

CURRICULUM VITAE

1. PERSONAL DETAILS

Name: Daniel Ochieng Olago
Title: Prof.
Date of Birth: 3rd November 1965
Nationality: Kenyan
Marital Status: Married
Contact information: **Mobile** +254-722-768536
Tel: +254-20-4442015 ext 2093
Email: dolago@uonbi.ac.ke; olagodan@yahoo.co.uk
Languages: English (Spoken – excellent; Written – excellent; Reading – excellent);
Swahili (Spoken – excellent; Written – excellent; Reading – excellent);
French (Spoken – fair; Written – fair; Reading – good);
Luo (Spoken – excellent; Written – excellent; Reading – excellent);

Professional

Registration: **(1) The Geologists Registration Board, Reg. No. 92;**
(2) The National Environment Management Authority, Lead Expert Reg. No. 0085;
(3) Consultant Hydrogeologist, State Department for Water;
(4) Member, Environmental Institute of Kenya (EIK)

Golden Statement:

To build capacity, research on and provide world class services in earth sciences and global environmental change, be an influential proponent of sustainable environmental practices in local, regional and international contexts, helping to build capacity, provide and to mainstream innovative scientific, technological, managerial and policy solutions for sustainable development in, and adaptation to, our changing earth.

2. EDUCATION

University Education:

<u>Date Graduated</u>	<u>Duration, Degree, Subject, Place</u>
1996	4 year, D.Phil., Physical Geography, University of Oxford, UK
1992	2 year, M.Sc., Geology, University of Nairobi, Kenya

1989

3 year, B.Sc., Geology/Physics, University of Nairobi, Kenya

Schools Attended:

1979-1984: Lenana High School, Ordinary Level (Division 1) and Advanced Level (3 Principals) Certificates of Education

1972-1978: Kilimani Primary School, Nairobi, Certificate of Primary Education (Grade A)

3. KEY QUALIFICATIONS AND COMPETENCIES

<ul style="list-style-type: none">• Specialisation	Environmental Geoscience
<ul style="list-style-type: none">• Teaching and Research	Teaching (University level: BSc., MSc., PhD candidates) and research in the following areas for 22 years: <ol style="list-style-type: none">1. Environmental Geology2. Quaternary palaeoclimatology and palaeoenvironments3. Geolimnology, Sedimentology and Geochemistry4. Palaeontology and Palynology5. Surface- and ground-water chemistry and dynamics6. Human impact on the environment, global change processes, vulnerability and adaptation to climate change: past, present and future7. Supervised twenty-eight Master of Science and two Ph.D. students8. Supervised a considerable number of undergraduate student projects9. Published 84 papers/books and 10 significant technical reports10. Resource person in a number of short-courses for professionals and postgraduate students (hydrology, lake basin management, environmental management, climate change and adaptation)
<ul style="list-style-type: none">• Special Skills and Competencies	<ul style="list-style-type: none">• Proposal writing, report writing, editing and publishing;• Data collection, collation, analysis and reporting;• Strategic (geo-environmental) assessments and reviews including on climate, water, environmental change and vulnerability/adaptation issues in Africa;• Planning and organizing of workshops, conferences, meetings, training activities, and activity scheduling;• Research project planning, coordination, monitoring and evaluation;• Multi-stakeholder interactions and client relationships, e.g. with decision/policy makers and grassroots stakeholders in geo-

	<p>environmental and climate change issues on the basis of research projects undertaken;</p> <ul style="list-style-type: none"> • Capacity building in global environmental change research, networking and partnership-building between scientists and decision-makers • Budgeting and advocacy; • IT competent; • Familiar with the policies, laws and regulations that directly or indirectly relate to environmental, water and natural resources and sustainability issues • Evidence-based (geo-environmental) management and policy options and briefs for decision makers. • Mentorship • Team work: worked often with multidisciplinary teams comprising of both natural and socio-economic scientists, as well as with decision/policy makers, private, public, non-governmental and inter-governmental organizations.
<ul style="list-style-type: none"> • Leadership Roles 	<ul style="list-style-type: none"> • Chairman, Geological Society of Kenya, March 2007 – March 2011 (two consecutive terms) • Vice-Chairman, Geological Society of Kenya, 2006-2007 • Member, Executive Committee of the Geological Society of Kenya • Member of Oxford University Clubs Committee, 1991 to 1993. • Member, Worcester College Middle Common Room (MCR) Committee, 1991 to 1992. • Worcester College Representative to Oxford University Graduate Union, 1991 to 1992. • Chairman, Kenya Youth For Christ Missions Support Committee, 1988 to 1990. • Chairman, Nairobi University Geology Students Association (NUGSA), 1988 to 1989. • Member, Editorial Board of NUGSA Magazine, 1989. • Chairman, Organization of Nairobi University Science Students, 1988. • Elected Chairman, Nyerere Hall, University of Nairobi, Nov. 1987. • Vice-Captain, Nairobi University swimming team, 1987. • National Youth Service, May 1986 to August 1986.

4. PROFESSIONAL POSITIONS, RESPONSIBILITIES, AND ACHIEVEMENTS

- 1) **2012 to present: Associate Professor, Institute for Climate Change and Adaptation (ICCA) & Department of Geology, University of Nairobi, Kenya**
 - Natural/Basic Sciences Coordinator, Institute for Climate Change and Adaptation, University of Nairobi, August 2012 to date

- Teaching and Supervision of undergraduate and postgraduate students in ICCA & Geology
- Director/Principal Investigator in Kenya for three international projects (REACH Programme, Gro-for-Good Project, AfriWatSan Project)
- Class Tutor for postgraduate students, 2003 to date
- Performance appraisal ranking – “Outstanding” from 2008 to date
- Chair, ICCA Postgraduate Committee, 2018 to date
- Member, University Committee on Double Degree/Dual Awards Programme, March-May 2019
- Founding Chief Editor, Africa Journal of Physical Sciences, School of Physical Sciences, University of Nairobi, 2013 to date
- Member, CBPS Exhibition Committee, April 2013 to April 2014
- Member, CBPS Plagiarism Committee, April 2013 to date

2) 2003 to 2012: Senior Lecturer, Department of Geology, University of Nairobi, Kenya

- Teaching and Supervision of undergraduate and postgraduate students (14 MSc., 2 PhD completed)
- Research, including multi-disciplinary team projects (19 papers in refereed journals; 8 refereed book chapters; 9 books; 4 papers in refereed proceedings)
- Member of Faculty Postgraduate Studies Committee (FPSC) from 2003 to 2006; and now School of Physical Sciences Postgraduate Studies Committee (SPS-PSC) since 2006
- Curriculum Review Committee member, 2009-2011
- Class Tutor for postgraduate students, 2003 to date
- Performance appraisal ranking – “Outstanding” from 2008 to date
- Lead role in successful proposal for establishment of the Institute of Climate Change and Adaptation (Est. Nov. 2011) and Curriculum Development at the University of Nairobi, funded partly by Open Society Foundation (formerly Open Society Institute)

3) 1995 to 2003: Lecturer, Department of Geology, University of Nairobi, Kenya

- Teaching and Supervision of undergraduate and postgraduate students (4 MSc. completed)
- Research, including multi-disciplinary team projects
- Representative of the Dean of Faculty of Science in the Law of the Sea (LOS) Committee, September 1998-2000.
- Examinations and Student Registration Officer for Geology
- Secretary, Faculty of Science Income Generation Unit, Research and Training Section, March 1999-2001.

