAD Scholars Association First Regional Conference on 'Principle of Sustainability: An Interdisciplinary View', University of Nairobi, Nairobi
- **15-19 November, 2006:** The CODESRIA Sponsored Workshop on 'Writing for Scholarly Publishing', AVU Hall, Kenyatta University
- **3rd-7th October, 2005:** The 13th Postgraduate Seminar on the theme 'The Role of Applied Research in Kenya's Development', Science Complex Boardroom, Kenyatta University
- 8th Sept; 2005: The Interdisciplinary Research and Training workshop on '*Atmospheric Science, Environment and Health*', Department of Meteorology, University of Nairobi
- **26**th **-27**th **May 2005:** The Kenya DAAD Scholars Association Conference on 'Reinvigorating the University Mandate in a Globalizing Environment: Challenges, Obstacles and the Way Forward', African Virtual University Hall, Kenyatta University
- **24**th **-26**th **May 2004:** The International Workshop on *'Environmental Health Education in the East African Region: Challenges and the Way Forward'* at the African Virtual University Hall, Kenyatta University
- **12**th **-16**th **Jan. 2004:** The AICAD 3rd Call Research Presentation Workshop, Silver Springs Hotel, Nairobi
- **19**th **-23**rd **Oct., 2003:** The Winners Presentation Workshop at the OSSREA Hqs., Ethiopia to present and defend a Proposal on 'Community Initiatives for Managing Water Resources in Kajiado District'

RESEARCH GRANTS, FELLOWSHIPS & SCHOLARSHIPS AWARDED

- 1. 2021: Awarded a grant of **Kshs 580, 000** to undertake research on *Assessment of Strategies used to Cope with Drought Impacts in Machakos Town Sub-County of Machakos County*, Kenya
- 2. **2016-2017**: Awarded a grant of **Kshs 8 million** by UNEP as a Team from CASELAP to undertake the *Revision of National Wildlife Conservation and Management Policy of 2013* for the Ministry of Environment and Natural Resources
- 3. **2014-2015**: Awarded a grant of **Kshs 6 million** by UNEP as a Team from CASELAP to undertake a study on the *Renewable Energy Regulations* for the Ministry of Energy of the Republic of Kenya for the Ministry of Energy
- 4. **2009-2010**: Awarded a research grant of **US\$15,000** to conduct a project on Trans-Boundary Water Resources Management in the Lake Victoria Basin. The study

focussed on water availability, use, conservation and conflict management in the Kagera, Sio and Yala Catchments of the Lake Victoria Basin. The project was sponsored by SIDA/SAREC through the Inter University Council of East Africa via the Victoria Research Initiative programme (VicRes)

- 5. **2007**: Jointly received a research grant of **US\$ 3,000** by the Organization of Social Science Research in East and Southern Africa (OSSREA) to conduct research on 'Drought Management in Masinga Division of Machakos District, Kenya: Impacts, Societal Perception and Response Strategies'
- 6. **2001-2002**: Jointly awarded a research grant of **US\$ 6,000** by the African Institute for Capacity Development (AICAD) to conduct research on 'The Potentials of Indigenous Knowledge Systems for Environmental Conservation among the Pastoral Community in Narok District, Kenya
- 7. **2003-2004**: Jointly won a research grant of **KShs 300,000** from the National Council for Science and Technology to conduct a study on 'Forecasting of Extreme Climatic Events in Kenya with a Case Study on Drought Management in Kajiado District, Kenya'
- 8. **2001**: Received a research grant of **US\$ 3,000** from the Organization of Social Science Research in East and Southern Africa (OSSREA) to conduct a study on 'Community Initiatives for Managing Water Resources in Kajiado District, Kenya'
- 9. **1999**: Awarded a six months' fellowship from the Germany Government through the Germany Academic Exchange Service, DAAD to conduct a PhD literature search and do initial analysis and thesis write ups at the *Justus Von Liebig University*, Gießen, Germany
- 10. **1998**: Awarded a Germany Academic Exchange Service (DAAD) scholarship to conduct PhD research on 'The Characteristics of Hydrological Drought in the Upper Parts of the Tana Basin, Kenya'

