

CURRICULUM-VITAE

PERSONAL PARTICULARS:

Name: PROF. MOCHOGE BENSON EVANS
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E-mail: bmochoge@hotmail.com
Nairobi-Kenya.
Date of Birth: 9th September 1947
Marital Status: Married
Gender: Male
Nationality: Kenyan
Profession: Agronomist-Soil Scientist

PROFESSIONAL EXPERTISE:

- Designing and Implementation of Research experiments
- Monitoring and Evaluation of Projects
- Teaching and Training Agricultural Experts
- Interpretation of Fertilizer Trial Results
- Fertilizer use recommendations/management
- Specialist in Nitrogen Dynamics in Tropical Ecosystems
- Soil fertility/productivity evaluations
- Soil Environmental Evaluations (pollution and bio-degradation)
- Irrigation and soil management
- Soil testing and plant analysis
- Coordination and implementation of programmes / projects
- Negotiation Skills on Natural Resources conflicts and Resource Mobilisation
- Dry-land Natural Resources management

EDUCATION:

1955-1959: Lower Primary School at Gionseri S.D.A. School,
1960-1963: Upper Primary School at Gionseri D.E.B. School
1964-1967: Secondary School Certificate (O'Level) at Kisii High School
1968-1969: Advanced School Certificate (A'Level) at Kisii High School
July 71-June 74 B.Sc.Agriculture at National Agricultural College Deventer, the
Netherlands.
Oct. 75-March 76: German Language Course in Bochum W. Germany.
April 76-Sept. 77: M.Sc. Agronomy at Georg Augustus University of Goettingen, W.
Germany.
Nov. 77-Feb. 81 Dr. Sc. Agric (Ph.D) at Institute of Soil Science and Forest Nutrition,
University of Goettingen, W. Germany.
April, 81-Sept. 82: Part-time Studies in Rural Development and Silviculture at the Institute
of Rural Development, University of Goettingen W. Germany.

Oct. 81-March 82: Postgraduate Diploma Course on Higher Education and International Development at Witzenhausen, University of Kassel, W. Germany.

ACADEMIC QUALIFICATIONS:

B.Sc Agriculture (June, 1974)

Subjects: Crop Production, Plant Diseases, Irrigation and Drainage, Economics, Agricultural Engineering, Soil Science, Plant Nutrition Agricultural, Extension and Animal Production.

Special Course: Soil Survey and Soil Management.

M.Sc Agronomy (Dipl. Ing. Agra.) (October 1977)

Subjects: Temperate Agronomy, Agricultural Chemistry, Soil Science, Plant Diseases, Microbiology and Tropical Crop production.

Thesis: The total Nitrogen content in the soils of humid tropics and semi-arid areas.

Dr. Sc. Agric. (Ph.D) (Feb. 1981)

Subjects: Soil science(Major) ; Agricultural Chemistry and Tropical Agronomy (minors).

Thesis: The Behaviour of Nitrogen Fertilizers in Neutral and acid loess soils.

Post Doctoral studies (Nov. 1982)

Effects of acid rain on nitrogen dynamics in forest soils of Solling, West German. University of Goettingen, Soil Science and Forest Nutrition Department, 1981 - 1982.

Dip. H. Education and International Development (March, 1982)

Subjects: University Research, University teaching, Planning and administration of University, Role of the University in International Development, Communication and Co-operation, and Team Work and Team Management.

Special Study: Small- Scale Farming in Kenya in relation to large scale farming and its economic impact.

CREDENTIALS and PROFESSIONAL SPECIAL TRAININGS:

1. Diploma Course on higher education and international development.
2. Part-time Studies on Rural Development and Silviculture, University of Goettingen, 1981-82.
3. Post doctoral Research on pollution- effect of acid rain on nutrients dynamics in soil ecosystem.
4. International Training Programme on plant nutrients Management for Sustainable Agriculture. IFDC - Nairobi, Oct. 14-19, 1996.
5. Advanced international course on Irrigation and Soil Management. AROVolcani

- Centre, Mashav, Israel Oct.7-Dec.2, 1997. (postgraduate certificate).
6. Conflict Management Resolution, on emphasis in the Great Horn of Africa (GHA), Djibouti, April 1999.
 7. Strategic Gender Awareness Training, February, 2000 - Djibouti.
 8. Project Management and Evaluation and Advanced Project Monitoring and Evaluation. Management Training and Development Course Institute, Washington D.C.30th August-11th September, 2000.
 9. Negotiation Skills for Natural Resource Use Conflicts Resolution and Resource. Mobilization Training course held in Nairobi, Kenya 14-24 Sept, 2004.

