

**Name:** Peter Okoth

**Position Title:** Project Information Manager

**Appointment Date:** 1<sup>st</sup> November 2003

**Specialty Area:** Production Ecologist (Soil Science and Soil Erosion) and Geographic Information Systems

**Current time allocation:** 100%

<b>Project</b>	<b>FTE</b>
CSM-BGBD Project	90%
Miscellaneous Activities including fund raising	10%

**Education:**

- PhD in Production Ecology and Resource Conservation-Wageningen University and Resource Centre-The Netherlands (2003)  
*Thesis Title: A Hierarchical Method for Soil Erosion Assessment and Spatial Risk Modelling*
- MSc in Soil Survey, ITC, The Netherlands (1988)  
*Thesis Title: Characterization of Soil Sequences derived from Volcanic Tuff in the Loita plains with a view to their Genesis, Classification and Management (1988).*
- Diploma in Soil Survey, ITC, The Netherlands (1983)
- BSc University of Nairobi (1981)

**Positions held (since terminal degree):**

- Title, affiliation, years
  - Project Information Manager-Postdoctoral Fellow (PDF) –TSBF-CIAT 2003 to date
  - Research Scientist-Kenya Agricultural Research Institute (1989-2003)
  - Agricultural Officer, Ministry of Agriculture, Kenya (1984-1989)
  - Assistant Agricultural Officer –Ministry of Agriculture, Kenya (1981-1984)

**Research Responsibilities (2002 – present):**

- List here briefly your major research activities and areas of expertise
  - Conservation and Sustainable Management of Below-ground Biodiversity (Relating land use, soils and soil biota to agricultural enhancement and environmental services in selected ecological niches in seven tropical countries)
  - Information forms, utilization and knowledge exchange within the project context
  - Genetic resources sharing and exchange within the context of the conservation and sustainable management of below-ground project (CSM-BGBD project)
  - Team Leader: The Physical and Biology Resources Component of the KARI Cereals Strategic Plan (February 1993 to October 1993). I coordinated the development of paragraph V A and B. The following scientists worked under my charge. The late Mr. F.N Ndaraiya, The late Mr. G.O. Mochiemo, Mr. P.N. Mugwanja, Mr. M.P.O. Radiro, Mr. J.J. Anyango, Mrs. L. gatumbi and Mr. H. Ngesa replacing Mrs. Mwangi.
  - KARI Team Leader. The Presidential Task Force for Tana River Gravity Diversion Water Supply for Bura and Hola Irrigation Settlement Schemes (1992-1993). I coordinated KARI'S input into the project, which included: (i) A description of the soils along the proposed diversion canal (By Mr. P.F. Okoth and Mr. P. Kimani); (ii) A description of the salinity satus of the soils of the Bura Scheme (By Mr. A.E. Ekirapa); and (iii) An Agronomic Appraisal of the crops grown in the Bura Scheme (By Mr. P.N. Mugwanja).
  - Coordinator of spatial data acquisition and definition of the “lamd Use Zones” and Farmers

Sampling Strategy in the NUTMON Project (1994-1995). The participating Centres in included Kakamega, Kisii, Embu, and Kwale. I visited all the mandate regions of the centers, purchased and interpreted the satellite images of those regions and assisted the Project Coordinator Dr. Stephen Nandwa organize the district PRA district workshops where I presented papers and provided technical guidance to the project staff within the Centres in the Kenya Agricultural Research Institute (KARI).

- 1997-1998. developed A Land Use Classification System for Mapping and Classifying Land Use (A Case Study of Kiambu District). Contracted by The Food and Agriculture Organization of the United Nations under the Letter of Agreement No. CMT 131537.
- 1997. Contributed the Erosion Hazard Map of Kenya to the National Degradation Assessment and Mapping in Kenya through Kenya Soil Survey input into the project. Contract No. (Royal Netherlands Government (ref KE006202) and UNEP (ref FP/KL/0323-94-05). Partially implemented by Ministry of Technical Training, Research and Technology: Kenya Agricultural Research Institute.
- 2000. Conducted among other Kenyan scientists a pollution assessment of the Nairobi River Project. A consultancy assignment by the UNEP and HABITAT for their Cities management Programme.

**Professional Service (2002 – present):**

- Memberships & services in scientific societies
- Member of the Kenyan Team of the International Human Dimensions on Global Climate Change (2002)
- Service on editorial boards
- Peer Projects Reviewer: Rockefeller African Career Awards (2001-2002)
- Contributions to major global/regional initiatives and task forces
- Member of the Validation Team for the Lake Kivu Pilot Learning Site for the Forum for Agricultural Research in Africa (FARA) Sub-African Challenge Program
- Contributions to major international conferences (organizer)
- The annual meeting of the CSM-BGBD Project, February-March, 2004, Embu, Kenya (involving seven countries representatives to the project where progress of activities was reported and where adaptations made to the original project methodology)
- The Annual Meeting of the CSM-BGBD project April, 2005, Manaus Brazil (involving about 80 participants drawn from all over the world to present and discuss the CSM-BGBD project outputs and chart the way forward on matters that required re-addressing including filling in gaps and documenting project outputs by then)

**Honors and Awards (since terminal degree):**

- Only list major honors and awards
- *Outstanding Performance at the Sixth KARI Scientific Conference for Second Best Presentation in Crops (30<sup>th</sup> July, 1999).*

**Graduate Student Advisement (2002 – present):**

**Degrees completed**

M.S.

Ph.D.

**Current**

M.S. I

Ph.D.

- Currently supervising Ms. Celline Achieng, an MSc student at Kenyatta University studying below-ground soil biota in the context of policy.

**Refereed journal publications (2002-2006)**

- Only list papers that were published or have been accepted for publication in peer-reviewed international journals; do not include papers that have been submitted
- Consequences of Field management and Soil Erosion on the Sustainability of Large Scale Coffee farming in Kiambu by P.F. Okoth, J.K. Ng'ang'a and P.K. Kimani. Has been accepted for publication in the Scientific Journal of Food, Agriculture & Environment JFAE Vol 4. (2)-2006.

**Invited keynote presentation at major international conferences (2002-2006)**

- Only list invited keynote or plenary presentations at major international conferences of global scope
- Invited to present a Key Note Paper for the Bi-annual Meeting of African Remote Sensing and GIS Scientists (Presenting a Keynote Paper on Opportunities for Using Remote Sensing and GIS in Land Resources Management, October, 2004) at the Regional Centre for Land Resources Mapping, Nairobi, Kenya.

**Research Grants (2002 – present):**

- Only list grants on which you were the lead scientist or a principal investigator with major contributions
- **GA AS 9228, 23<sup>rd</sup> August 1993**, for the publication of the proceedings “Applications of Geographic Information Systems in Kenya”, US\$ 8,500 by The Rockefeller Foundation.
- **GA AS 9519, August 1996** for the purchase of satellite data for my Ph.D work. US\$ 11,500 by the Rockefeller Foundation.
- **KENSOTTER, March 1993**. For developing the Kenya Soil Terrain Database at Kenya Soil Survey. US\$ 71,180. Funding to Kenya Soil Survey by the International Soil Reference Centre (ISRIC) and the United Nations Development Programme (UNEP) for the global terrain soil database project (SOTER).