PUBLICATIONS

(a) Book Chapters

- 1. Alice Kosgei and **Jones Agwata**, **2021**. Overview of Innovative Crop Production Strategies for Sustainable Food Security in Kenya. In: **Morris N. Amutabi and Linnet Ahmasi (Editors)**, *Global Dynamics in Africa*, Cedred Publications, Nairobi. PP 23-31. **ISBN 978-9966-116-53-6**
- **2. Jones F. Agwata, 2016.** Implications of Climate Change on Water Resources in Kenya and Adaptation Options. In: **Hamadi, I. Boga, Peninah A. Obudho, Jones F. Agwata** *et al.*, **(Editors)**, *The Principle of Sustainability: An Interdisciplinary View, Kenya DAAD Scholars Association, Nairobi*. PP 196-201, **ISBN 9966-923-41-1**

- 3. Jones F. Agwata & Peter Abwao, 2007. Socioeconomic and Environmental Concerns of Water Resources Management in Kenya with Particular focus on the Tana Basin. In: Waswa, F., Otor, S., Olukoye, G. & Mugendi, D. (Editors), Environment and Sustainable Development: A Guide for Higher Education in Kenya, Volume II, School of Environmental Studies and Human Sciences, Kenyatta University. PP 209-223, ISBN 9966-776-34-6
- 4. **Jones F. Agwata, 2006**. The Resource Potential of the Tana River Basin of Kenya with Particular Focus on the Buathonaro Watershed. In: **Forsch, G., Thiemann, S. & Winnege, R.** (*Editors*), 'Participatory Watershed Management Plan for Bwathonaro Watershed, Kenya'. Water Resources Publications Volume 05, PP7-22. **ISSN No. 1613-1045**
- 5. **Jones F. Agwata, 2006**. Mainstreaming Climate Change Issues in the Attainment of the Millennium Development Goals. In: **Kenyatta University**, *'The Role of African Universities in the Attainment of The Millennium Development Goals'*, *PP* 216-220. **ISBN No 9966-776-05-2**
- 6. **Jones F. Agwata, 2005**. Water Resources Utilization, Conflicts and Interventions in the Tana Basin of Kenya. In: **Forsch, G., Thiemann, S. & Winnege, R.** (*Editors*), 'Topics of Integrated Water Resources Management'. Water Resources Publications Volume 03, PP 13-24. **ISSN No 1613-1045**.

(b) Journal Papers

- 1. Machan, S.N.; **Agwata**, **J.F**.; Oguge, N.O. **2022**. Environmental Factors Influencing the Sustenance of the Camel Milk Value Chain in Isiolo County, Northern Kenya. *Resources* **2022**, *11*(3), 27. https://doi.org/10.3390/resources11030027
- 2. Machan, S. N., **Agwata, J. F.**, & Oguge, N. O. **2022**. Aspects of the sustainability of the camel milk value chain and its regulatory framework in Isiolo County, Northern Kenya. *Journal of Agriculture, Food Systems, and Community Development,* 11(2):199–216. https://doi.org/10.5304/jafscd.2022.112.007
- 3. Josphat M. Gikonyo, Stephen O. Anyango & Jones F. Agwata 2022. Assessing the Influence of Policy and Institutional Frameworks on the Effectiveness of Environmental Programmes in Selected Secondary Schools in Muranga County, Kenya. East African Journal of Environment and Natural Resources, 5(1):218-230. https://doi.org/10.37284/eajenr.5.1.777.
- 4. Josphat M. Gikonyo, **Jones F. Agwata** and Stephen O. Anyango **2022**. Assessing the factors influencing effectiveness of environmental programmes in secondary schools in Murang'a County, Kenya. *International Journal of Educational Policy Research and Review*, *9*(4): 88-96. https://doi.org/10.15739/IJEPRR.22.010.
- 5. Gikonyo, J. M., Anyango, S. O. & **Agwata, J. F.** 2021. Assessing the Influence of School Environmental Programmes on the Environmental Attitudes and Behaviour

