

CV FORMAT – KEFRI SCIENTISTS

PICTURE



RESEARCHER ID :

SCOPUS ID :

ORCHID:

Position: Principal Research Scientist –
Agroforestry/Knowledge Management

PERSONAL INFORMATION

- | | |
|--------------------|---------------------------------------|
| 1.1. NAME | Paul Kipkorir Tuwei |
| 1.2. ADDRESS | P. O. Box 20412-00200, Nairobi, Kenya |
| 1.3. PHONE | 0722 740830 |
| 1.4. EMAIL ADDRESS | ptuwei@kefri.org |
| 1.5. NATIONALITY | Kenyan |
| 1.6. GENDER | Male |

2. QUALIFICATIONS

2.1. Academic Qualifications

1994 - 1997 - MSc. in Forestry Sokoine University of Agriculture, Tanzania

1987-1990- BSc. in Forestry, Moi University, Kenya

2.2. **Key Competencies** Editing publications, dissemination of research findings and production of extension/training materials,

2.3. Other Courses -

19 November – 2 December 2017, Knowledge Co-Creation Program, held in Japan.

18 – 21 January 2016. Records Management Training in KEFRI Karura.

28 April – 2 May 2008: Training on Scientific Communication and Publishing, University of Nairobi

21 – 25 April 2008. Project Monitoring and Evaluation Course at Kenya Institute of Administration.

31 March – 4 April 2008: Training on Public Relations, Community Mobilization and Information Dissemination, KEFRI, Muguga

3 December – 25 January 2008; Training on Strategic Leadership Development Programme, Kenya Institute of Administration

3. EMPLOYMENT HISTORY

September 2020 – November 2020: Acting Deputy Director Forest Research Support Services

2015- 2020: Head of Knowledge Management Section KEFRI Headquarters

2004 - 2015: Head of information, KEFRI Headquarters

1992 – 2004: Agroforester, National Agroforestry Research Project, Embu

1990 – 1992: Officer in Charge KEFRI Turbo Sub station

1990 Assistant Research Officer, KEFRI headquarters

4. ADMINISTRATIVE RESPONSIBILITY

5. PUBLICATIONS

5.1. Journal papers

Tuwei, P., Chagala-Odera, E., Kiprop, J. and Wanjiku, J., (2019). Adoption of *Calliandra Calothyrsus* for Improved Dairy Production in Embu County, Kenya. *Journal of Biology, Agriculture and Healthcare*, Vol.9, No. 10, 2019.

Tuwei, P., Chagala-Odera, E., Kiprop J. and Wanjiku, J. (2019). Management of *Prosopis juliflora* invasion in Baringo County, Kenya through Utilization. *Journal of Economics and Sustainable Development*, Vol.10, No. 10, 2019

Franzel, S., Wambugu, C., **Tuwei, P.** and Karanja, G. 2003. The adoption and scaling up of the use of fodder shrubs in central Kenya. *Tropical grasslands* 37: 239 -250.

Tuwei, P., Kangara, J.N.N., Mueller-Harvey,I., Poole, J., Ngugi, F.K. and STEWART, j.l. 2003. Factors affecting biomass production and nutritive value of *Calliandra calothyrsus* leaf as fodder for ruminants. *Journal of Agricultural Science*. 141: 113 - 127

Wambugu, C., Franzel, S., **Tuwei, P.**, and Karanja, G. 2001. Scaling up the use of fodder shrubs in central Kenya. *Development and Agroforestry in Practice*. Vol II, No. 4 , 487 – 494.

5.2. Books

Measures for Combating Desertification: Case Studies from Horn of Africa, (2019)

Guideline on Effective Measures for Combating Desertification for Achieving Sustainable Development in Horn of Africa (2019)

5.3. Book Chapter

Mugwe, J.N., Okoba, B.O., Mugendi D.N., and **Tuwei, P.K.** 2001. Soil conservation and fertility improvement through use of leguminous shrubs in central highlands of Kenya. In: managing nutrient cycles to sustain soil fertility in sub-saharan Africa. Bationo (eds). Academy Science Publishers, Nairobi, Kenya. Chapter 41: 583-591

5.4. Technical Notes /Protocols/Guidelines

CADEP Tools (Protocols)

CADEP-SFM Tools for Identifying Good Practices

A Tool for Collecting Good Practices for Combating Desertification in the Horn of Africa