- Coordinator, Common Undergraduate Courses, Course CCS 005, Environmental Science, September 1998-1999.
- Chairman, Common Undergraduate Courses Syllabus Review Committee, Faculty of Science, 1999-2000.
- Member, Faculty Time-tabling Committee, October 2001- April 2003.

4) 1997 to 2006: Programme Officer, Pan African START Secretariat, Nairobi, Kenya

- Regional planning and coordination of research programmes
- Formulating, executing and administrating capacity building programmes
- Promoting regional cooperation in global change research by developing regional and national communities of scientists
- Developing links between regional science agendas and policy concerns
- Assist the Director in overseeing Fellowship Programmes and Research grants
- Assisting development of regional data and information systems
- Preparing integrated regional assessments for policy-making bodies and the public
- Production of Newsletters, Progress Reports and Annual Reports
- Monitoring and evaluation of programmes and activities
- Fundraising through proposal writing, budgeting, and office management

5) 2007 to 2011: Chairman, Geological Society of Kenya

- Overall management of the affairs of the Society
- Fundraising and budgetary oversight
- Advocacy and public education
- Promotion of the members welfare through engagement with Government, Public and Private Sectors
- Organisation of Geological Society of Kenya Conferences
- Advice to Government and private sector actors
- Development of Strategic Plan (2007-2011)
- Initiated process for the publication of the Journal of the Geological Society of Kenya
- Activated Fellowship Programme for the Geological Society of Kenya
- Activated Corporate Membership class resulting in greatly increased funds for the Society

6) 2006 to 2007: Vice Chairman, Geological Society of Kenya

7) Short-Term Contracts

- National Consultant for the Nile Basin Initiative (NBI) Project Preparation Document for “Enhancing Conjunctive Management of Surface and

Groundwater Resources in Selected Transboundary Aquifers” Project, November 2018 to May 2019. NBI Secretariat, Entebbe, Uganda.

- Research Assistant, Department of Geology, University of Nairobi, July to September 1988.
- Assistant (volunteer), The British Geothermal Project in Kenya, March, 1989 (vacation job).
- Research Assistant, Dept. of Geology, University of Nairobi, July 1988 to September, 1988 (vacation job).
- Marketing Assistant, Kodak (K) Company, July 1987 to August 1987 (vacation job).
- Electronics Trainee Technician, Kenya Railways Corporation, January 1985 to May 1986.

5. PROFESSIONAL AND ACADEMIC LEADERSHIP/MANAGEMENT: NATIONAL AND INTERNATIONAL

National:

- 1) Member of team selected to prepare a National Ground Water Policy for Kenya, May to June 2013.
- 2) Co-Chair, Technical Scientific Committee (TSC) on the Groundwater Resources Survey in Upper Turkana County. Ministry of Water and Irrigation and UNESCO Project, implemented by Radar Technologies International (RTI). Jan-Sept 2013.
- 3) Member of Thematic Working Group SC7 - Knowledge Management and Capacity Development, for the Ministry of Environment and Mineral Resources - Climate Change Response Strategy Action Plan, 2012.
- 4) Chairman, Chiromo Campus Club, May 2013 to May 2017.
- 5) Chairman, Geological Society of Kenya (GSK), March 2007 to March 2011.
- 6) Vice-Chairman, Geological Society of Kenya (GSK), 2006 to 2007; member since 1997.
- 7) Chairman, Network of African Science Academies (NASAC) Water Programme Steering Committee, 2010 to date.
- 8) Co-organiser, Resource Person and/or Facilitator roles at several national meetings
- 9) Member, Rhodes Scholarship Selection Committee for Kenya, 1996 to 2000.
- 10) Board Member, Dago Kokore Secondary School, 2010-

International

- 1) Member, International Lake Environment Committee (ILEC), 2007 to date
- 2) Member, Climate Variability (WCRP) – Variability in African Climate System (CLIVAR-VACS) Panel, June 2003 to 2009.
- 3) Intergovernmental Panel on Climate Change (IPCC) – Expert Scientist: Contributing Author in the 3rd Assessment Report and Lead Author in the 4th Assessment Report (2007)

- 4) International Scientific Steering Committee Member, International Geosphere-Biosphere Programme - Past Global Changes Programme (IGBP-PAGES SSC), 2000-2005.
- 5) Editorial Board Member of the following International Journals:
 - (i) Palaeoecology of Africa, 2007 to date
 - (ii) The Holocene, 2005 to date
 - (iii) Quaternary International, 2004 to date
- 6) Paper Reviews for the following Journals:
 - (i) International: Palaeoecology of Africa, The Holocene, Quaternary International, Palaeoecology Palaeoclimatology Palaeogeography (Palaeo3), Lakes and Reservoirs – Research and Management; Journal of African Earth Sciences (JAES), Hydrogeology Journal, Journal of Hydrology, Hydrological Sciences Journal, African Journal of Science and Technology (AJST), International Journal of Biological and Chemical Sciences, Hydrology and Earth System Sciences (HESS), International Journal of Biometeorology.
 - (ii) National: Kenya Journal of Sciences.
- 7) Invited Keynote Presentations at Major International Colloquia:
 - (i) Climate Change and Adaptation: Mainstreaming Climate Change Adaptation into Development Policies in East Africa (WWF_EARPO, ACTS and ATPS), 14-16 October 2008, Silver Springs Hotel, Nairobi, Kenya. *Paper presented: Vulnerability Assessment of Freshwater Ecosystems to Climate Change in East Africa.*
 - (ii) International Conference on Groundwater and Climate in Africa, 24-28 June 2008, Hotel Speke Munyonyo, Kampala, Uganda. *Paper presented: Holocene palaeohydrology, groundwater and climate change in the Lake Basins of the Central Kenya Rift.*
 - (iii) International Geosphere-Biosphere Programme (IGBP) Congress, 05 - 09 May 2008, Cape Town International Convention Centre, Cape Town, South Africa. *Paper presented: Africa: Palaeo-perspectives on water and land cover with emphasis on eastern Africa.*
 - (iv) IPCC Working Group II Africa Regional Expert Meeting: Third Assessment Report (TAR) "Climate Change: Impacts, Adaptation and Vulnerability", Rabat, Morocco, 2 to 6 August 1999. *Paper presented: Vegetation changes over palaeo time scales in Africa*
- 8) Experience in Conference Organisation, Facilitation and Reporting
 - (i) Integrated Lake Nakuru Basin Management Workshop, Merica Hotel, Nakuru, 13th to 14th December, 2011. **Member of the ILEC Organising Committee.**
 - (ii) Workshop on the Development of Integrated Lake Basin Management (ILBM) Platform. Imperial Hotel, Kisumu, 7th December 2011. **Member of the ILEC Organising Committee.**
 - (iii) NASAC-KNAW Conference and 5th TWAS-ROSSA Young Scientists Conference. 23rd to 27th February 2011, Hilton Hotel, Nairobi. **Hon. Secretary of the Organising Committee.**
 - (iv) Integrated Lake Basin Management (ILBM) and Sanitation Challenges in the Kisumu-Winam Bay Region and in Lake Victoria, 14th February 2011, Imperial Hotel, Kisumu, Kenya. **Member of the ILEC Organising Committee and Rapporteur General.**

