

CURRICULUM VITAE: Washington Odongo Ochola (PhD)

Department of Agricultural Education and Extension, Egerton University, P.O. Box 536 Egerton - KENYA

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URL: <http://www.egerton.ac.ke>

Born: 7th January, 1967

Civil Status: Married with 2 Children

SPECIAL ACHIEVEMENTS AND AWARDS

- ◆ 2008 DECREE of EXCELLENCE in education, research and consultancy by the International Biographical Centre (IBC) - Cambridge, UK
- ◆ Biographed in the 2008 Marqui's WHO is WHO in the World of Science and Engineering
- ◆ Biographed in the 2008 CAMBRIDGE TOP 2000 INTELLECTUALS OF THE WORLD in recognition of contribution to research, development and academia.
- ◆ Biographed in the 2007 Edition of Marqui's WHO IS WHO IN THE WORLD for contribution to academia and humanity through research, consultancies, publications and professional achievements
- ◆ 1994 SCAU Outstanding MSc Thesis Award, Best Overall MSc Student Award.
- ◆ 1990 Agricultural Development Cooperation (ADC) Best Bachelors, (Agriculture) Student Award.
- ◆ 1984 - 1985 Best Student Awards in Biology, Geography, Mathematics and Overall Science Subjects.

EDUCATION

Agricultural University of Athens, Athens - Greece

2000 - 2003: PhD (Sustainable Land and Water Resources Management)

South China Agricultural University, Guangzhou - P.R. China

1992 - 1994: MSc (Agricultural Systems Management)

Egerton University, Njoro - Kenya

1987 - 1990: BSc (First Class Honors), Agricultural Education and Extension. GPA - 3.67 out of 4.00

Njiiri School, Murang'a District - Kenya.

1984 - 1985: Kenya Advanced Certificate of Education (KACE) - 17 points

Onjiko Secondary School, Kisumu District - Kenya

1980 - 1983: Kenya Certificate of Education (KCE)

Songhor Primary School, Kisumu District - Kenya.

1979: Certificate of Primary Education (CPE)

EXPERIENCE

Senior Lecturer, Department of Agricultural Education and Extension, Egerton University

2005 - Present

Key Responsibilities:

- ◆ Teaching undergraduate programmes and courses
- ◆ Teaching postgraduate programmes and courses
- ◆ Supervising Masters and PhD students
- ◆ Research and training and capacity building in the following:

Lecturer, Department of Agricultural Education and Extension, Egerton University

1997 - 2005

Key Responsibilities:

- ◆ Teaching undergraduate programmes and courses

- ◆ Research and training and capacity building
- ◆ University outreach programmes

**Assistant Lecturer, Department of Agricultural Education and Extension,
Egerton University**

1994 - 1997

Key Responsibilities:

- ◆ Teaching undergraduate programmes and courses
- ◆ Research and training and capacity building
- ◆ University outreach programmes

**Teaching Assistant, Department of Agricultural Education and Extension,
Egerton University**

1990 - 1994

Key Responsibilities:

- ◆ Teaching undergraduate programmes and courses
- ◆ Research and training and capacity building
- ◆ University outreach programmes