SPECIAL AWARDS

- The Netherlands Fellowship Program for Technical Cooperation (1971- 1974).
- Ecumenical Scholarship Program (OSW) West Germany (1975 - 1981).
- Federal Ministry for Economic Cooperation, West Germany (1981/1982).
- State of Israel-Ministry of Foreign Affairs and International Cooperation (MASHAV) 1997.

Computer skills: Word processing, database management and networking

EMPLOYMENT AND EXPERIENCE:

Jan. 1970-Sept. 1970: Teacher at Nyamache Secondary School, Kisii.
 Jan. 1971-June, 1971: Clerical Officer Attorney General's Chambers, Nairobi.
 Sept. 1974-Sept.1975: Agricultural Extension Officer, Pyrethrum Board of Kenya,Nakuru.
 March 1981-Nov.1982: Scientific Co-worker at the Institute of Soil Science and Forest Nutrition, University of Goettingen, W. Germany.

Duties:

- a) Post Doctoral Research work on acid rain and Nitrogen Dynamics in acid forest soils of Solling, W. Germany.
- b) Handling practical teaching in Soil Biology to M.Sc. and other post Graduate Students.

Dec. 1982-Oct. 1985: Lecturer, Department of Soil Science University of Nairobi
 Nov. 1985-Oct.1992: Senior Lecturer, Department of Soil Science, and University of Nairobi.
 Dec. 1987 -June 1992: Monitoring and Training officer, Fertilizer Use Recommendation Project (FURP) with German Agricultural Team, Kenya - GTZ project.
 May 1995- 1996: Director, Road Safety Network.
 Oct.1995-1998: Director, International Centre for Environment, Social and Policy Studies.
 Dec.1995 - May, 1999: Associate professor in Soil fertility and Soil Biology at Egerton University, Department of Agronomy.
 Feb.1999-September, 2007 Director of Agriculture and Environment with Inter-governmental Authority on Development (IGAD).
 Sept.2008 - Professor at Kenyatta University,Department of Agricultural Resources Management

RELEVANT WORK EXPERIENCE

GTZ Fertilizer expert as Monitoring and Training Officer (Dec.1987-June, 1992)

Duties:

- Organizing and Supervising the Collection and Analysis of Data (Agronomic, Soil and Climatic).
- Monitoring the completeness of Data in Technical files.
- and Executing the Training Curricular of Technical Assistants and Area Coordinators in the project (Induction Courses).
- Organizing and Implementing Evaluation Workshops.
- Providing Backstopping of project issues related to soil and Water Management.
- Assisting in the Supervision of Trial Sites.
- Developing and Implementing a System of Recording and Evaluating of Non-Treatment Factors.
- Compiling, Evaluating and Writing up the Final Report by Synthesizing Agronomic, Soil and Agroclimatological Data.

Achievements:

1. Formulated a Blue-print booklet for the recommendations of fertilizer use which are site and crop-specific in the rain-fed areas of Kenya.
2. Established On-Farm Trials
3. Integrated Research and Extension on the On-Farm Trials

Director of Agriculture and Environment with IGAD(Feb.1999-Sept.2007)

IGAD is a Sub-Regional Economic Community (REC) in the Horn of Africa comprising of the countries of Djibouti, Eritrea, Ethiopia, Kenya, Somalia, Sudan and Uganda.

Duties and responsibilities :

- Responsible for co-ordination of agricultural and environmental protection policies as well as data on productivity; marketing and agro-industries in the sub-region; identifying the fields of agriculture, environment and energy with a view to promoting information sharing among the member states, and developing sub-regional programmes in agriculture and environment.
Specific TORs:
- Harmonization of agricultural development, food security, natural resources environmental protection and energy policies.
- Ensure co-ordination of member states agricultural research programmes, early warning food information systems and their developments.
- Co-ordination of the collection and analysis of data on productivity, marketing and agro-industries in the sub-region for policy co-ordination and harmonizations.
- Identification of areas of excellence in the fields of agriculture, environment and energy and promote sharing of such experiences among member states.

- Development of sub-regional programmes and projects in areas of natural resources, energy, food security and environmental protection as well as identifying possible sources of finance.
- Responsible for co-ordination and direction of the activities of all staff in the Division of Agriculture and Environment.
- Responsible for advising the Executive Secretary on matters pertaining to agriculture, food security, environment, natural resources and energy.