- (v) Kenya Groundwater Governance Case Study Stakeholder Workshop, 2nd September 2010, Utalii Hotel, Nairobi, Kenya. Organised by Ministry of Water and Irrigation, Kenya, Water Resources Management Authority, Kenya, and World Bank. **Facilitator and Workshop Report Writing**
- (vi) Parliamentary Committees Sensitization Workshop on Climate Change, 8-9th October 2009, Mombasa Continental Hotel, Mombasa, Kenya. **Resource Person.**
- (vii) Pre-AMCEN African Climate Change Scientists Meeting, 21-22 May 2009, ICRAF, Nairobi. Consultative Meeting. **Resource Person.**
- (viii) National Launch of IYPE and 12th Geological Society of Kenya Conference, 17-19 March 2009, PanAfric Hotel, Nairobi. **Member of Organising Committee, Editor of Workshop Report.**
- (ix) The 11th World Lakes Conference, 31st October to 4th November 2005, Nairobi, Kenya. Organised by ILEC and Ministry of Water and Irrigation, Kenya. **Member of Organising Committee; In Charge of Scientific Programme and Production of the Two Proceedings Volumes.**
- (x) Remote Sensing and GIS Training Workshop. Held at Regional Centre for Mapping of Resources for Development, Nairobi, Kenya, 22nd October to 5th November 2004. Sponsored by START. **Co-organiser.**
- (xi) Ecosystem Outlook for the Lake Victoria Basin Workshop, 2-4th September, 2004. Pan African START Secretariat (PASS). Sponsored by PASS/UNEP. **Co-organiser.**
- (xii) National Workshop on Science and Technology Park Development for Sustainable Industrial Growth. Holiday Inn, Nairobi, Kenya, June 30th 2004. Organised by Kenya National Academy of Sciences. **Rapporteur and Workshop Report Writing.**
- (xiii) International Young Scientists Global Change Conference, Trieste, Italy, November 17-19, 2003. **Co-organiser.**
- (xiv) The East African Lakes - IDEAL Project. The African Pollen Database (APD) and SEARCH Workshop. Nairobi, Kenya, 22-26 October 2001. **Co-organiser.**
- (xv) IDEAL Second International Symposium, Club Makokola, Malawi, 10th to 13th January, 2000. **Co-organiser.**
- (xvi) Freshwater Resources in Africa Workshop, held at UNEP Headquarters, Nairobi, Kenya, 26-29 October 1999. **Local Organising Committee.**
- (xvii) The Environmental Background to Hominid Evolution in Africa: Quaternary and Holocene sedimentary records in Central Africa and their palaeoenvironmental interpretation. Session P10 Workshop, INQUA XV International Congress, Durban, South Africa, 3rd to 11th August 1999. **Session Organiser.**
- (xviii) Saline-Alkaline Lakes in Eastern and Southern Africa Workshop. Nairobi, Kenya, 24th to 27th September, 2000. Funded by German Exchange Programme (DAAD) and UNESCO. **Co-organiser. Paper presented: [Physico-chemical processes in the saline alkaline lakes of Kenya.](#)**
- (xix) GIS/Remote Sensing in Spatial Modelling and Environmental Training Workshop. Maputo, Mozambique, 13th to 18th July, 2000. Funded by PASS/START/Miombo Network. **Co-organiser.**
- (xx) IGBP SAC V Meeting held at UNEP Headquarters, Nairobi, Kenya, 1-7 September, 1998. **Local Organising Committee.**

6. MEMBERSHIP IN LEARNED SOCIETIES

- 1) Geological Society of Kenya, 1997 to date
- 2) Kenya National Academy of Sciences, 2005 to date
- 3) Fellow of the African Academy of Sciences, March 2017 to date

7. RESEARCH GRANTS AND PROJECT ROLES

a) Ongoing

- 1) Jun 2018 – May 2020: PI, **African Great Lakes Information Platform: An open, shared and relevant IT platform for state-of-the-art knowledge and information sharing, learning and action.** Funded by The Nature Conservancy (TNC). Amount awarded: USD60,000. Grant agreement no: F103871-UoN-010418.
- 2) Oct 2017 – Dec 2021: co-PI, **GCRF - Training for Development: East African Growth Corridors and the China to Africa connection.** Funded by Economic and Social Research Council (ESRC), UK. Amount awarded: £4,217,478. Project Reference: ES/P011500/1.
- 3) Jun 2015 – May 2022: co-PI, **REACH, Improving Water Security for the Poor.** Improving Water Security for Poor People Research Project (IWSP Research). Funded by UK-DFID. Project. Amount awarded: GBP 14,992,484. Reference: PO 6456.
- 4) Jan 2015 – Dec 2020: co-PI, **Sustaining urban groundwater-fed water supplies and sanitation systems in Africa.** Awarding body: Royal Society-DFID Capacity Building Initiative - Programme Grant award. Amount awarded: GBP 1,185,845. (with R. Taylor, University College London; Cheikh Gaye, Université Cheikh Anta Diop, Senegal; M. Owor, Makerere University). Project Reference: AQ140023.
- 5) Apr 2014 – Mar 2019: co-PI, **Groundwater risk management for growth and development (GRo for Good).** Awarding body: UPGro (Unlocking the Potential for Groundwater for the Poor - sub-Saharan Africa), funded by the UK Department for International Development (DFID), the Natural Environment Research Council (NERC) and the Economic and Social Research Council (ESRC). Amount awarded: GBP 1,896,000. (with Rob Hope - Lead PI, University of Oxford; Bancy Mati, JKUAT, Kenya; Albert Folch, Universitat Politècnica de Catalunya (UPC), Spain). Project Reference: NE/MOO8894/1.
- 6) 2014-2017: **Water Infrastructure Solutions from Ecosystem Services Underpinning Climate Resilient Policies and Programmes (WISE-UP to Climate).** Awarding/Funding Body: International Climate Initiative 2012, Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (BMU). Global Water Programme, International Union for Conservation of nature (IUCN), Volta Basin Authority (VBA), Council for Scientific and Industrial Research, Ghana, Tana-Athi Rivers Development Authority (TARDA), University of Nairobi, International Water Management Institute, Basque Centre for Climate Change, University College London, Overseas Development Institute.
- 7) 2014-2015: PI, **Development of Shared Groundwater Resources in the Mount Elgon Volcanic Aquifer Region under conditions of Climate Change and Variability.** Awarding body: IGAD-INWRMP. Amount awarded: EUR20,000.
- 8) 2014-2017: co-PI, **DeepCHALLA: two glacial-interglacial cycles (ca. 250,000 years) of climate and ecosystem dynamics on the East African equator.** Awarding body: International Continental Scientific Drilling Program (ICDP). Amount awarded:

USD700,000.00. (with: Dirk Verschuren, Philip Barker, Maarten Blaauw, Feng Sheng Hu, on behalf of the international DeepCHALLA consortium).