PUBLICATIONS

Technical/Scientific Publications

- OCHOLA, W.O.** (2008). Impacts of Agriculture on Environment: Challenges and Policy Options in the Face of Climate Change: Background Paper for UNEP Side-Event on Agriculture, Climate Change and Environment at the Sixteenth Session of the Commission on Sustainable Development (CSD-16), UNEP, New York - May 2008.
- ODADA, E.O. SCHOLLES, R. J., NOONE, K.J., MBOW, C., **OCHOLA, W. O.**, (Editors). 2008. *A Strategy for Global Environmental Change Research in Africa: Science Plan and Implementation Strategy*, Published by IGBP Secretariat, Stockholm, Sweden.
- ODADA, E.O. **OCHOLA, W.O.**, OLAGO. D.O. (2008). Drivers of ecosystem change and their impacts on human well-being in Lake Victoria basin. *African Journal of Ecology*. (Accepted Forthcoming)
- ODADA, E.O. **OCHOLA, W.O.**, OLAGO. D.O. (2008). Understanding future ecosystems changes in Lake Victoria basin using participatory local scenarios. *African Journal of Ecology*. (Accepted Forthcoming)
- DETLEF P. VAN VUUREN, **WASHINGTON O. OCHOLA**, SUSAN RIHA. (2008). *Outlook on Global Agricultural Change and its Drivers*: Chapter 4 in the International Assessment of Agricultural Science and technology for Development - IAASTD. The World Bank, Washington DC.
- ODADA, E.O., OLAGO, D.O., **OCHOLA, W.O.** 2006. Understanding future ecosystems changes in Lake Victoria basin using participatory local scenarios. In Yanda P.Z., Kangakawe, R.Y.M, Liwenga, E.T. *Proceedings of the International Conference on Ecosystems Change and Implications on Livelihoods of Rural communities in Africa*. Institute of Resource Assessment, University of Dar es Salaam, Dar es Salaam.
- ODADA, E.O., OLAGO, D.O., **OCHOLA, W.O.** 2006. Factors driving land use change: Effects on ecosystems services and human wellbeing in Lake Victoria basin. In Yanda P.Z., Kangakawe, R.Y.M, Liwenga, E.T. *Proceedings of the International Conference on Ecosystems Change and Implications on Livelihoods of Rural communities in Africa*. Institute of Resource Assessment, University of Dar es Salaam, Dar es Salaam.
- OCHOLA W. ET AL.** 2006. The Future Today - Environmental Scenarios for Africa. In UNEP. *Africa Environment Outlook: Our Environment, Our Wealth*. UNEP, Nairobi.
- ODADA, E.O. OLAGO, D.O., **OCHOLA, W.O.** (Eds). 2006. *Environment for Development: An Ecosystems Assessment of Lake Victoria Basin Environmental and Socio-Economic Status, Trends and Human Vulnerability*. UNEP/PASS, Nairobi.
- UNEP, 2006. *Lake Victoria Basin Environment Outlook: Environment for Development*. UNEP, Nairobi.
- OCHOLA W.O.** 2006. Land cover, land use and related issues in the Lake Victoria basin: States, drivers, future trends and impacts on environment and human livelihoods. In Odada, E.O. Olago, D.O., Ochola, W.O. (Eds). *Environment for Development: An Ecosystems Assessment of Lake Victoria Basin Environmental and Socio-Economic Status, Trends and Human Vulnerability*. Pp: 43 - 60. UNEP/PASS, Nairobi.
- ODADA, E.O., OLAGO, D.O., **OCHOLA, W.O.**, NTIBA, M., WANDIGA, S., GICHUKI, N. OYIEKE, H. 2005. Proceedings of the 11th World Lakes Conference (WLC):, Vol I: Ministry of Water and Irrigation/International Lake Environment Committee (ILEC) (October 2005) Nairobi.

- ODADA, E.O., OLAGO, D.O., **OCHOLA, W.O.**, NTIBA, M., WANDIGA, S., GICHUKI, N. OYIEKE, H. 2005. Proceedings of the 11th World Lakes Conference (WLC):, Vol II: Ministry of Water and Irrigation/International Lake Environment Committee (ILEC) (October 2005) Nairobi.
- OCHOLA, W.O.**, KERKIDES, P., 2004. An integrated indicator-based decision support system for land quality assessment in Kenya. *Computers and Electronics in Agriculture* 45: 3-26.
- OCHOLA, W.O.** KERKIDES, P. AYIEKO, J.O. 2004. Assessing wetland conditions in the Lake Victoria Basin of Kenya using integrated land-use and water resources integrity indicators. In Proceedings of European Water Resources Association (EWRA) conference, Izmir Turkey, 2 - 4, October 2004.
- OCHOLA, W.O.**, KERKIDES, P., ARGYROKASTRITIS, I, KOLLIAS, V., 2004. Water resources hazard management system: Spatial extension for the assessment of sustainable water use practices in Kenya. *Irrigation and Drainage*. **53**: 225-236..
- OCHOLA, W.O.**, KERKIDES, P. 2003. A markov chain simulation model for predicting the critical wet and dry spells in Kenya: analyzing rainfall events in Kano plains, *Irrigation and Drainage* 52 (4), 315-527.
- OCHOLA, W.O.**, KERKIDES, P., 2003. A Spatial Decision Support System for Water Resources Hazard Assessment: Local Level Water Resources Management with GIS in Kenya. *Journal of Geographic Information and Decision Analysis*. Vol. 7, No.1, pp 14-28.
- OCHOLA, W.O.**, KERKIDES, P., 2003. An integrated indicator-based decision support system for land quality assessment in Kenya. In K.O. Sindir, Proceedings of the International Congress on Information Technology in Agriculture, Food and Environment (ITAFE) of October 7 - 10, 2003, Ege University Press, Izmir, Turkey, pp 45-54.
- OCHOLA, W.O.**, KERKIDES, P., ARGYROKASTRITIS, I., 2003. Water Resources Hazard Management System: Spatial extension for sustainable water use practices assessment. In K.O. Sindir, Proceedings of the International Congress on Information Technology in Agriculture, Food and Environment (ITAFE) of October 7 - 10, 2003, Ege University Press, Izmir, Turkey, pp 502-511.
- OCHOLA, W.O.**, KERKIDES, P., ARGYROKASTRITIS, I., 2002a. Water quality: an indicator for sustainable land management? In Tsakiris, G. (Ed.). *Water Resources Management in the Era of Transition*. Proceedings of the 5th International Conference of European Water Resources Association (EWRA), pp 54-64.
- OCHOLA, W.O.**, KERKIDES, P., ARGYROKASTRITIS, I., 2002b. Water resources hazard management system: Assessing sustainable practices at farm and catchment levels. In Tsakiris, G. (Ed.). *Water Resources Management in the Era of Transition*. Proceedings of the 5th International Conference of European Water Resources Association (EWRA), pp 143-156.
- OCHOLA, W.O.**, KERKIDES, P., ARGYROKASTRITIS, I., 2002c. Water resources hazard management system: Assessing sustainable practices at farm and catchment levels. *Irrigation and Drainage* 51 (3), 243-256.