Achievements:

1. Established Sub-Regional Networks in the areas: Market Information System; Alternative Household-Energy; meteorological Services through Remote Sensing Applications
2. Established Sub-Regional Steering Committees on Food Security, Meteorological-Hydrological Services and UNCCD Programmes
3. Strengthened Sub-Regional Centres of Excellency, e.g. ICPAC formerly Drought Monitoring Centre (DMC) Nairobi
4. Strengthened working relations with other Agencies such as UN Organizations (FAO, UNEP, UNCCD/GM, WMO, WFP, WB,) ADB, CIDA, EU/EC, French Cooperation, GTZ, USAID, AU/IBAR, OSS through partnerships and Resources Mobilization
5. Mobilised Resources for projects formulation and Implementation
6. Initiated, formulated and implemented projects in Food Security, Energy, Environmental Protection, Early Warning System, Market information System, water Resources Management (HYCOS) and water harvesting project in the Karamoja cluster
7. Strengthened capacity building of specific/specialized areas, e.g. MIS, Negotiation Skills in Natural Resources Conflicts
8. Organized and conducted many workshops, seminars and trainings for strengthening the capacities of IGAD Region
9. Chaired many Regional and International committees and Networks

TEACHING AND RESEARCH EXPERIENCE (1982-1999)

(a) Teaching:

Undergraduate Courses

Soil Chemistry, Soil fertility ,Microbiological degradation and Transformation in Soils ,Irrigation and Drainage, Soil microbiology, East African Agriculture, Soil physics, General soil management and Introduction to soil science

Post-graduate Courses

Soil fertility and plant Nutrition , Soil Microbiology and Biochemistry , Soil Testing and Plant Analyses , Irrigation and Water Management ,Soil Physics , land and soil management

Post - Graduate Thesis Supervision

Awarded M.Sc Thesis

1. The effects of Cultivation upon some Physical and Chemical properties of three Kenyan Soils (Mwonga, S. 1988).
2. The Effect of Nitrogen Source and Rates on Nitrate and Thiocyanate Contents of Kale (*Brassica Oleracea* Var. *acephala* DC) leaves. (Kanampiu, F.K. 1988).
3. Effects of Nitrogen Fertilization and Storage condition and period on Nitrate Concentration of Kale (*Brassica Oleracea* Var. *acephala* DC). *acephala* (Abukutsa, M.O., 1988).
4. Plant Nutrient Aspects of Mulching in Alley Cropping Trials as affected by Micro -Climatological Factors in the Semi-arid Areas of Machakos District, Kenya. (Njiru, D.M., 1991).
5. Nitrogen Forms in Soils and Effect of Salts on Nitrogen Mineralization (Karuku, G.N., 1991).
6. Nitrogen Mineralization in Soils and its Effect on Maize (*Zea mays* L. Katumani Composite B) Growth and Yield (Odhiambo J.J., 1990).
7. Soil Loss and Effect on Soil Productivity (Tong'i, N.R.E., 1992).
8. Effect of *Leucaena Leucophala*, *Cassia Siamea* and *Terminalia brownii* leaf mulch on Maize performance and Soil Nutrients under Semi-arid conditions in Machakos, Kenya (Mwangi, W.P., 1991)
9. Effect of chickpea residue incorporation on soil nutrient status and wheat grain yield in a chickpea - wheat rotation" (Onwonga, R N.,1998)
10. Effect of chickpea (*Cicer arietum*) and beans (*Phaseolus vulgaris*) on wheat yields and soil fertility in a legume-wheat cropping sequence. (Guto, S.N.,1998)
11. Effect of lime, Manure, N P application on soil microbial biomass, N and P availability and Maize yield in an acid soil of Molo (Lelei J.J, 1999).
12. Effect of Rhizobium and Mycorrhiza strains on soyabean yields in Meru district (Ndivo S. 2000).

Awarded Ph.d Thesis

Effect of indigenous soil and water conservation techniques on soil physical properties and crop performance in Tharaka-Nthi district, Kenya (Wakindiki 2003)

PUBLICATIONS:

Thesis:

1. Mochoge, B.O. 1977. The Total Nitrogen Content in Soils of Humid Tropics and Semi-arid Areas. M.Sc. Thesis, University of Goettingen, W. Germany (unpublished).
2. Mochoge B.O. 1981. The behaviour of Nitrogen Fertilizers in Neutral and Acid Loess Soils. Ph.D. Thesis, University of Goettingen, W. Germany (published).