- 9) 2014-2016: co-PI, ***Paleoenvironmental reconstruction of Holocene changes in Lake Victoria Catchment***. Awarding body: Swedish Research Council - Swedish Research Links (SRL) Programme. Amount awarded: SEK751,000. (with Joyanto Routh, University of Linköping, Sweden). Project Reference: 2013-6760.
- 10) 2013-2014: co-PI, ***Groundwater Risks and Institutional Responses in Kwale County***. Awarding body: DFID/NERC/ESRC. Amount awarded: £133,005.
- 11) October 2013 to September 2014: co-PI, ***Sustaining urban groundwater-fed water supplies and sanitation systems in Africa***. Royal Society - DFID Africa Capacity Building Initiative Network Award, funded by RS-DfID. Amount awarded: GBP24,920. (with Taylor (UCL) / Gaye (UCAD) / Olago (UoN) / Owor (MU)).
- 12) July 2013 to June 2016. ***Early Warning Systems for improved Human Health and Resilience to Climate-Sensitive Vector-Borne Diseases in Kenya***. Collaborating institutions: University of Nairobi, Kenya; Jaramogi Oginga Odinga University of Science and Technology, Kenya; Garissa University College, Moi University, Kenya, and University of Copenhagen, Denmark. Funded by WHO/TDR/IDRC, US\$ 676,075.
- 13) January 2012 to January 2013. TECLEA – ***Testing Biodiversity Responses to Climate and Land-use Changes across East African Highlands***. In collaboration with: Prof. David Williamson (Project Leader - Institute de Recherche pour le Developpement, Universite Paris VI, Paris, France and ICRAF, Nairobi, Kenya); Team Leaders – (1) Prof. Joel Guiot (Team Leader, Universite Paul Cezanne, France), (2) Arnaud Huguet (Universite Pierre et Marie Curie, France); (3) Roland Kindt (ICRAF, Kenya); (4) Daniel Olago (University of Nairobi, Kenya), (5) Amos Majule (University of Dar es Salaam, Tanzania), (6) Stephen Rucina (National Museums of Kenya, Kenya). Funded by the Fondation pour la Recherche sur la Biodiversite, Paris, France. Funding : EUR300,000 for the Pre-Project.

- *Role: Team Leader; Environmental Geology; Environmental Policies; Climate and Land-use; Subsurface Geobiochemical Proxies.*

b) Completed

- 1) 2007-2011. ***Suguta Valley Project – Palaeoclimatology and Palaeolimnology of the Suguta Valley, Kenya***. In collaboration with Prof. Dr. Martin Trauth, University of Potsdam, Germany. Funded by University of Potsdam, EUR210,000.
- *Role: Principal Investigator and Local Logistics*
- 2) December 2010 to December 2011. ***Building Climate Change Adaptation Capacity at African Universities: A Proposal to Establish the Climate Adaptation Research Institute (CARI) at the University of Nairobi***. In collaboration with Prof. Shem Wandiga, Dr. Gilbert Ouma, Dr. Maggie Opondo, Prof. Joash Aluoch, and Prof. Madara Ogot. Funded by the Open Science Institute (OSI). Funding: US\$7,024,398 (OSI – US\$3,172,398; UoN in-kind – US\$3,852,000).
- *Role: Lead proposal writer; Natural/Basic Sciences Coordinator.*
- 3) 2006-2010. ***MAWARI PROJECT - Sustainable Management of Water Resource in the East African Rift System: Vulnerability of Groundwater to Pollution in the East African Rift System in Kenya***. Department of Geology, University of Nairobi. Funded by CIFEG, France. Funding: EUR300,000.

- *Role: Principal Investigator and Student Research Mentorship (4 MSc. students supervised)*
- 4) 2006-2010. ***Integrating Vulnerability and Adaptation to Climate Change into Sustainable Development Policy Planning and Implementation in Eastern and Southern Africa: KENYA Pilot Project Design: Increasing Community Resilience to Drought in Makueni District.*** In collaboration with Centre for Science, Technology and Innovation (CSTI), and Arid Lands Resource Management Project (ALRMP – GoK). Funded by UNEP-GEF. Funding: US\$300,000.
 - *Role: Principal Investigator (Water resources assessment: construction of sand dams, shallow wells, drip irrigation systems; national policy options analysis and advocacy – lobbied successfully for integration of climate change in National Disaster Policy)*
 - 5) 2007-2008. ***Strengthening Community-Based Adaptation to Climate-Sensitive Malaria in Kakamega and Kericho Districts, Western Kenya Highlands.*** In collaboration with Centre for Science, Technology and Innovations (CSTI). Funded by ACCCA (Advancing Capacity to Support Climate Change Adaptation). Funding: US\$70,000.
 - a. *Role: Principal Investigator (Hydrology and land cover assessment)*
 - 6) 2002-2005. ***An assessment of vulnerability and adaptation to climate variability and climate change impacts on malaria and health in the Lake Victoria region in East Africa*** (coordinated by Kenya National Academy of Science: with consortium of scientists from Kenya, Tanzania, Uganda). Funded by AIACC Project, Washington DC, USA. Funding: US\$285,000.
 - b. *Role: Principal Investigator (Linkages between Hydrology, Climate and Health)*
 - 7) 2003-2004. ***Global International Waters Assessment (GIWA-UNEP) - The East African Rift Valley Lakes sub-region no. 47*** (with consortium of scientists from Kenya, Ethiopia, Malawi, Tanzania, Uganda, South Africa). Funding: US\$30,000; GIWA-UNEP.
 - c. *Role: Co-Coordinator of the Assessment and Compilation of the Assessment Report*
 - 8) 1990-2000. ***Palaeoenvironments and carbon cycling on the East African mountains during the late Quaternary period.*** In collaboration with Prof. F.A. Street-Perrott, Department of Geography, University of Wales, Swansea, UK). Funded by UK-NERC.
 - d. *Role: Principal Investigator (Palaeoclimate from sediment geochemical and mineral magnetic proxies)*

c) Submitted

- 9) WSC - Category 2 Collaborative Water at the Crossroads: Social-ecological system dynamics of Turkana, the largest desert lake, in the face of dams, development and climate change (PI - Prof. Kamazima Lwiza, Stony Brook University, USA; Submitted to US-NSF, September 2013, \$ 2,465,079).

8. SCHOLARSHIP AND MERITORIOUS AWARDS

- 1) Certificate of Recognition from the African Academy of Sciences (AAS) and the Association of Commonwealth Universities (ACU) for successfully supervising the postdoctoral research work of Dr. Hannah Karuri, January to December 2015, under the Climate Impacts Research Capacity and Leadership Enhancement (CIRCLE) Programme.