Manuals, Workshop Reports and Proceedings

- OCHOLA, W.O.** 2008. Monitoring and Evaluation: A Report of a Specialist Training Workshop for Design Monitoring and Evaluation Staff of World Vision, Kenya. World Vision Kenya, Nairobi.
- OCHOLA, W.O.**, MITOKO, G. 2005. Report on Gender Training of Trainers Workshop held in Mwingi (1st - 5th August 2005). AfDB- ASAL Based Livestock and Rural Livelihoods Support Programme. Ministry of Livestock and Fisheries development/African Development Bank (AfDB). Nairobi.
- OCHOLA, W.O.**, MITOKO, G. 2005. Gender Sensitization and Training Guide. AfDB- ASAL Based Livestock and Rural Livelihoods Support Programme. Ministry of Livestock and Fisheries development/African Development Bank (AfDB). Nairobi.
- OCHOLA, W.O.**, MITOKO, G. 2005. Report of Gender Sensitization Workshop held in Naivasha (27th - 29th July 2005). AfDB- ASAL Based Livestock and Rural Livelihoods Support Programme. Ministry of Livestock and Fisheries development/African Development Bank (AfDB). Nairobi.
- OCHOLA, W.O.**, CHEGE, P. 2005. Teaching Practice Management and Mentorship: Consultancy Report of Workshops Held in Amoud University, Borama - Somaliland (29th January - 3rd February 2005). Centre for British Teachers (CfBT), Nairobi.
- OCHOLA, W.O.**, MWARASOMBA, L.I., Mutoko, G. 2002. Gender Analysis and Integration for Improved Agricultural and Livestock Extension: Proceedings of Training Workshops in Kisumu, Nakuru and Embu, National Agriculture and Livestock Extension Programme (NALEP), Ministry of Agriculture and Rural Development, Nairobi - Kenya.
- OCHOLA, W.O.** 2002. Gender Integration in Agricultural Extension: A Training Guidebook. Eds. L.I. Mwarasomba & G. Mutoko. National Agriculture and Livestock Extension Programme (NALEP), Ministry of Agriculture and Rural Development, Nairobi - Kenya.

- OCHOLA, W.O., MUHIA, R.N., MWARASOMBA, L.I.** 2000. Participatory Monitoring and Evaluation for Natural Resources Management: Workshop Proceedings, National Soil and Water Conservation Programme (NSWCP), Ministry of Agriculture and Rural Development, Nairobi - Kenya.
- OCHOLA, W.O.** 2000. Gender Integration in Agricultural Extension: A Training Handbook. Eds. Lotter Nycander & L.I. Mwarasomba. National Agriculture and Livestock extension Programme (NALEP), Ministry of Agriculture and Rural Development, Nairobi - Kenya.
- OCHOLA, W.O., MWARASOMBA, L.I.** 2000. Guidelines for Agricultural Extension: Working with Luo Communities in Lake Victoria Basin in Kenya, National Soil and Water Conservation Programme (NSWCP), Ministry of Agriculture and Rural Development, Nairobi - Kenya.
- OCHOLA, W.O.** 2000. Community Sensitization for Improved Rural Livelihoods: A Consultancy Report for Yei County, Southern Sudan. CONCERN Worldwide, Nairobi. PRA PROGRAMME, EGERTON UNIVERSITY, 1999. Egerton PRA Field Handbook for Participatory Rural Appraisal Practitioners. Egerton University, Njoro - Kenya.

