

Research interests

- Remote sensing and Geographic Information System (GIS) applications in landcover/landuse mapping, geological mapping, lineament analysis for groundwater prospecting, especially in arid and semi arid areas, solid waste disposal sites, forestry.
- Geohazards research (especially landslides), geology and health and other environmental problems.
- Environmental Impact Studies, Environmental audit.

Publications

1. **Ucakuwun, E.K.** (1988): Geochemistry of the granitoid rocks and tectonic fracture analysis in the tin-belt of Southwest Ankole, Uganda. IGCP No. 255 Bull. No. 1, p. 65.
2. Cerný, P., **Ucakuwun, E.K.** & Chapman, R. (1989): A ferrotantalite-ferrotapiolite exsolution from Uganda. Neues Jahrbuch für Mineralogie, Monatshefte 1989/3, p. 109-120.
3. **Ucakuwun, E.K.** (1992): Structural control of mineralized pegmatites and hydrothermal tin-bearing veins in SW Ankole, SW Uganda. IGCP No. 255 Newsletter/Bulletin, 4, p. 83-89.
4. **Ucakuwun, E.K.** (1995): Sustainable Mining - The need for professional involvement. In: D.P.M. Hadoto and T. Schlueter (Ed.) Proceedings of the Seminar and Workshop: Environmentally sound management and Exploitation of mineral resources, and geological applications of Remote Sensing. 2-6 October 1995, Entebbe, Uganda. p.109-120. Published by UNEP, Nairobi.
5. **Ucakuwun, E.K.** (1997): Environmental Impact Assessment of National Hydropower Energy Projects. In: Environmental Impact Assessment in Kenya: Theory and Practice. M.P. Tole (Ed.) p. 62-67. Academy Science Publishers, Nairobi.
6. Mzuga, J.M., Tole, M.P. & **Ucakuwun, E.K.** (1998): The impact of geology and pit latrines on groundwater quality in Kwale District. In J. Hoorweg (Ed.), *Dunes, Groundwater, Mangroves & Birdlife in Coastal Kenya*. Coastal Ecological Series No.4., p. 85-96. ACTS Press, Nairobi.
7. Anyango, S.O., Tole, M.P. & **Ucakuwun, E.K.** (1998): Ground water resources and sea water intrusion in Kwale District. In J. Hoorweg (Ed.), *Dunes, Groundwater, Mangroves & Birdlife in Coastal Kenya*. Coastal Ecological Series No.4., p. 73-84. ACTS Press, Nairobi.
8. **Ucakuwun, E.K.** & Davies, T.C. (2000): Environmental Studies Programme: The Moi University Experience. Medical Geology Newsletter No. 2, p. 11-14.

9. Mzuga, J.M., Tole, M.P. & **Ucakuwun, E.K.** (2001): Contamination of groundwater resources by pit latrines in Kwale District, Kenya. *Discovery and Innovation*, 13 (3/4), p. 203-212.
10. Inganga, S.F., **Ucakuwun, E.K.** & Some, D.K. (2001): Rate of swelling of expansive soils: A critical factor in the triggering of landslides and damage to structures. *Documenta naturae*, 136, p. 93-98.
11. **Ucakuwun, E. K.** (2002): On the prediction of slump-type landslides using Kenyan case studies. *Africa Geoscience Review*, Vol. 9, no. 4, p. 397-400.
12. Mokono, M., **Ucakuwun, E.K.** & Kibe Muigai (2004): Trends in rural landuse patterns and their effects on wetlands – A case of Sironga Swamp, Nyamira District, Kenya. *African Environmental Review*, Vol. 1, No. 1, p. 15-23.