- 2) Contributed to the Award of Nobel Peace Prize for 2007 to the Intergovernmental Panel on Climate Change (IPCC) as Lead Author in Working Group 1: Climate Change 2007: The Physical Science Basis. Presented a Certificate of Recognition (2007) by the Intergovernmental Panel on Climate Change.
- 3) 1998 International START Young Scientist Award for the research paper (in press at the time): Olago, D.O. *et al.* (2000). Long-term temporal characteristics of palaeomonsoon dynamics in equatorial Africa. Global and Planetary Change Vol. 26 /1-3: 159-171.
- 4) RHODES Scholar for Kenya, 1990, University of Oxford, UK.
- 5) DAAD Scholar, University of Nairobi, 1989 to 1990.

9. TRAINING ATTENDED

- 1) Training for Chairmen of Departments and Chairmen of Graduate Studies Committees on Graduate Processes in the Success of Graduate Programmes, Friday 22nd February 2019, MLT405, 4th Floor, University of Nairobi Towers.
- 2) Water Resources Capacity Building Workshop, Training on HEC-DMS Model, April 28-30, 2014. Chiromo Campus, University of Nairobi.
- 3) Training on Procurement Rules and Regulations, 14 October 2011, College of Biological and Physical Sciences, University of Nairobi, Kenya. Funded by University of Nairobi.
- 4) Transformative Leadership and Results Based Management, 25-26 October 2007, Taifa Hall, University of Nairobi, Nairobi, Kenya. Funded by University of Nairobi.
- 5) Training on Pedagogical Skills, 1-3 October 2007, University of Nairobi, Nairobi, Kenya. Funded by University of Nairobi.
- 6) Training Workshop in Integrated Environmental Assessment and Reporting, 24-28th May 2004, Nairobi, Kenya. Funded by UNEP-DEWA.
- 7) Development and Application of Scenarios in Impacts, Adaptation and Vulnerability Assessments. AIACC Intensive Training Course, University of East Anglia, Norwich, UK, 15-26th April 2002. Funded by UNEP, TWAS and START (Awarded Certificate of Attendance).
- 8) Regional Training Workshop on GIS Applications for Management of Earth Resources Data and Information, University of Nairobi, Kenya, 1-7 February 1999. Funded by START/University of Nairobi/UNESCO (Awarded Certificate of Attendance).
- 9) African-GAIM Modelling Workshop, March 3 to 12, 1997, Mombasa, Kenya. Funded by IGBP-GAIM (Awarded Certificate of Attendance).

10. RESOURCE PERSON IN TRAINING

- 1) AfriWatSan Project Technicians Training Workshop, 30 July to 1 August 2018, Arziki Conference Centre, College of Biological and Physical Sciences, University of Nairobi, Kenya. Funded by The Royal Society Capacity Building Initiative and the UK-DFID. Host – Department of Geology, University of Nairobi.
- 2) Training Researchers on Writing Winning Grants, 22 June 2018, ICCA, College of Biological and Physical Sciences, University of Nairobi, Kenya. Funded by University of Nairobi. Presentation: Tips for Successful Grant Writing.

11. STUDENT SUPERVISION

1. Ph.D

	NAME	INSTITUTION & Co-Supervisors	TITLE	STATUS
1.	Aluoch, Jacinter Amadi (2014)	University of Nairobi, Kenya Dr. George O. Ong'amo, UoN; Dr. Silas O. Oriaso, UoN	Effects of Climate Variability on Ecohydrological Conditions and their Influence on Malaria Risk in Baringo County, Kenya	Completed, August 2018
2.	Omemo, Peter (2013)	University of Nairobi, Kenya Prof. S. Wandiga, UoN; Prof. W. Ogara, UoN	Juveniles' Enteric Disease Risks and Household Adaptation Strategies towards Climate Change in the Lake Victoria Basin, Kenya	Completed, July 2018
3.	Muriithi, Gideon Muchiri (2013)	University of Nairobi Dr. Gilbert Ouma, UoN; Dr. Silas Oriaso, UoN	Impacts of Seasonal Climate Variability and Weather Forecasts on Livestock Production and Marketing in Baringo County, Kenya	Completed, October 2018
4.	Ogallah, Samson Samuel (2015)	University of Nairobi Prof. Shem Wandiga, UoN; Dr. Silas Oriaso, UoN	Impacts of Climate Variability and Change on Smallholder Farmers and Adaptation Strategies in Southwest Nigeria	Completed, October 2018
5.	Mulonga, Julie Kavuka (2013)	University of Nairobi, Kenya Prof. K. Mavuti, Machakos University College; Dr. Penina Ogada, UoN	Assessing climate change vulnerability of the communities dependent on mangrove ecosystems in the Tana River delta, Kenya	Ongoing
6.	James Kaoga Otieno (2014)	University of Nairobi, Kenya Dr. Gilbert Ouma, UoN & Prof. George Ouma, UoN	Embracing biocultural relations for sustainable pastoralism under changing climate in Kajiado County and analogous ASALs, Kenya	Submitted, March 2019

7.	Muhati, Godwin Leslie (2013)	University of Nairobi, Kenya Dr. Lydia Olaka, UoN	Sustaining carbon sequestration potential and ecosystem services in Mount Marsabit forest under different land use and climate change scenarios	Intent to submit, Apr 2019
8.	Mwenda, Peninah, K. (2013)	University of Nairobi, Kenya Dr. Ali Adan, National Museums of Kenya & Prof. Frederick Okatcha, UoN	An assessment of the impact of climate change-related extreme events on mental health in Isiolo County, Kenya	Intent to submit, Mar 2019
9.	Christine Omuombo (2011)	University of Nairobi, Kenya Prof. David Williamson, University of Pierre Marie Curie, France	Subsurface geo-biochemical proxies of climate change and land use patterns along a climate gradient from the Kenya highlands	Intent to submit, Feb 2019
10.	Kanoti, Japhet Rugendo (2014)	University of Nairobi, Kenya Prof. Norbert Opiyo, Prof. C. Nyamai	The Geometry, Hydrogeochemistry and Vulnerability of Aquifers to Pollution in Urban and Rural Settings: A Case study of Kisumu and Mt. Elgon Aquifers	Ongoing
11.	Florence Tanui (2016)	University of Nairobi, Kenya Dr. Z. Kuria, Dr. G. Ouma	The Hydrogeology of the Lodwar Alluvial Aquifer System and its Vulnerability to Rainfall and Streamflow Variability, Turkana, Kenya	Ongoing
12.	Dennis Muriithi Njagi	University of Nairobi, Kenya Prof. Joyanto Routh	High-Resolution Multi-proxy Sedimentological and Geochemical Reconstruction of Holocene Changes in Kenya	Ongoing
13.	Julian Awuor Ogondo (2013)	Maseno University, Kenya Prof. Boniface Oindo	An Assessment of Paleowater Quality on Beaches of Rusinga-Mfangano Islands Lake Victoria, Kenya using Ostracodes as Paleoclimate Indicator	Ongoing
14.	Olaka, Lydia Atieno	Potsdam University, Germany Prof. Dr. Martin Trauth, University of Potsdam, Germany	Hydrology across scales: Sensitivity of East African Lakes to Climate Changes	Completed, August 2011
15.	Ochola, Samuel O. (2005)	University of Heidelberg, Germany	Integrated flood hazard, vulnerability and risk assessment in Nyando River catchment, Kenya: Options for land use planning	Completed, Jan 2009, Magna cum Laude