Format for compiling good practices: A CADEP-SFM tool

CADEP Good Practices

Growing Improved Mango On-farm in Kitui County, Kenya

Boundary Tree Planting on Farms in Drylands of Kenya

River Bank Stabilization Using Bamboo

Growing *Melia volkensii* for Improved Livelihood and Environmental Conservation in Makueni County, Kenya

Soil and Water Conservation through Terracing in Makueni County, Kenya

Natural Pasture Improvement for Enhanced Livestock Productivity in Makueni County, Kenya

Sustainable Production of Bitter Gum from Indigenous Aloe Species in Mogotio Sub-County, Kenya

Domestication and Utilization of *Aloe turkanensis* in Turkana County

Rehabilitation of Rangelands through Grass Re-seeding in Turkana County

Restoration and Conservation of Mangrove Forests in Kilifi County

On-farm Propagation of *Melia volkensii* through Seed in Mbeere South Sub-County

Growing Bamboo On-Farm as an Alternative to Traditional Cash Crops in Migori County

Management of *Prosopis juliflora* Invasion through Production of Animal Feed in Marigat Sub-County, Kenya

Management of *Prosopis juliflora* Invasion through Charcoal Production using Improved Earth Kiln in Marigat Sub-County, Kenya

Small-Scale Soap Production from *Aloe vera* in Koyonin, Marigat Sub-County, Kenya

Reclamation of Land Degraded by *Prosopis* Invasion for Sustainable Agricultural Production in Marigat Sub-County, Kenya

Brochures

Production of Aloe bitter gum from *Aloe secundiflora* (2020). CADEP-SFM Brochure No. 1

Production of Soap from *Aloe vera*. (2020). CADEP-SFM Brochure No. 2

Charcoal Production from *Prosopis* using Improved Earth Kiln. (2020). CADEP-SFM Brochure No.3

Production of Livestock Feed from *Prosopis juliflora* Pods. (2020). CADEP-SFM Brochure No. 4

Reclaiming Land Invaded by Prosopis for Agricultural Production in Marigat, Kenya. . (2020). CADEP-SFM Brochure No. 5

Making Briquettes using Charcoal Fines (2020). CADEP-SFM Brochure No. 6

Growing *Melia volkensii* for Improved Livelihood and Environmental Conservation in Makueni County, Kenya. (2020). CADEP-SFM Brochure No. 7

Natural Pasture Improvement for Enhanced Livestock Productivity in Makueni County, Kenya. (2020). CADEP-SFM Brochure No. 8

Njuguna J., Wanjiku J., **Tuwei P.**, Kamondo B. and Ochieng D. 2014. Growing *Grevillea robusta* in Kenya: Management and Challenges. KEFRI, Kenya.

Sigu G., Kamondo B., **Tuwei P.**, Ochieng D. and Wanjiku J. 2014. Bamboo Propagation Methods.

Tree Nursery Establishment and Management, KEFRI, Kenya. A video

- Roothaert, R., Karanja, G.M., Kariuki, I. Paterson, R. **Tuwei, P.** Kiruiro, E. Mugwe, J., and Franzel, s. 1998. Calliandra for Livestock. Technical Bulletin No. 1.

5.5. Policy Briefs

Terms of Reference for African Initiative for Combating Desertification to Strengthen Resilience to Climate Change in the Sahel and Horn of Africa: Horn of Africa (2017)

6. RESEARCH

6.1. Completed

Agroforestry research 1992 -2004

Dissemination of research findings 2005 -2020

Adoption of *Calliandra calothyrsus* for improved dairy production 2018

Management of *Prosopis juliflora* invasion in Baringo County, Kenya through Utilization 2019

Economic Contribution of Baobab Fruit *Adansonia digitata* to Household Incomes and Livelihoods in Makueni County- 2019

6.2. Ongoing research

Capacity Development Project for Sustainable Forest Management (CADEP-SFM) 2016-2021

6.3. Mentorship and supervision

Mentorship of interns and new staff on contract under Knowledge Management Section and Dissemination Officers