Research Reports

- OCHOLA W.O., WAMUKURU, D.K.** 2006. Indicators of Local Level Transformational Development: Baseline Survey Report of Laisamis Area Development Programme. World Vision - Kenya, Mount Kenya Zone.
- OCHOLA W.O., WAMUKURU, D.K.** 2006. Indicators of Local Level Transformational Development: Mid-Term Evaluation Report for Area Development Programme. World Vision - Kenya, Lake Zone - Kisumu.
- OCHOLA W.O., WAMUKURU, D.K.** 2006. Indicators of Local Level Transformational Development: Baseline Survey Report of Karemo Area Development Programme. World Vision - Kenya, Kisumu.
- OCHOLA, W.O., MUHIA, R.N. & MWARASOMBA, L.I.** 2000. *Culture, Traditions and Society: The Challenges to Natural Resource Management and Development*. A Report of a Socio-cultural Study of the Lake Victoria Region, Kenya. National Soil and Water Conservation Program, MoARD, Nairobi.

CONSULTANCIES

Regional Forum for Capacity Building of African Universities in Agricultural (RUFORUM)

Kampala, Uganda

December 2007

Facilitator Workshop to strengthen proposal writing and scientific and communication skills of academic staff of universities in East and Central Africa - Kampala, Uganda

February 2008

Facilitator Workshop to strengthen proposal writing and scientific and communication skills of academic staff of universities in Southern Africa - Lusaka, Zambia

Association for Strengthening Agricultural research n eastern and Central Africa

ASARECA, Entebbe, Uganda

2008

Facilitator - Agrobiodiversity and biotechnology proposal development for drought tolerant maize and sweet potato germplasm conservation and utilization in Eastern and Central Africa (ECA) sub-region, Kampala - Uganda

2008

Facilitator - Mega proposal for bitoehnology use in sustainable cassava production and utilization in Eastern and Central Africa (ECA) sub-region, Kampala - Uganda. Facilitated proposal development workshop and compiled the draft proposal.

2006 - 2007

Facilitator and member of the Technical Working Groups I&II (TWGI&II) for developing regional postgraduate programme in Agricultural Information and Communications Management (AICM) for the East and Central African Region

World Vision Kenya (WVK)

2006 - 2008

- ◆ Lead consultant for various programme management consultancies:
 - Baseline Survey - Karemo Area Development Programme

- Baseline Survey - Laisamis Area Development Programme
- Programme Evaluation - Lambwe Valley Area Development Programme
- Food Security feasibility Study - Kainuk Area Development Programme
- Programme Evaluation Survey - Lokori Area Development Programme
- Specialist M&E Training for DME, CCB and National Staff
- Participatory Monitoring and Evaluation (PM&E) Training

Directorate of Water Development (DWD)

Ministry of Water, Land and Environment

Kampala, Uganda

December, 2006

Institutionalization of Participatory Monitoring and Evaluation (PM&E) for the rural water and sanitation sector. Consultant and facilitator of DWD Managers sensitization workshop. Wrote a consultancy and workshop report for the task.

April, 2006

Participatory Monitoring and Evaluation (PM&E) for the rural water and sanitation sector. Consultant and facilitator of workshop and field work held in Mbarara district, Uganda.

September, 2005

Training of Trainers in WATSAN project design, Monitoring and Evaluation. Mid-Term Evaluation of Sida Funded Rural Water and Sanitation Projects in Mbarara County.

The World Bank

International Assessment of Agricultural Science and technology for development (IAASTD)

October 2005 - Present

- Collaborating Lead Author: IAASTD Global Chapter 4: Drivers of Global Food Systems
- Lead Author: Sub-Saharan Africa Report - Chapter 4: The Evolution of SSA Food Systems Towards 2050.

United Nations Environment Programme (UNEP)

Division of Environmental Policy Implementation (DEPI)

2008

- Short-term Consultancy to draft Background Paper for UNEP Side-event on Climate Change, Environment and Agriculture presented at the Sixteenth UN Commission on Sustainable Development (CSD-16) - New York.

Division of Early Warning and Assessment (DEWA)

December 2008

- Resource person and trainer Botswana national Integrated Environmental Assessment and Reporting (IEAR) Scenario module held in Gabarone April 7th - 14th 2008

December 2007

- Resource person and trainer Southern Africa Integrated Environmental Assessment and Reporting (IEAR) Scenario module held in Harare 11 - 14th December 2007

December 2004 -2007

- Facilitator and lead author in the fourth global environment outlook (GEO -4), plausible futures chapter 9. Contributing Author to Chapter 6. Report published and Launched October 2007
- Consultant, collaborating lead author for scenarios chapter and member of the second Africa Environment Outlook (AEO-2) reporting process.