		Prof. Dr. Bernhard Eitel, University of Heidelberg, Germany		
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2. M.Sc degree/Postgraduate diploma

	NAME	INSTITUTION	DEGREE PROGRAM	TITLE	STATUS
1.	Bett, Kipng'etich Gilbert	Department of Geology, University of Nairobi, Kenya	Master of Science in Geology (Petroleum Geology)	Geochemical evaluation of the hydrocarbon potential of source rocks in the Anza basin	Completed (Nov 2018)
2.	Wetende Eric (2013)	Institute for Climate Change and Adaptation, University of Nairobi, Kenya	Master in Climate Change Adaptation (MCCA)	Perceptions, challenges and adaptation strategies to climate change and variability: the case of smallholder dairy farming systems in Siaya sub-County, Siaya County	Completed (Mar 2018)
3.	Masimbe, Tinashe (2015)	Institute for Climate Change and Adaptation, University of Nairobi, Kenya	Master in Climate Change Adaptation (MCCA)	Building resilience to the impact of climate extremes on water supply in urban informal settlements: a case study of Kisumu city.	Completed (Mar 2018)
4.	Wanjohi, Hellen Njoki	Institute for Climate Change and Adaptation, University of Nairobi, Kenya	Master in Climate Change Adaptation (MCCA)	Urban form and adaptation to build resilience to climate change: an exploratory study of Mathare valley informal settlement in the city of Nairobi, Kenya	Completed (Mar. 2017)
5.	Kamau, Purity Mwhaki (2013)	Department of Geology, University of Nairobi, Kenya	Master of Science in Geology (Applied Geochemistry)	Determination of Hydrocarbon Source Rock Maturity using Smectite Percentages (S%) and Vitrinite Reflectance (R_0) of Rock Samples from Lamu Basin, Kenya	Completed (Nov 2016)
6.	Ogut, Julius Odida (2012)	Department of Geology, University of Nairobi, Kenya	Master of Science in Geology (Applied Geophysics)	Aquifer Geometry and Structural Controls on Groundwater Potential in Mount Elgon Aquifer, Trans-Nzoia County, Kenya	Completed (Sep 2015)
7.	Njagi, Dennis Muriithi (2012)	Department of Geology, University of Nairobi, Kenya		The Plio-Pleistocene History of Sedimentation in Lake Baringo Basin, Kenya - A Drill Core Perspective	Completed (July 2015)
8.	Mulusa, George Igunza (2011)	Department of Geology, University of Nairobi, Kenya	Master of Science in Geology (Applied Geochemistry)	Effects of sea water intrusion on the chemistry of hot springs: A comparative study between Majimoto hot springs in the Kenyan South Coast and Bogoria Hot springs in the Rift Valley	Completed (July 2014)

9.	Masimbe, Tinashe (2011)	Department of Geology, University of Nairobi, Kenya	Postgraduate Diploma in Natural and Environmental Disaster Management	Vulnerability of Kibera Slum Dwellers to Natural and Anthropogenic Disasters	Completed (Mar 2013)
10.	Ochieng, Leakey Auko (2011)	Department of Geology, University of Nairobi, Kenya	Master of Science in Geology (Applied Geochemistry)	Evaluation of the hydrochemical facies of the Barrier Volcanic Complex geothermal fluids in developing a conceptual model	Completed (July 2013)
11.	Muraguri, Philip Mbitiru (2008)	Jomo Kenyatta University of Agriculture and Technology, Nairobi, Kenya	Master of Science in Environmental Legislation and Management	Study of groundwater quality in Nairobi, Kenya	Completed (2012)
12.	Mang'eni, Fredrick Bwire (2010)	Department of Geology, University of Nairobi, Kenya	Master of Science in Geology (Hydrogeology and Groundwater Resource Management)	Groundwater Quality in Samia Area of Busia County, Western Kenya	Completed (Aug 2012)
13.	Okech, Emily, A. (2007)	Department of Geology, University of Nairobi, Kenya	Master of Science in Geology (Environmental Geology and Management)	Anthropogenic influence on surface and groundwater quality in Lake Nakuru basin, Kenya	Completed (June 2012)
14.	Suwai, Janet, J. (2007)	Department of Geology, University of Nairobi, Kenya	Master of Science in Geology (Hydrogeology and Groundwater Resource Management)	Assessment of vulnerability of groundwater to pollution in the Lake Nakuru Basin (Kenya) using the PI method	Completed (June 2012)
15.	Wamalwa, Ruth (2010)	Department of Geology, University of Nairobi, Kenya	Master of Science in Geology (Environmental Geology and Management)	Potential vulnerability of water resources to pollution from coal mining in Mui Basin, Kenya	Completed (July 2011)
16.	Kangogo, Deflorah Jerobon (2009)	Department of Geology, University of Nairobi, Kenya	Master of Science in Geology (Applied Geophysics)	Subsurface structures and characterisation of the Silali geothermal system, Kenya Rift, using magnetotelluric and transient electromagnetics mapping	Completed (July 2011)
17.	Adede, David O. (2007)	Department of Geology, University of Nairobi, Kenya	Master of Science in Geology (Environmental Geology and Management)	Potential effects of changes in climate, land cover and population on the quantity of water resources in Lake Nakuru basin, Kenya	Completed (June 2011)
18.	Omuombo, Christine Atieno (2009)	University of Algarve, Portugal	Erasmus Mundus European Joint Master in Water and Coastal Management	A system approach framework to the management of Lake Bogoria, Kenya	Completed (April 2010) With distinction

