

## Staff Profile Page

Dr Samuel O. Ochola



### Job Title and Responsibilities

**About Me:** Lecturer, Member Postgraduate Curriculum Development Committee, Fourth Year Academic Advisor, Postgraduate supervision

**Qualifications:** Dr. Samuel O. Ochola holds a Dr. rer. nat. (MAGNA CUM LAUDE) in Geosciences from the University of Heidelberg - Germany. His doctoral work was on integrated flood risk management highlighting options for land-use planning at river basin level. He holds a M.Sc. in Geological Risks and Management from the

University of Geneva - Switzerland, M.Sc. in Environmental Geology and Management from the University of Nairobi - Kenya with a dissertation on measurement of greenhouse gases' (CH<sub>4</sub> and CO<sub>2</sub>) emissions in Kenyan lakes and wetlands and a B.Sc. in Geology (First Class Honours) from the University of Nairobi. He further built his capacity at several international courses notably Water and Sanitation, Disaster Resilience, Resources Management and Climate Change at the Centre of Excellence for Water and Environment (CAS-TWAS CEWE), Chinese Academy of Sciences in Beijing, China; Disaster Risk Management Course at the World Bank e-Institute for Development, Facilitating Multi-Actor Collaboration for Sustainable Resources Management at HUBrussels University in Belgium, Advanced Study of Disaster and Risk 2009 Summer Institute at Beijing Normal University, METIER (METHODs of Interdisciplinary Environmental Research) at Wageningen University and Multidisciplinary Tropical Lakes Studies with the University of Arizona. He has experience in project monitoring and evaluation, participatory work at all levels, environmental assessment and reporting.

**Professional Memberships and Activities:** Society for Theoretical and Applied Limnology

**Expertise:** Climate change, Geographic Information Systems and Disaster Risk Reduction

**Consultancies:** He has been a consultant severally for many organisations: USAID - Africa Lead/DAI, UNEP-Division of Early Warning; IUCN-ESSIPS, Renewable Energy Solutions for the Lake Victoria Environment (RESOLVE); DFID/Ukaid's Finance Innovation for Climate Change Fund (FICCF); African Collaborative Centre for Earth Systems Science (ACCESS); Century Microfinance Bank; Inuka MFI Ltd; K-Rep Microfinance Bank; African Union - Inter-African Bureau for Animal Resources (AU-IBAR); Training Centre in Communication; and Development Alternatives Inc., (DAI).

### Current Research Interests:

Dr. Samuel O. Ochola is an expert on climate change and variability, disaster resilience, facilitation of technical workshops/meetings at regional, national and community level with

great emphasis on participatory and multi-stakeholder approaches. He has research interests on the nexus between Climate-Disasters-Livelihoods and Food-Energy-Water. He is skilled in the application of Geographic Information Systems (GIS).

2016-2020 - Collaborating Researcher under African Collaborative Centre for Earth System Science in the Community Research and Development Information Service (CORDIS) DAFNE Project: Use of a Decision-Analytic Framework to explore the water-energy-food NEexus in complex and trans-boundary water resources systems of fast growing developing countries. Omo and Zambezi Basins. Funded by EU. Project ID: 690268. 12 collaborating institutions and coordinated from Switzerland. ils on: [http://cordis.europa.eu/project/rcn/203272\\_en.html](http://cordis.europa.eu/project/rcn/203272_en.html).

- The project website is [www.dafne.ethz.ch](http://www.dafne.ethz.ch)

### **Selected Publications:**

- Ochola, S. O and Lumumba J. (2016). USAID Partnership for Resilience and Economic Growth (PREG) Learning Event. USAID and Africa Lead-DAI. Pp. 95.
- Ochola, W.O. and Ochola, S.O. (2012) Information and communications technologies (ICTs), climate change and water: Issues and research priorities in Africa. p. 57-72. In Alan Finlay, A. and Adera, E. Eds (2012) Application of ICT for Climate Change Adaptation in the Water Sector: Developing country experiences and emerging research priorities. Association for Progressive Communications (APC) and the International Development Research Centre (IDRC). Goa, India. p. 113. ISBN: 978-92-95096-43-1.
- Mutai, C.C. and Ochola, S.O. (2011) Climate Change and Variability. p. 46-60. In NEMA (2011) Kenya State of the Environment Report 2010. National Environment Management Authority. Progress Press, Malta.
- Ochola, S.O., B. Eitel and D. O. Olago (2010). Vulnerability of schools to floods in Nyando River catchment, Kenya. *Disasters: Journal of Disaster Studies, Policy & Management*, 34(3), 732-754.
- Ochola, S.O. (2009) Integrated Flood Hazard, Vulnerability and Risk Assessment in Nyando River Catchment, Kenya: Options for Land-Use Planning. Sierke Verlag. Göttingen. P. 257.
- Adams, D.D. and S.O. Ochola. (2002) A review of sediment gas cycling with reference to Lake Victoria and sediment gas measurements in Lake Tanganyika, p. 277-305. In E.O. Odada and D.O. Olago, eds. (2002) *The East African Great Lakes: Limnology, Palaeolimnology and Biodiversity in Advances in Global Research book series by Kluwer Publishers*, Dordrecht, the Netherlands. p. 598.

**Current Teaching:** Environmental Innovations and Technology; Human Ecology and Adaptation; Climate Change and Community Livelihoods; Introduction to Geospatial Techniques; Environmental and Sustainable Development; and Environmental Disasters and Risk Management.

### **Contact Details**

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