- Among Secondary School Students in Muranga County, Kenya. *Advances in Social Sciences Research Journal*, 8(8): 438-454.
- 6. Steven, N. Machan; **Jones Agwata** and Nicolas Oguge, **2018**. Analysis of Challenges to the Sustainability of Livestock Food System in Isiolo County, Kenya. *World Journal of Innovative Research*, *5*(5): 59-68.
- 7. Muttua, J. K. M., **Agwata**, J., Anyango, S., and Oguge, N. **2018**. Appraising Policy, Legal and Institutional Frameworks Used in Promoting Sustainable Management Approaches in Mavoko Municipality Within Machakos County. *Advances in Social Sciences Research Journal*, *5*(10): 569-589.
- 8. Ezekiel Kemboi, **Jones F. Agwata** and Stephen O. Anyango, **2017**. Institutional Impact on Pastoral Community Resilience to Drought in Kajiado County, Kenya. *International Journal of Science and Research*, *1-7*, ISSN 2319-7064.
- 9. Ezekiel Kemboi, **Jones F. Agwata** and Stephen O. Anyango, **2017**. Socioeconomic Impacts of Drought Among Pastoral Community in Kajiado County, Kenya. *International Journal of Science and Research*, *1-6*, ISSN 2319-7064.
- 10. Gitonga, E. K., **Agwata, J. F.** & Gathura, P. B. **2017.** Factors Affecting Sand Harvesting in Machakos County, Kenya. *International Journal of Scientific Research, Vol. 6, Issue* 11: 277-280.
- 11. Mutua, J. K. M., **Agwata, J. F.** & Anyango, S. **2017.** Effectiveness of Sanitation Policy Instruments in Mavoko Municipality of Machakos County, Kenya. *Cogent Environmental Science* (2017), 3: 1339387.
- 12. Mutua, J. & **Agwata, J. 2017.** Challenges and Interventions in Sanitation Management Approaches in Mavoko Municipality. *Journal of Resources Development and Management, Vol.* 32 (2017). ISSN 2422-8397.
- 13. Mutua, J. K. M., & **Agwata, J. 2017.** Urban Sanitation Management Approaches in Mavoko Town of Machakos County in Kenya. *IOSR Journal of Humanities and Social Science (IOSR-JHSS), Vol.* 22, Issue 7, Ver. 11: 22-29
- 14. Oribu, W., King'oriah, G. & **Agwata, J.**, **2014.** "A New Avenue to Fight Unsustainable Development at the Lake Naivasha Wetland of Nakuru County in Kenya: The Role of Trade Associations", *International Journal of Development and Sustainability*, *3*(7): 1595-1610
- 15. Oribu, W. S., **Agwata, J. F.** & Gongera, E. G., **2014.** Analysis of Environmental Initiatives on Business Performance Sustainability at the Lake Naivasha Ecosystem, Kenya. *Journal of Environment and Earth Science*, **4**(2): 57-72

- 16. Oribu, W., Kingoriah, G., **Agwata, J.** & Gongera, G. E., **2014.** Business Sustainability: A Need to Re-Look Environmental Practices and Initiatives. *European Journal of Business and Management*, 6(3): 143-152
- 17. Teresia W. Gathagu & **Jones F. Agwata, 2014.** Policy Options for Enhancing Women's Participation in Managing Water Resources in Kajiado County, Kenya. *International Journal of Development Research*, Vol. 4, Issue 5, 1048-1055
- 18. **Jones F. Agwata, 2014**. Spatial Characteristics of Drought Duration and Severity in the Upper Tana Basin, Kenya. *International Research Journal of Environment Sciences,* 3(4): 18-26
- 19. **Jones F. Agwata, 2014**. A Review of Some Indices Used for Drought Studies. *Civil and Environmental Research, 6*(2): 14-21
- 20. Solomon Balew, **Jones Agwata** & Stephen Anyango, **2014**. Determinants of Adoption Choices of Climate Change Adaptation Strategies in Crop Production by Small Scale Farmers in Some Regions of Central Ethiopia. *Journal of Natural Sciences Research*, **4**(4): 78-93.
- 21. Peter S. Gichira, **Jones F. Agwata** & Kariuki D. Muigua, **2014**. Climate Finance: Fears and Hopes for Developing Countries. *Journal of Law, Policy and Globalization, Vol.* 22, 1-7
- 22. Eunice W. Mugera, **Jones F. Agwata** & Stephen O. Anyango, **2014**. Sources, Accessibility and Reliability of Water for Various Uses in Ruiru District of Kiambu County, Kenya. *International Journal of Sciences: Basic and Applied Research, Vol.* 14(1), 164-173
- 23. Teresia W. Gathagu, **Jones F. Agwata** & Richard M. Mulwa, **2014**. Socioeconomic Factors Hindering the Participation of Women in Managing Water Resources in Kajiado County, Kenya. *IOSR Journal of Humanities and Social Science, Vol.* 19, Issue 1, 75-85
- 24. **Jones F. Agwata**, Wellington N. Wamicha & Christopher M. Ondieki, **2014**. Modelling of Hydrological Drought Events in the Upper Tana Basin of Kenya. *IOSR Journal of Mechanical and Civil Engineering, Vol. 11*, Issue 1, 41-48
- 25. **Jones F. Agwata**, Wellington N. Wamicha & Christopher M. Ondieki, **2007**. Regionalization of the Upper Tana Basin of Kenya using Streamflow Records. *Journal of Civil Engineering Research and Practice, Vol.* 4(2), 75-84
- 26. **Jones F. Agwata, 2005**. Water Management in the Tana Basin of Kenya: Potential Conflicts and Interventions. *Asian Journal of Water, Environment and Pollution, Vol., 2*(2), 69-74