7. INNOVATIONS AND PATENTS (Intellectual Property)

8. CONFERENCES/SEMINARS/WORKSHOPS

8.1. Presentation of Papers at Academic and Professional Conferences

Tuwei, P., Chagala-Odera, E., Kiprop J. and Wanjiku, J. (2018). Management of *Prosopis juliflora* Invasion in Baringo County through Utilization. In: Cchagala-Odera E., Ochieng D., Muchiri M.N., Gichora M., Tuwei p., Kamondo B., Mengich E., Muthike G., Chiteva R., Kagombe J., Cherotich L., Gathogo M., Muthama A., and Oduor N. (Eds) 2018. Contribution of Forestry research to Sustainable Development. Proceedings of the 5th KEFRI Scientific Conference, 17 – 19 April 2018 at KEFRI Headquarter, Muguga, KEFRI, Kenya. 575 -582

E. Chagala-Odera, R. Mwendandu, J. Wanjiku, **P. Tuwei**, and J. K. Ndufa (2017). Inception Report: Status of Desertification, Land Degradation and Drought in Kenya paper presented during Knowledge Co-Creation Program Japan, 18th November to 3rd December 2017

Muchiri M.N., Kamondo B., Ochieng D. **Tuwei P.**, and Wanjiku J. 2006. Recent Advances in Forestry Research for Environmental Conservation, Improved Livelihoods and Economic Development. Proceedings of the 3rd KEFRI Scientific Conference. 6 – 9 October 2008, KEFRI Headquarters, Muguga. KEFRI, Kenya.

Muchiri M.N., Kamondo B., Ochieng D., **Tuwei P.**, and Wanjiku J. 2006. Forestry Research in Environmental Conservation, Improved Livelihoods and Economic Development. Proceedings of the 3rd KEFRI Scientific Conference. 6 – 9 November 2006, KEFRI Headquarters, Muguga. KEFRI, Kenya.

8.2. Participation in Workshops/Conferences

KEFRI 5TH Scientific Conference 17 -19 April 2018

Science writing workshop and a seminar on developing extension materials both held in 2012 at KEFRI, Muguga

KEFRI 3rd Scientific Conference held on 6 – 9 October 2008 at KEFRI, Muguga.

KEFRI 2nd Scientific conference November 2004 at KEFRI, Muguga

8.3. Convening/Coordinating Conferences

KEFRI 5th Scientific Conference 17 -19 April 2018

Science writing workshop and a seminar on developing extension materials both held in 2012 at KEFRI, Muguga

KEFRI 4th Scientific Conference 6-9 October 2008

KEFRI 3rd Scientific Conference held on 6 – 9 October 2008 at KEFRI, Muguga.

KEFRI 2nd Scientific conference November 2004 at KEFRI, Muguga

4th ADEP/AI-CD Regional Forum for Horn of Africa: Contributions of Networking and Knowledge Sharing towards Improving Access to Finance, 9 December 2020

3rd regional Forum for Horn of Africa: “African Initiative for Combating Desertification to Strengthen Resilience to Climate Change in the Sahel and Horn of Africa”, 14th to 16th May 2019

2nd CADEP Regional Technical Training Workshop for Horn of Africa on Collection, Documentation and Sharing of Good Practices, 1 - 12 October 2018

1st Regional Technical Training Workshop for Horn of Africa on Collection, Documentation and Sharing of Good Practices, KEFRI Headquarters Muguga, Nairobi, Kenya, MENR/JICA/KEFRI 2018

KEFRI Dissemination Officers Training Workshop on Writing and Repackaging Extension Materials, 10th to 14th September 2018

KEFRI Dissemination Officers Training Workshop on Collection, Documentation and Sharing of Good Practices, 10th to 14th July 2017

9. PROFESSIONAL ENGAGEMENT

9.1. Training

Training Dissemination Officers to undertake dissemination activities

9.2. Consultancies

9.3. Collaboration with external organizations

Six Horn of Africa countries on African Initiative for combating desertification in collaboration with Japan through JICA

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

- Edited all KEFRI scientific and extension publications that include Journal papers, Research notes, Technical notes, Manuals, Books and Booklets, leaflets and Guidelines for use by extension agents and farmers,.
- Edited KEFRI policy documents that include: KEFRI Strategic Plan 2018-2022; KEFRI Strategic Plan 2013 - 2018, KEFRI Strategic Plan 2008 – 2012, KEFRI Human Resource Manual
- Edited papers for KEFRI bi-annual scientific conference held in 2004, 2006, 2008 and 2018
- Implemented training for officers from Horn of Africa,

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14. MEMBERSHIP TO PROFESSIONAL BODIES

- Forestry Society of Kenya (FSK)

15. REFEREES

Dr. Ebby Chagala-Odera