



RESEARCHER ID :

SCOPUS ID :

ORCHID:

Position: Senior Research Scientist

PERSONAL INFORMATION

- 1.1. NAME : Willis Oula Atie
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- 1.5. NATIONALITY: Kenyan
- 1.6. GENDER : Male

2. QUALIFICATIONS

2.1. Academic Qualifications

- 2006 - Master of Science (Forestry), University of Toronto, Canada
- 1998-2002- Bachelor of Science (Forestry) Moi university, Eldoret, Kenya
- 1992-1994- Diploma in Applied Sciences (Applied Biology), the Kenya Polytechnic, Nairobi

2.2. Key Competencies

Agroforestry and soil fertility

2.3. Other Courses

4th November to 29th November, 2019: Senior Management Course: Kenya School of Government, Baringo Campus

9th September to 12th October, 2013: Commonwealth Professional Fellowship on Bioenergy and Climate Change at the University of Edinburgh, Scotland, UK.

13th October to 2nd November, 2008: A short course on: Strategic Planning, Project Cycle Management, Monitoring and Evaluation and Proposal Writing, organized by Kenya

Agricultural Productivity Program at the EAST College (currently Embu University College), Kenya.

27th July - 2nd August 2008: IFS/ISAR course: Enhanced Utilization of phosphate rocks for Agricultural Development in Sub-Saharan Africa, Kigali Rwanda (sponsored by Sida-NATUR, Sweden).

1st March - 30th November 1997- Research Fellowship Training at the Joint FAO/IAEA-Agriculture and Biotechnology Laboratory in the field of "Use of Isotope and Radiation Methods in Soil and Water Management and Crop Nutrition Studies"- Seibersdorf, Austria

3. EMPLOYMENT HISTORY

1st July 2019 to date- Senior Research Scientist, Kenya Forestry Research Institute (KEFRI), P.O Box 20412 - 00200 Nairobi, Kenya

1st February 2014 – 30th June 2019-Research Scientist I, Kenya Forestry Research Institute (KEFRI), P.O Box 20412 - 00200 Nairobi, Kenya

5th November, 2009 - 31st January, 2014- Research Officer II, Kenya Forestry Research Institute (KEFRI), P.O Box 20412 - 00200 Nairobi, Kenya

1st July 2004 - 4th November, 2009 – Assistant Research Officer, Kenya Forestry Research Institute (KEFRI), P.O Box 20412 - 00200 Nairobi, Kenya.

1st July 1995 – 30th June 2004 - Lab Technologist III, Kenya Forestry Research Institute (KEFRI), P.O Box 20412 - 00200 Nairobi, Kenya.

22nd August 1988 – 30th June 1995 – Lab Technician III- Kenya Forestry Research Institute (KEFRI), P.O Box 20412 - 00200 Nairobi, Kenya.

4. ADMINSTRATIVE RESPONSIBILITY

- 1st October, 2019 to date: - Assistant Regional Director, KEFRI-Kakamega Forestry Research Sub-Region
- 1st July 2010 – 28th February, 2017:- Officer In-Charge of KEFRI-Turbo Forestry Research Sub-Centre

5. PUBLICATIONS

5.1. Journal papers

5.2. Book Chapter

5.3. Technical Notes /Protocols/Guidelines

- Mbae, M. ; Ngugi, J. ; Kinyanjui, M.; Balozi, K.; Ojuang, F. ; Nduati, P.; **Atie, W.**; Hyvonen P.; Alm, J. ; Balazs A. and Parikka, H. 2016. Field manual for biophysical forest resources assessment in Kenya. *Improving Capacity in Forest Resources Assessment in Kenya (IC-FRA)*.
- Alm,J.; Kairo, J. ; **Atie, W.** and Ndakwe , B. 2016. Manual for preparation and analysis of forest soils and mangrove sediments. *Improving Capacity in Forest Resources Assessment in Kenya (IC-FRA)*.
- Nduati, P.; Muchiri, M.N.; Kirongo, B.B.; Ojuang, F.; Ngugi, J.; **Atie, W.**; Hyvonen, P.; Haakana, H.; Alm, J.; Balazs, A. and Parikka. 2016. Technical report on the pilot inventory. *Improving Capacity in Forest Resources Assessment in Kenya (IC-FRA)*.

5.4. Policy Briefs

6. RESEARCH

6.1. Completed

Application of bio-char from sugar baggase as organic soil amendment material in agricultural production in, Homa Bay County, Kenya

6.2. Ongoing research

- Assessing the potential of biochar from sugarcane bagasse as a tree nursery potting media for the sugar belt zones
- Assessment of tree-crop interactions of *Grevillea robusta*, *Maesopsis eminii* and *Gmelina arborea* in agroforestry based systems
- Contribution of trees to soil chemical and physical conditions in natural forests, forest plantations and on-farm farm woodlots over a period of time

6.3. Mentorship and supervision

- Three (3) research interns at Turbo and Kakamega Sub-Centres respectively

7. INNOVATIONS AND PATENTS (Intellectual Property)

8. CONFERENCES/SEMINARS/WORKSHOPS

8.1 Presentation of Papers at Academic and Professional Conferences

Atie W., Muga M., Ogutu P.C., Ellingsen J. and Tonnesen J. (2018): Application of Bio-Char from Sugar Baggase as Organic Soil Amendment Material in Agricultural Production in Homa Bay County, Kenya. Kenya Forestry Research Institute. *In: Contributions of Forestry Research to Sustainable Development: Proceedings of 5th KEFRI Scientific Conference 16- 19th April 2018, Muguga, Kenya* pg 150-157.