September 2004 - March 2005

Under the Pan African START Secretariat (PASS), University of Nairobi steered and completed the Lake Victoria Basin Environment Outlook

ADB ASAL Based Livestock Improvement and Rural Livelihoods Support Project

Ministry of Livestock and Fisheries Development

September - November 2007

- Gender screening survey of ASAL livestock and rural livelihoods. Production of a gender training and awareness Video

June - July 2005

- Facilitator: Gender sensitization workshop of senior project staff held Gilgil, Kenya
- Facilitator: Gender ToT training of provincial and district livestock staff of the ADB project in Mwingi.
- A manual for gender integration and training was developed as part of the consultancy

National Agriculture and Livestock Extension Programme (NALEP)

May 2005

Trained Nakuru District Agriculture and Livestock extension staff on Participatory Monitoring and Evaluation (PM&E).

April 2002

Facilitated three national workshops on Gender Analysis and Gender Sensitive technology for Improved Agricultural and Livestock Extension.

2002

Produced a Training Guidebook: "Gender Integration in Agricultural and Livestock extension". Book edited by G. Mitoko and L.I. Mwarasomba of NALEP head office.

National Soil and Water Conservation Programme (NSWCP)

Ministry of Agriculture and Rural Development

October 1999

Participatory monitoring and evaluation (PM&E) training of trainers' and facilitators' (ToT/ToF) workshop. The objective of the workshop was to build a core capacity for PM&E within the programme.

May and October 1998

Facilitation of separate national workshops on participatory rural appraisal (PRA) for trainers. The workshops were conducted in Embu (for high potential districts) and Wajir (for Arid and Semi-arid Lands - ASAL. *Other workshops Facilitated for the NSWCP*

- Collaboration workshop in Isiolo (1999)
- Local level initiative workshop in Chuka

June - July, 1999

Principle Consultant/Researcher, Sida funded "Socio cultural study of Lake Victoria basin, Kenya": Report - *Culture, traditions and Society: Challenges to Natural Resources Management and Development.*

Centre for British Teachers (CfBT)

January - February, 2005

Consultant/trainer for the Strengthening of Teacher Education in the Public Sector of Somalia (STEPS) project by DANIDA and the European Union and implemented by CfBT. The assignment involved facilitating two workshops at Amoud University, Borama, Borama, Somaliland.

April, 2005

Consultant and an external examiner for Amoud University TP exercise under CfBT.

Concern International

April 2000

Consultant for Concern International Nairobi. Facilitated community development planning workshops through mobilization and participatory needs assessment and agricultural and livelihood planning for farming communities in Yei County, Southern Sudan.

African Education Trust (AET) - Nairobi

2007

Medium Term Consultant - Development and Review of Secondary School Agriculture Curriculum for Puntland, Somalia

MEMBERSHIP OF PROFESSIONAL ASSOCIATIONS

- ◆ Member International Forum for Assessment of Sustainable Agriculture (INFASA) of the International Institute of Sustainable Development (IISD) - Canada
- ◆ Member the International Association of Agricultural Education and Extension (IAAEE)
- ◆ Member Africa Environmental Information Network (EIN)
- ◆ Member, International Association of Agricultural Information Experts (IAAIE)
- ◆ Member, Scientific Steering Committee (SSC) of the African Network of Earth Sciences (AfricanNESS)
- ◆ Member, Kenya Institute of Management

SKILLS

- ◆ Proposal writing
- ◆ Advance computer skills (programming, data analysis and statistical packages, Geographical Information Systems, Agricultural Expert Systems, Decision Support Systems)
- ◆ Advanced working knowledge of word processing, spreadsheets, databases, presentation with MS Office suite
- ◆ Advanced knowledge of statistical analysis with several computer packages including SPSS, SAS, GENSTAT, MINITAB, STATGRAPH and MSTAT
- ◆ Computer Programming with Object Oriented Languages and MS Visual Basic Application (VBA)
- ◆ Advanced knowledge of Geographical Information Systems with ESRI packages (ArcGIS complete package - ArcView, ArcMap, ArcInfo, ArcIMS) and Remote Sensing
- ◆ Internet Use and Web design and maintenance.
- ◆ Application of Web 2.0 Technologies
- ◆ Computer hardware and network (LAN) assembly and maintenance.