(c) CONFERENCE, SEMINAR & WORKSHOP PAPERS PRESENTED

- 1. **Agwata, Jones F.** & Mwabu, Angelyne, M. 2022: *A Critical Review of Literature on Green Marketing and Its Applications in Manufacturing Firms in Kenya.* Paper Presented at the 6th DeKUT International Conference held at the University from 9th -11th November, 2022
- 2. Mwabu, Angelyne, M. & **Agwata, Jones, F. 2022**: *Influence of E-Service Quality and University Reputation on Students' E-Satisfaction in Public Universities in Kenya in the Wake of Covid-19*. Paper Presented at the 6th DeKUT International Conference held at the University from 9th -11th November, 2022
- 3. Patrick Owiny, **Jones Agwata** and Kariuki Muigua, **2021**: Factors Influencing Public Participation in Environmental Impact Assessment of the Proposed RUAI Sanitary Landfill Project in Nairobi City County, Kenya. Paper Presented at the 6th Maasai Mara University International Conference, Narok, **28**th **-30**th **June**, **2021**
- 4. **Agwata, Jones F. 2021**: Reflections on Policies and Institutional Mechanisms for Climate Change Management in Kenya. Paper Presented at the 3rd Annual International Conference held virtually at Machakos University, 22nd 25th June, 2021
- **5. Agwata, Jones F. 2021:** *Potential Challenges of Drought Coping Strategies in Machakos County, Kenya.* Paper Presented at the 3rd Annual International Conference held virtually at Machakos University, 22nd 25th June, 2021
- 6. Nancy Wanjala Barasa, **Jones F. Agwata** and Robert Kibugi, **2021**: *Influence of Climate Variability on the Livelihoods of Rural Women in Bungoma County, Kenya*. Paper Presented at the 3rd Annual International Conference held virtually at Machakos University, 22nd 25th June, 2021
- 7. Steve N. Machan, **Jones F. Agwata** and Nicholas O. Oguge, **2021**: Environmental Factors Influencing the Sustenance of Camel Milk Value Chain in Isiolo County, Kenya. Paper Presented at the 3rd Annual International Conference held virtually at Machakos University, 22rd 25th June, 2021
- 8. Ezekiel Kemboi, Stephen Anyango, **Jones Agwata** and Collins Odote, **2021**: *Factors Influencing Resilience of Pastoralists to Drought in Kajiado County, Kenya*. Paper Presented at the 3rd Annual International Conference held virtually at Machakos University, 22nd 25th June, 2021
- 9. Josphat M. Gikonyo, Stephen O. Anyango and **Jones F. Agwata**, **2021**: *Influence of Environmental Programmes on Students' Attitudes and Behavior in Addressing Environmental Issues in Murang'a County, Kenya*. Paper Presented at the 3rd Annual International Conference held virtually at Machakos University, 22nd 25th June, 2021