Papers in refereed Journals:

1. Mochoge, B.O. and Beese, F. 1982 Der Umsatz von N-Dunger in Sauren and Neutralen loess-oberboden. Mitteilung Deutsche Boden Kund1. Gessellsch. Band 32:447-450.
2. Mochoge, B.O. and Beese, F., 1983. The behaviour of Nitrogen Fertilizers in two loess derived Soils. 1. Transport and Transformations of Nitrogen. Zeitschrift fuer Pflanzen-ernaehrung Bodenk. 146:86-100.

3. Mochoge, B.O. and Beese F., 1983. The behaviour of Nitrogen fertilizers in two loess derived soils II. N-distribution and balances in Soils. *Z. fuer Pflanzenernaehrung Bodenk.* 146:504-515.
4. Mochoge, B.O. 1984. Simulation of Nitrogen movement in undisturbed Soil columns. *Agriculture, Ecosystems and Environment* 11:105-115.
5. Mochoge, B.O. and Beese, F., 1985. Effects of Temperature, depth and Soil Manipulation. on Nitrogen Mineralization and Nitrification. Soil Fertilizer, Soil tilth, and Post Clearing land degradation in the Humid tropics. *Proceedings ISSS (Commission IV and VI) PP 148-160 PP.*
6. Mochoge, B.O. and Beese F., 1986. Leaching of plant Nutrients from an acid forest Soil after Nitrogen fertilizers application. *Plant and Soil* 91:17-29.
7. Mochoge, B.O. and Beese F. 1986. Effect of cultivation on organic carbon, nitrogen and phosphorus changes in some Kenyan red soils. In: *The red soils of East and Southern Africa pp 296-302 proceedings of an international symposium. Harare, Zimbabwe 24-27 Feb. 1986.*
8. Mwonga, S. and Mochoge, B.O. 1986. The effects of cultivation on some physical and chemical properties of three Kenyan soils. In: *Soil and Water Conservation In Kenya. Proceedings of 3rd national workshop Kabete,*
9. Mochoge, B.O. 1987. Nitrogen levels in a nitisol as influenced by rainfall and maize crop. *Proceedings of 1st Technical conference on meteorological Research in E. Africa Nairobi, Kenya. pp. 228-231.Nairobi.*
10. Mochoge, and Mwonga S.M 1988. The effects of tillage on organic carbon and other physical and chemical properties of a semi-arid soil in Kenya. In:- *Challenges in Dryland Agriculture -a global perspective pp. 382-384 proceedings of international conference on Dryland Farming, Bushland, Amarillo, Texas USA.*
11. Mochoge, 1989. the effect of added nitrogen fertilizers on the transformation and transport of nitrogen through undisturbed soil columns of a chromic-luvisol. *E. Afri. agric. for J. vol. 54 (4) 223-231.*
12. Karuku, G.N and Mochoge, B.O. 1990. Organic carbon fractions in three Kenyan soils (andosol, luvisol and ferralsol). Paper presented at the 10th AGM of SSSEA Arusha, Tanzania.
13. Tong'i, E.R.N. and Mochoge, B.O. 1990. Erodibility studies on three Kenyan soils using rainfall simulator. Paper presented at the AGM of SSSEA Arusha, Tanzania.
14. Mochoge, B.O. and Mwonga S.M. 1991. Effect of continuous land use on aggregate stability and other related Soil properties in three soil types of Kenya. *Innovations &Discovery Journ.* 3.77-83.
15. Mochoge, B.O. 1992. Fertilizer Trial Results of maize and maize-bean intercrop trials in Kenya. *Proceedings of a working group meeting ,Thika Kenya 1-4 September, 1992. CIAT Africa workshop series no.21 pp.59-78.*
16. Tong'i E.R.N and Mochoge, B.O. 1992. The influence of cropping systems on soil and water loss through erosion and runoff from three Kenyan soils. Paper presented at the 3rd KARI scientific conference, Nairobi, Kenya.
17. Mochoge, B.O. and Mwonga, S.M.,1992. The effect of continuous land use on aggregate stability and organic carbon for three soil types in Kenya. In *Erosion, Conservation and Small - scale Farming(Eds) Hurni, H. and Kebede Tato. Geographica Bernensia. International soil conservation organization(ISCO). World Association of soil and soil conservation (pp 253-261).*
18. Abukutsa,M.O, Chweya,J.A,Mochoge, B.O and Onyango J.O, 1993: Effect of