19.	Ongwae, M. Samoka	Department of Geology, University of Nairobi, Kenya	Master of Science in Geology (Hydrogeology and Groundwater Resource Management)	Groundwater recharge of confined aquifers in the Upper Ewaso Ng'iro North River Basin, Kenya	Completed (July 2010)
20.	Kanda, Isaack Kiprono (2007)	Department of Geology, University of Nairobi, Kenya	Master of Science in Geology (Applied Geochemistry)	Aquifer stratigraphy and hydrogeochemistry of the Nakuru Basin, Central Kenya Rift, Kenya	Completed (May 2010)
21.	Ogondo, Julian A. (2005)	Department of Geology, University of Nairobi, Kenya	Master of Science in Geology (Palynology and Micropalaeontology)	Palaeoclimate of Ondiri Swamp, Kikuyu, Kenya	Completed (2008)
22.	Alamirew, D. (2005)	Department of Geology, University of Nairobi, Kenya	Master of Science in Geology (Hydrogeology and Groundwater Resource Management)	Hydrogeology of the Nakuru-Elementeita-Naivasha watershed (Kenya Rift)	Completed (2007)
23.	Owuor, George, G. (2004)	Department of Geology, University of Nairobi, Kenya	Master of Science in Geology (Environmental Geology and Management)	Assessment of sub-surface hydrocarbon contamination resulting from fuel storage depots, Shimanzi area, Mombasa, Kenya	Completed (June 2011)
24.	Ogalo, J.A. (2004)	Department of Geology, University of Nairobi, Kenya	Master of Science in Geology (Hydrogeology and Groundwater Resource Management)	Use of depth to watertable, soil and topography in modelling vulnerability of groundwater to pollution in Nakuru-Elementeita-Naivasha watershed, Kenya Rift	Completed (2007)
25.	Okoo, Joyce A. (2004)	Department of Geology, University of Nairobi, Kenya	Master of Science in Geology (Hydrogeology and Groundwater Resource Management)	Concentration levels and pattern of fluoride distribution in groundwater from Kendu Bay area, Kenya	Completed (2007)
26.	Kemboi, Ezekiel (2004)	Department of Geology, University of Nairobi, Kenya	Master of Science in Geology (Environmental Geology and Management)	Application of recharge, aquifer media, vadose zone and hydraulic conductivity on modelling vulnerability of groundwater to pollution in Lakes Naivasha-Elementeita-Nakuru basins	Completed (2007)
27.	Simiyu, Immaculate N. (2003)	Kenyatta University, Nairobi, Kenya	Master of Environmental Planning and Management	Anthropogenic impacts on water sources in Naivasha urban and peri-urban areas	Submission (June/July 2012)
28.	Olaka, Lydia (2003)	Department of Geology, University of Nairobi, Kenya	Master of Science in Geology (Environmental Geology and Management)	Influence of geology and impacts of landuse and climate change on the River Nyando basin	Completed (2005)

29.	Ochola, S.O. (2001)	Department of Geology, University of Nairobi, Kenya	Master of Science in Geology (Environmental Geology and Management)	Biogeochemistry of sediment gases in Lake Nakuru, Kenya.	Completed (2003)
30.	Kinyanjui, D.M. (2000)	Department of Geology, University of Nairobi, Kenya	Master of Science Geology (in Palynology and Micropalaeontology)	Palynology and heavy metals in the sediments of Ondiri Swamp, Kikuyu Township, Kenya: Implications for present and future land use practice	Completed (2003)
31.	Hersi, Mohammed (1999)	Department of Geology, University of Nairobi, Kenya	Master of Science in Geology (Hydrogeology and Groundwater Resource Management)	Hydrogeochemistry of groundwater in Nairobi Area	Completed (2003)
32.	Ogege, J. (1998)	Department of Geology, University of Nairobi, Kenya	Master of Science in Geology (Hydrogeology and Groundwater Resource Management)	Groundwater geochemistry in Busia District, Kenya	Completed (2001)

3. Postdoctoral Fellow Supervision

	Name	Institution	Project title	Year
1.	Dr. Catherine Sang	Kenya	Development Corridors Partnership (DCP) Project	Oct 2018 to Sep 2020
2.	Dr. Tobias Nyumba	Kenya	Development Corridors Partnership (DCP) Project	Oct 2018 to Sep 2020
3.	Dr. Afusat Jagun Jubril	Nigeria	CIRCLE Programme	Jan to Dec 2017
4.	Dr. Hannah Karuri	Kenya	CIRCLE Programme	Jan to Dec 2015

4. External Examination

External Examiner (EE) for the Institute of Mining and Mineral Processing, South Eastern Kenya University, 2016-2019.

Externally Examined Theses:

	Name	Institution	Degree Level	Thesis Title	Year
1.	Gijs De Cort	Universiteit Gent, Belgium	Ph.D.	Holocene Climate Reconstruction in East Africa, based on Multi-Proxy Analysis of Lake Sediments	May 2016
2.	John Mkungu	The Nelson Mandela African Institution of Science and Technology (NM-AIST), Tanzania	Ph.D.	The Capability of Available Natural Local Materials for Remediation of Fluoride Rich Waters	Dec 2016

3.	Mr. Eliapenda Elisante	The Nelson Mandela African Institution of Science and Technology (NM-AIST), Tanzania	Ph.D.	Biogeochemical Composition and Nitrate Transformation Processes of Groundwater Along Slopes of Mount Meru in Meru District Council, Tanzania	April 2016
4.	Sam Kagwisagye	Dundalk Institute of Techology, Ireland	Ph.D.	Sourcing of Sustainable Groundwater for Rural Water Supplies: An Assessment of a Weathered Crystalline Rock Aquifer System in Tte Western Part of Central Uganda	Oct 2014
5.	Biryabarema, M.	Makerere University, Uganda	Ph.D.	The influence of soil, bedrock and groundwater characteristics on municipal waste dumping in Kampala city and surrounding areas	Sep 2000
6.	Kasaka, Moses	Makerere University, Uganda	M.Sc.	Contribution by Former Copper Smelting on Walukuba Hill to the Heavy Metal Loading in Stream Sediments/Soil and Water in the Napoleon Gulf Wetland of Lake Victoria, Jinja, Eastern Uganda	Oct 2009

12. INTERNATIONAL AND NATIONAL COLLOQUIA

1. Papers Presented

1. West Africa: Integrated Management of Fresh, Brackish Water Lakes and Lagoons and the Need for their Sustainable Development, Abidjan, Cote d'Ivoire, 16-17th January 2019. [Kenya National Integrated Lake Basin Management Strategy – An Overview.](#)
2. National Integrated Lake Basin Management Strategy – Stakeholder Workshop, 9 January 2019, Kisumu, Kenya. Paper presented: [Kenya National Integrated Lake Basin Management Strategy – An Overview.](#)
3. “Enhancing conjunctive management of surface and groundwater resources in selected transboundary aquifers: Case study for selected shared groundwater bodies in the Nile Basin” -- The Nile Basin Initiative / GEF - 12-13 December 2018, Entebbe, Uganda. Paper presented: [Mount Elgon Transboundary Aquifer – Kenya.](#)
4. The 17th World Lakes Conference, 15-19 October 2018, Ibaraki Prefecture, Japan. [Untangling the management conundrum of Kenyan lakes.](#)
5. The ILBM Strategy Validation Workshop, Nairobi, Kenya, 20-21 August 2018. Paper presented: [Kenya National Integrated Lake Basin Management Strategy – An Overview.](#)
6. AFQUA International Conference, National Museums of Kenya, Nairobi, Kenya, 14-22 July 2018. Paper presented: [Africa Quaternary Research in Support of Sustainable Development – focus on East Africa.](#)
7. International Conference on “Trade not Aid and Sustainable Development”, 7-8 June 2018, Management University of Africa (MUA) South C Campus. Paper presented: [Climate Adaptation Partnerships and Sustainable Development: Research into Action Partnerships.](#)
8. CEAC Symposium, 26 May 2017, CBPS, UON, Nairobi. Paper presented: [Climate Change, Water Scarcity and Food Security in Eastern Africa.](#)