Atie W.O., Mbinga J., Cherono F., Omondi S., Bala P., Muchiri M.N. and Chagala-Odera E. (2018). Growth Performance of Second Generation *Pinus maximinoi* and *P. tecunumanii* Progeny Trials at Turbo, Kenya. *In: Contributions of Forestry Research to Sustainable Development: Proceedings of 5th KEFRI Scientific Conference 16- 19th April 2018, Muguga, Kenya* pg 2-11.

Omondi S.F., Muchiri M.N., Chagala-Odera E., Oballa P.O., **Atie W.O.** and Cherotich L. (2018). Early Growth Performance and Survival of Pine Hybrids in Turbo and Muguga, Kenya. *In: Contributions of Forestry Research to Sustainable Development: Proceedings of 5th KEFRI Scientific Conference 16- 19th April 2018, Muguga, Kenya* pg98-109.

Atie, W.O. and Timmer V.R. 2009. Responses of *Sesbania sesban* to rock phosphate, biofertilizer and rhizobia when planted in degraded soils of western Kenya. A paper presented at the 25th Conference of the Soil Science Society of East Africa, 7-11th December 2009, Moshi Tanzania.

Atie, W.O.; Imo M.; Odee, D.W. and Timmer, V.R. 2005. Early biological nitrogen fixation by some improved-fallow tree/shrub species. Paper presented at the FAO/IAEA technical meeting on "Combating Soil Degradation to Enhance Food Security in Africa: The Role of Nuclear Techniques in Developing Improved Soil, Water and Nutrient Management Practices" ICRAF Headquarters, Nairobi, Kenya 10-12 October 2005

Atie, W.O.; Hood, R.; Martijevic M. and Syambushul R. 2002. *The influence of quality parameters on plant N uptake from organic residues.* Paper presented at the 17th World Congress for Soil Science, 14-21 August 2002 in Bangkok Thailand

8.2 Participation in Workshops/Conferences

- 5th KEFRI Scientific Conference 16- 19th April 2018, Muguga, Kenya

- East Africa Regional Tree Improvement Conference Held at the Red Court Hotel Nairobi, Kenya from 18th to 20th February, 2013
- 25th Conference of the Soil Science Society of East Africa, 7-11th December 2009, Moshi Tanzania.
- 2nd World Congress of Agroforestry, 23-28 August 2009, UNEP Headquarters, Nairobi, Kenya.
- The FAO/IAEA technical meeting on “Combating Soil Degradation to Enhance Food Security in Africa: The Role of Nuclear Techniques in Developing Improved Soil, Water and Nutrient Management Practices” ICRAF Headquarters, Nairobi, Kenya 10-12 October 2005
- The 17th World Congress for Soil Science, 14-21 August 2002 in Bangkok, Thailand

8.3 Convening/Coordinating Conferences

9 PROFESSIONAL ENGAGEMENT

9.1 Training

March 2019: -Training of trainers for the UNEP/GEF funded project: *Scaling up sustainable land management and agro-biodiversity conservation to reduce environmental degradation in small scale agriculture in Western Kenya*, on agroforestry practices, rehabilitation of degraded hotspots and tree nursery establishment, practices and management.

9.2 Consultancies

June-December, 2010: Assessing structures, constraints and performance CBNRM groups in the trans-boundary within Masai Mara-Serengeti Ecosystem for the Lake Victoria Basin Commission

9.3 Collaboration with external organizations

Collaboration with KALRO in implementing the project *“Scaling up sustainable land management and agro-biodiversity conservation to reduce environmental degradation in small scale agriculture in Western Kenya”*

10 EXTERNAL AND INTERNAL RESEARCH GRANTS

11 LOCAL, REGIONAL & INTERNATIONAL APPOINTMENTS

11.1 Local

- 11.2 Regional
- 11.3 International

12 AWARDS AND RECOGNITION

13 CONTRIBUTION TO KEFRI's ADVANCEMENT

14 MEMBERSHIP TO PROFESSIONAL BODIES

1. Forest Society of Kenya
2. Soil Science Society of East Africa

15 REFEREES

Prof. Vic R. Timmer,
Faculty of Forestry, University of Toronto
Willcocks Street, Toronto, Ontario Canada M5S 3B3
Email: vic.timmer@utoronto.com

Dr. David Odee,
Kenya Forestry Research Institute
P.O. Box 20412-00200, Nairobi, Kenya
Email: dodee@kefri.org

Prof. Daniel Nyamai
School of Agriculture, Natural Resources and Environmental Sciences
Rongo University College
P.O. Box 103 – 40406, Rongo, Kenya
Email : nyamai.kefri@gmail.com