- Nitrogen Sources and Storage on Thiocyanate Content of Kale [*Brassica oleracea* var. *Acephala*] leaves. *Discovery and Innovation* Vol.5 No.4.PP 367-371.
19. Tongi, E.R.N. and B.O. Mochoge, 1993. Erodibility of three Kenyan soils as determined from a rainfall simulator. *E. Afr. Agric. For J.* 58(4) 169-174.
 20. Mugendi, D.N., Mochoge, B.O, Coulson, C.L and Stigter, C.J., 1994. Decomposition of *Cassia Siamea* loppings in Semiarid Machakos, Kenya. *Arid Soil Research and Rehabilitation* 8:363-372.
 21. Abukutsa, M.D., J.A Chweya, B.O. Mochoge and J.C. Onyango, 1994. Effect of nitrogen sources and storage method on nitrate content of Kale (*Brassica oleracea* Var. *Acephala* DC). *E. Afri. Agric. For.J.*60 (i) (35-40).
 22. Mugendi, D.N.; B.O. Mochoge; C.L. Coulson; C.J. Stigter and F.K. Sang. 1997. Effect of incorporating *cassia siamea* prunnings on maize yield in an alley cropping trial in semi -arid, Kenya. *African crop science journal* Vol.5 No.2,pp201-207.
 23. Mochoge, B.O., Kanyanjua, S. and Obanyi, S. 1997. Response of maize, maize-cowpea intercrop and pigeonpea to N and P fertilizers and farmyard manure. In: *African Crop Science Conference Proceedings*. Vol.3 pp439-448. Printed in Uganda.
 24. Wakindiki, I.C.; Mochoge, B.E.; Meni Ben-Hur and Runguma, D. 1998. Social Cultural and Economic aspects of indigenous soil and water conservation in the Semi-arid Tharaka, Kenya. *International Symposium on Arid Region Soil, International Agro-hydrology Research and Training Centre, Menemen-izmir-Turkey* pp 426-431.
 25. Kamau, P.A., and Mochoge, B.O. 1998. Effect of antecedent moisture content and organic waste amendment on the stability of microaggregates of some Kenyan soils. *E. Afri. Agric. For.J.*Vol.62 No. 4.
 26. Mochoge, B.O. and Onwonga, R.N. The effect of cowpea intercrop on maize yield and use efficiency in coastal lowlands and semi-arid parts of Kenya. Paper presented at the 6th Regional Maize Workshop for Eastern and Southern Africa. *Increased and Sustainable Production of Maize in Africa: Challenges and Opportunities*.21-25 September, 1998.
 27. Lelei,J.J; B.O.Mochoge and R.N Onwonga,2000.Effect of lime, urea and triple superphosphate on nitrogen and phosphorus mineralization in an acid soil during incubation.*African Crop Science Journal*,Vol.6,No.3.pp327-336.
 28. Wakindiki I.C.,S.M.Kinyali, B.E.Mochoge and S.K.Tirop ,2001.Influence of some soil physical properties on infiltration rate and hydraulic conductivity of 3 salt affected soils in Kenya .*East African Agricultural and Forestry Journal*.67:115-120.
 29. Wakindiki,I.I.C.,B.E.Mochoge and M.Ben-Hur,2001.Technical note on local adaptations to soil erosion and low soil moisture in Tharaka district, Kenya.*Tanzania Journal of Agricultural Sciences*1:75-80
 30. Isaiah I.C. Wakindiki, B.O.Mochoge and Meni Ben-Hur,2007.Assessment of indigenous soil and water conservation technology for smallholder farms in semi-arid areas in Africa and close spaced trash lines effect on erosion and crop yield. In A.Bationo (eds),*Advances in Integrated Soil Fertility Research in Sub-Saharan Africa: Challenges and Opportunities*,805-814 @2007 Springer.