- 10. **Agwata, Jones F., 2019**: Human Resource Management Function in Research Administration and Grant Writing. Workshop on Research Administration and Grant Writing Workshop Held at the School of Physical Sciences Boardroom, Chiromo Campus, University of Nairobi. **12**th **14**th **March, 2019**
- 11. **Agwata, J. F. & Lumiti, G. M. 2016**: Benefits and Challenges of Research and Innovation from Institutions of Higher Learning in Kenya. Proceedings of an International Conference for the Kenya DAAD Scholars Association held at Karatina University Main Campus, Karatina. **10**th **12**th **February, 2016**
- 12. **Agwata, J. F. 2016**: Towards the Development of a Disaster Management Policy for Taita Taveta County, Kenya. *Proceedings of the International Conference on Flood Risk and Urban Planning on the theme Coping with Flooding and Soil Erosion in City and Regional Planning* held at Taita Taveta University College, Voi, Kenya. **1**st **4**th **June, 2016**
- 13. **Agwata, J. F. 2016**: Causes and Implications of Water Use Conflicts in the Tana River Basin of Kenya. *Proceedings of a Paper presented at the Humboldt Annual Conference on the Theme: Research and Networking: Laying the Foundation for the Sustainable Development Goals*, held in Naivasha. **6th 8th April, 2016**
- 14. **Jones F. Agwata, 2012**. Towards the Development of an Integrated Environmental Management Framework for Kajiado County in Kenya. Paper presented at the KDSA's Conference on the Role of Science and Technology for Devolved Governance in the New Constitutional Dispensation in Kenya held at Bondo University College
- 15. **Jones F. Agwata & Wilson Nyaoro, 2007**. Drought Coping Strategies at the Local Level: The Case of Masinga Division of Machakos District, Kenya. *The KDSA Annual Conference Workshop, Egerton University, Njoro*, **17**th**-19**th **Oct.**, **2007**
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NATIONAL AND INTERNATIONAL PROFESSIONAL AFFILIATION

- **1. Member**, Kenya National Academy of Science-Membership No: MKNAS 211 (since 2020-todate)
- **2. Peer Reviewer** for Commission for Higher Education in Curriculum Evaluation, Academic Institutional Review, Research and Consultancy (June, 2020-)
- **3. Chairman**, Board of Management of State House Girls High School, Nairobi (May, 2022 June, 2025)
- **4.** Editorial Board Member, Journal of Sustainability, Environment and Peace (eISSN: 2663-4627), Wangari Maathai Institute for Peace and Environmental Studies, University of Nairobi (Jan. 2020 -)

- **5. Alternate Member**, Disaster Management Technical Committee of the Kenya Bureau of Standards, KEBS/TC 144 (2021-2024)
- **6. Alternate Member**, Higher Education Services Technical Committee of the Kenya Bureau of Standards, KEBS/TC 176 (2021-2024)
- **7. Member**, Environmental Management Technical Committee of the Kenya Bureau of Standards, KEBS/TC 156 (Dec., 2020 Dec., 2023)
- 8. Member, the Environment Institute of Kenya, Kenya (2015 -)
- **9. Member**, International Society for Development and Sustainability, Japan (Membership ID M140147) (2014 -)
- **10. Member,** the International Association of Hydrological Sciences, UK (2003-)
- **11. Member,** Board of Management at State House Girls High School (2013 to date)
- **12. Member**, Thematic Working Group 2 on *Enabling Policy and Regulatory Framework*, National Climate Change Strategy Action Plan, Ministry of Environment and Mineral Resources, Kenya
- **13. Chair**, Acoustics and Noise Pollution Technical Committee, Kenya Bureau of Standards (2004-2009)
- **14. Member**, Occupational Health and Safety Technical Committee, Kenya Bureau of Standards (2007-2009)
- **15. Member**, National Steering Committee on Desertification Process in Kenya, National Management Authority (2007-2009; 2016-to date)
- **16. Member**, Executive Committee of the Kenya Meteorological Society (2010-todate)
- **17. Research Fellow**, American Biographical Institute, USA (2005-)
- **18. Life Member,** Kenya Meteorological Society (since 2012)
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