Papers Presented in Conferences and Workshops

1. Beese, F. and Mochoge, B.O. 1982. Ein modell zum N-Umsatz and N-umsatz and N-transport in Boden. Paper presented at a symposium of soil science society of W. Germany March, 1992 Giessen, W. Germany.
2. Mochoge, B.O., Brumme, R. and Beese, F. 1983. Netto mineralization in Waldboden. Einfluss von Bestimmung. Paper presented at the Soil S. Society of W. Germany Sept. 1983 Trier, W. Germany.
3. Mochoge, B.O. and Nandwa S.M. 1988. Fertilizer Use and food crops response to nutrients in humid tropics. Kenyan experience. Paper presented at 1st crop science society of Kenya Symposium. Nairobi Kenya.
4. Abukutsa, M.O., Chweya J.A. and Mochoge B.O. 1988. Effect of nitrogen sources and storage on nitrate content in kale leaves. Paper presented at the 1st crop Science Society of Kenya symposium Nairobi, Kenya.
5. Kanampiu, F.K., Chweya, J.A and Mochoge. B.O. Effects of rates and sources of nitrogen on leaf production and nitrate accumulation in Brassica oleracea var. acephala DC. paper presented at the 1st crop Science Society of Kenya Symposium, Nairobi, Kenya.
6. Kanampiu, F.K., Mochoge, B.O. and Chweya, J.A 1989. relationship between soil NO₃-N accumulation vegetable leaves on kale and collards (Brassica oleracea var. acephala a DC). proper presented at the 9th AGM of SSSEA Kisumu, Kenya.
7. Odhiambo, J.J.O and Mochoge, B.O. 1989. Effects of nitrogen availability and moisture content in soil on maize yield. Paper presented at 9th AGM of SSSEA Kisumu, Kisumu.
8. Tong'i G.N and Mochoge, B.O. 1989. Soil productivity loss of Kabete nitisol, Kenya. Paper presented at the 9th AGM of SSSEA Kisumu, Kenya.
9. Mochoge, B.O. 1990. The behaviour of nitrogen mineralization and its availability for plant use in an acid soil. Paper presented at the 10th AGM Arusha, Tanzania.
10. Tong'i and Mochoge, B.O. 1991. Soil; and water loss through erosion from three Kenyan soils. Paper presented at the international conference on denudation processes and land use in tropical regions Nairobi, Kenya.
11. Tong'i E.R.N and Mochoge. B.O. 1991. Response of finger millet to fertilizer application under different soil types and AEZs. Paper presented at the 11th AGM of SSSEA Kampala, Uganda.
12. Mochoge, B.O. and Tong'i E.R.N, 1991. The effect of Farmyard manure on yields of food crops in a fertilizer experiment on a humic nitisol of Kisii, Kenya. paper presented at the 11th AGM of the SSSEA Kampala Uganda.
13. Karuku, G.N. and Mochoge, B.O. 1991 Comparison of treatment effects (lime, nitrogen and phosphorus salts) on nitrogen mineralization in three Kenyan soils. Paper presented at the 11th AGM of the SSSEA Kampala, Uganda.
14. Mochoge, B.O. and S.M. Nandwa, 1993. N-P fertilizer trials on maize and

- effect of cowpeas intercrop on maize yield at the Coastal lowlands of Kenya. Paper presented at the first conference of crop science for Eastern and Southern Africa, 14 - 18 June, 1993, Kampala Uganda.
15. Mochoge, B.O. and Mwangi, W.P., 1995. The effects of leaf mulches on maize performance and soil fertility in Semi-Arid region of Kenya. Paper presented at second International Crop Science Conference. Blantyre, Malawi 19-24 February, 1995.
 16. Njoka, E.M. and Mochoge, B.O. 1997. Sustainable environment and production resources for high quality Arabica coffee. Paper presented at the International Scientific Coffee Conference, Nairobi. 20-25 July, 1997.
 17. Mochoge, B.O. 1997. Effect of N fertilizer application in the tropical Africa as influenced by manure and water stress. Irrigation and Soil Management Course, Seminar. Israel 20-30th Nov.1997.
 18. Mochoge, B and Zziwa, Samuel, 2004. Agricultural and food security challenges in the IGAD countries: paper presented at NEPAD-IGAD conference on Agricultural Successes in the Greater Horn of Africa, Nairobi, Kenya 22-25 November 2004.
 19. Mochoge, B and Zziwa, S, 2007: Food Security in the IGAD Region. Paper presented at the Continental food Security EC Seminar in Nairobi, Kenya, 12-16 March, 2007.

REPORTS:

1. Mochoge, B.O. 1981. The behaviour of nitrogen fertilizers in neutral and acid loess Goettingen Bodenkdliche Berichte 69, University of Goettingen W. Germany.
2. Mochoge, B.O. 1982 Small scale farming in Kenya. Technical paper, University of Kassel. Witzenhansen, W. Germany (also with IDS, Nairobi).
- 3 Mochoge, B.O 1985 ,
 - I. Agricultural and Livestock situation in Kwale District.
 - II. Fishing, Hunting and gathering in Kwale District. Social cultural reports. Institute of African studies university of Nairobi
4. Mochoge, B.O Buruchara, R.A and Waithaka, K. 1988. preliminary investigation and recommendations on macadamia development in Rift valley and Western Kenya. Consultancy report to Kenya Nut Company.
5. Mochoge, B.O and others 1992. Fertilizer Use Recommendation project. Final report of Phase II, Vols I-V. KARI/GTZ, Nairobi.
6. Rainfall vs Maize yield. Maize performance studies in Kenya CORAT Africa (April/May 1992).
7. Mochoge, B.O. 1993. Report on the verification of the crop production system zones (CPSZs) in Kenya. Consultant report for FAO - IGADD, phase 1 May, 1993.
8. Mochoge, B.O. 1993. Report on agronomic information on major food crops pertinent to pre-defined crop production system zones and livestock production in each CPSZ in Kenya. Consultant report for FAO -IGADD, phase II, August, 1993.
9. Mochoge B.O. and others 1993. Evaluation of revolving funds and feasibility

- study on establishing a small scale business enterprise program with CPK Diocese of Kirinyaga.(CORAT AFRICA - NAIROBI).
10. Evaluation of schools Approach Program on soil and water conservation teaching in primary, secondary and colleges as a means of instilling conservation knowledge to the youth in Kenya. Ministry of Agriculture, Livestock Development and Marketing/SIDA (Sponsor) [Sept - Dec.1994].
 11. Feasibility study on Sisal production for quality fibre and marketing development of sisal products and its availability for pulp paper production in Kenya (Nov.- Dec., 1994)- IFAD/CFC.

PARTICIPATION IN WORKSHOPS, CONFERENCES, SEMINARS:

Participated over 140 International and local Conferences/Workshops / Seminars in 22 countries

SERVICES:

(a) UNIVERSITY SERVICE

University of Nairobi

- a) Member of examination sub-committee Faculty of Agriculture (up to Nov. 1987.)
- b) Member of Farm Practice Committee, Faculty of Agriculture (1986 -1987).
- c) Member of Research Committee, Faculty of Agriculture (1985-1987)
- d) Examination Results Compiler, Dept. of Soil Science (1985-1987).
- e) Member of Machanga Task Force (1987).
- f) Member of Field Station Committee (1984-1987).

Egerton University

- a) Chairman, Department of Agronomy, 1996 to 1998
- b) Chairman, Research Committee, Faculty of Agriculture and Department of Agronomy.
- c) Member of Management Committee, Faculty of Agriculture
- d) Member Postgraduate Committee, Faculty of Agriculture
- e) Chairman Postgraduate Committee, Department of Agronomy
- f) Committee Member of Profit Centre, Egerton University
- g) Member of Senate, Egerton University
- h) Chairman Curriculum Committee, Agronomy Department, 1998
- i) Chairman Curriculum Committee, Soil Science Department, 1998
- J) Member Research and Extension Committee, Soil Science Department, 1998
- K) Member Postgraduate Committee, Soil Science Department, 1998

Chairman of Agronomy Department University of Egerton

As Chairman of the Department I coordinated all the activities of the department, supervised and gave direction to both academic (27) and technical(35) staff and other workers (72) in the department, developed post graduate programmes and conducted Ph.D and M.Sc courses ;attended senate meetings and performed other administrative duties.

(B) NATIONAL LEVEL

- I. Consultant, Kenya National Examination Council.
- II. Member of National Fertilizer Development Committee, Ministry of Agriculture.

Research Projects:

- i) Nitrogen Dynamics in Kenya Soils
 - Transformations and Transport of N- Fertilizers
 - N-balances in soil using N¹⁵.
 - Cultivation and its Effect on Soil Fertility (Soil Degradation).
 - Nitrogen Changes in Arable Soils (Grant from GTZ and Germany Research Foundation).
- ii) Effects of alternate cycles of dry and wet conditions on Nitrogen transformations in Soils: Microbial Activities and Available Nitrogen (Deans Committee Grant).
- iii) Mineralization of soil Organic Matter in Soils under different Soil Management (NCST Grant).
- iv) Investigation of Nitrate and Nitrite Accumulation in some Common Vegetables - Collaborative Research with Dr. Chweya Crops Department (Deans Committee Grant).
- v) Soil Erosion in Kitui and Taita Hills. A Collaborative Research Program with Prof. Sponemann, Institute of Geography, university of Goettingen, W. Germany (Volkswagen Foundation Grant.)
- vi) Agro-forestry and its effects on Soil Fertility. A Collaborative Research Program with Prof. Stigter, University of Wageningen, the Netherlands, TTMI Program (EEC Grant).
- vii) Fertilizer Trial Studies in Kenya -EEC-GTZ Kenya Government Project under KARI (EEC, GTZ and GOK Grants).
- viii) Effect of Chickpea-wheat rotation on wheat yield and soil productivity (19-045). US-Israel-Kenya Cooperative Development Research (CRD) program (1998) - currently run by Dr. Wakindiki , Egerton

MEMBERSHIP (ORGANIZATIONS):

- i) Member of Agricultural Engineers, The Netherlands (AEN)
- ii) Member of Soil Science Society of Germany (BGD)

- iii) Member of Soil Science Society of E. Africa (SSSEA)(Vice-President 1991-92)
- iv) Member of International Soil Science Society (ISSS)
- v) Member of Crop Science Society of Kenya (CSSK)
- vi) Member of International Soil Tillage and Research Organization (ISTRO)Board member of INADES Formation Kenya (IFK)
- viii) Member of Crop Science Society of Africa (CSSA)(Vice - Chairman 1993-95)
- ix) Advisory Council Member of Institutional Strengthening Grants Management Project (ISGM) with USAID/REDSO in the Great Horn of Africa (GHA).
- x) Member of New York Academy of Sciences

EXTERNAL EXAMINER:

- 1) University of Malawi, Bunda Agricultural College (1986-1988).
- 2) Agronomy Department, University of Egerton (1987-1989).
- 3) University of Nairobi, Ph.D. Thesis on Coffee, Legume, and Crop intercropping 1997
- 4) Bukura Institute of Agriculture (1997-)
- 5) Moi University, Faculty of Agriculture, Chepkolel campus (1998-)

EDITING:

- 1. Thomas, D.B, Biamah, E.K., Kilewe, A.M. Lundgren, L and Mochoge, B.O. 1989. Soil and water conservation in Kenya. Proceedings of the 3rd National workshop. 16-19 September, 1986, Kabete Nairobi. Department of Agricultural Engineering, University of Nairobi and Swedish International Development Authority (SIDA) Nairobi, Kenya.
- 2. Mochoge, B.O. Njihia, C.M., Qureshi, J.N and Ayaga G.O. 1991. Editors of Appropriate soil and water Resource management in Agricultural production. SSSEA proceedings of 9th AGM Kisumu Kenya 6-10th August, 1989

OTHER PROFESSIONAL CONTRIBUTION:

- Vice-Chairman, Soil Science Society of E. Africa (1991 - 1992)
- Vice-President African Crop Science Society (1993 - 1994)
- Regional Representative African Crop Science Society (1995 - 1997)

OTHER SERVICES TO THE NATION:

- District Socio-cultural surveys, Kwale Kenya (1985)
- Fertilizer Trials in Kenya (1987-92)

- Establishment of Small Scale Enterprise Program for Anglican Church Diocese of Kirinyaga (1993)
- Soil and Water Conservation Approach Programs in Schools Consultant with SIDA-GOK (Sept-Dec. 1994)
- Sisal production for quality fiber and its availability for pulp and paper production in Kenya (IFAD).

COMMUNITY AND CHURCH RESPONSIBILITIES:

- Education chairman in Bobasi Location 1983-1985
- Church Deacon, Nairobi Central S.D.A church 1983-1984
- Church Treasurer, Nairobi Central S.D.A church 1985-1995
- Director of Research, Planning and Development Road Safety Network, 1995
- Director, International Centre for Environment, Social and policy Studies (ICESPS), Nairobi, Kenya.1995-1998
- Church Elder, Nairobi Central S.DA Church 1996-1999.
- Patron to SDA students at Nairobi Univ. Kabete Campus and Egerton University.(1984-1999)
- Patron SDA Group in Djibouti(2000-2007)

PUBLIC LECTURES:

- Fertilizer use recommendations - Field Days and Seminars countrywide - Kenya (1987-1993).
- Evaluation and Monitoring Package in Rural Development Projects(1994).
- Effects of Maize Marketing Liberalization on the Vulnerable groups in Kenya- Critique (1994)
- Causes of Land degradation and Rehabilitation Measures(1997)
- Dryland management in the IGAD region (2003)
- Waterharvesting project in the IGAD region-Karamoja Cluster case (2005)

LANGUAGES:

- 1 Mother tongue: Kisii
- 2 Other languages: Kiswahili (written and fluent verbally), English (written and fluent/full working knowledge), German (written and minimal working knowledge), French (learning).

Prof. Benson.E. Mochoge

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