9. The First African Great Lakes International Conference, 2-5 May 2017, Entebbe, Uganda. *Paper presented: The Utility of the Integrated Lake Basin Management (ILBM) approach: A case study of Kenya's internal and transboundary lakes.* **Co-organiser.** Conference Lead – The Nature Conservancy.
10. Gro-for-Good Stakeholder Workshop, 3rd March 2017. Leopard Beach Hotel, Kwale, Kenya. *Paper presented: The geological context for groundwater risk management in Msambweni, Kenya.*
11. 43rd IAH Congress, 25-29 September 2016. Montpellier, France. *Paper presented: An overview of groundwater and sanitation challenges in Kisumu City, Kenya.*
12. REACH Water Security Conference and Pre- and Post Conference Workshops, 7-15 December, 2015. University of Oxford, Oxford, UK. *Paper presented: Kenya Diagnostic Report on Water Security.*
13. AfriWatSan Sustaining urban groundwater-fed water supplies and sanitation systems in Africa Inception Workshop. Hotel Good Rade Dakar, Sénégal 23-26 November 2015. *Paper presented: Shallow Aquifer of Kisumu, Kenya.*
14. PAGES East African LandCover6K Workshop, 22-23 October 2015, British Institute in East Africa, Nairobi, Kenya. *Paper presented: An Overview of Palaeoecological Research in East Africa: Current Status and Future Directions.*
15. CAAST-Net Plus East Africa Regional Workshop on Climate Change Research Collaborations, 29-30 May 2014, Sportsview Hotel, Kigali, Rwanda. *Paper presented: Climate Change Impact, Risks and Vulnerability, Mitigation and Adaptation Strategies in Kenya.*
16. Third IWA (International Water Association) Development Congress and Exhibition: Catalysing Urban Water Transitions, 14-17 October 2013, Kenyatta International Conference Centre, Nairobi, Kenya. *Paper presented: Key Strategic R&D Issues in Africa's Development from the Perspective of Academia.*
17. Workshop on Climate Change Adaptation (CCA) in Africa, 11-12 October 2013, Febe Hotel, Yaounde, Cameroon. Implemented by NASAC and Leopoldina; Hosted by the Cameroon Academy of Sciences; Funded by the German Federal Ministry of Education and Research. *Paper presented: State-of-the-art Climate Change Impact Expectations for Africa in Urban and Coastal Areas.*
18. The 2nd ISARM Pilot Course, 9-10 December 2010 at UNESCO Headquarters, Paris, France. *Paper discussed: The Transboundary Aquifers of Kenya: Their Characteristics, Status, Management, and Legislative, Socio-economic and Political Contexts for their Wise and Sustainable Use – Case Study of the Kilimanjaro Aquifer (Invited Keynote Paper).*
19. Ministry of Water and Irrigation National Consultative Workshop on Research in the Water Sector, 5th May 2010, Utalii Hotel, Nairobi, Kenya. *Paper presented: Anthropogenic and Natural Threats to Groundwater Resources in the Central Kenya Rift arising from Climate Change and Geology.*
20. National Launch of IYPE and 12th Geological Society of Kenya Conference, 17-19 March 2009, PanAfric Hotel, Nairobi. *Paper presented: Comparative Geochemistry of Surface and Groundwaters in the Central Kenya Rift: A Preliminary Assessment.* **Co-organiser.**
21. Climate Change and Adaptation: Mainstreaming Climate Change Adaptation into Development Policies in East Africa (WWF_EARPO, ACTS and ATPS), 14-16 October 2008, Silver Springs Hotel, Nairobi, Kenya. *Paper presented: Vulnerability Assessment of Freshwater Ecosystems to Climate Change in East Africa. (Invited Keynote Paper).*
22. International Conference on Groundwater and Climate in Africa, 24-28 June 2008, Hotel Speke Munyonyo, Kampala, Uganda. *Paper presented: Holocene palaeohydrology,*

groundwater and climate change in the Lake Basins of the Central Kenya Rift. (Invited Keynote Paper).

23. International Geosphere-Biosphere Programme (IGBP) Congress, 05 - 09 May 2008, Cape Town International Convention Centre, Cape Town, South Africa. *Paper presented: Africa: Palaeo-perspectives on water and land cover with emphasis on eastern Africa (Invited Keynote Paper).*
24. MAWARI Project Workshop, 20-24 November 2007, Addis Ababa University, Addis Ababa, Ethiopia. *Paper presented: Comparative Geochemistry of Surface and Ground Waters in the Central Kenya Rift: A Preliminary Assessment.*
25. International Symposium on Advances in Tropical Aquatic Science Research and Management in Kenya, Kenya-Belgium VLIR Programme/AQUA Project (Free University of Brussels, Belgium and University of Nairobi, Kenya), 9th to 12th February 2007, Mombasa Beach Hotel, Mombasa, Kenya. *Paper presented: Use of Foraminifera for Detection of Climate Change.*
26. Workshop on Disaster Risk Reduction Strategy for Kenya, 26th October 2006, Utalii College, Nairobi, Kenya. *Presentation: Reduce Loss of Life, Livelihoods and Property.*
27. Inter Academy Panel (IAP) Water Programme Workshop, 16-18 August 2006, Pretoria, South Africa. *Papers presented: Water-Related Environmental Problems in Agriculture in the Lake Victoria Basin; Climate Change and Water Resources.*
28. Fifteenth Climate Outlook Forum for the Greater Horn of Africa (GHACOF15), 2-4th March 2005, Mombasa, Kenya. *Paper presented: The interactions between the coastal zone, the oceans and the inland freshwater resources of GHA.*
29. Policy Consultation Workshop on "Vulnerability to Climate Stress – Local and Regional Perspectives" held at ICRAF, Nairobi, Kenya, January 27-28th 2005. CICERO, ACTS and IIED-UK. *Paper presented: Climate change, malaria and cholera in Lake Victoria basin.*
30. 2nd AIACC Africa Regional Workshop, Dakar, Senegal, March 22-29, 2004. *Paper presented: Climate and hydrological variability and extremes in Lake Victoria basin.*
31. Regional Workshop on Research for Sustainable Water Resources in East African Rift Valley, Addis Ababa, Ethiopia, 2-29 November, 2001. *Paper presented: Situational analysis of pollution and management in the Nairobi River Basin. Volume des Contributions.*
32. Enhancement of Productivity and Sustainability of Urban/Peri-Urban Agriculture (UPA) through Efficient Management of Urban Waste, UN Habitat, Nairobi, 8-9 October 2001. *Paper presented: Potential uses of urban and peri-urban rivers for agriculture.*
33. PAGES PEP III Conference on Past Climate Variability through Europe and Africa, Aix-en-Provence, France, 27-31 August 2001. *Paper presented: START/PAGES activities in sub-Saharan Africa, Abstracts Vol. pp.125-126.*
34. IDEAL Second International Symposium, Club Makokola, Malawi, 10th to 13th January, 2000. **Co-organiser.** *Paper presented: Late Holocene palaeoenvironmental record of Kiluli Swamp, Mount Kenya, and its regional context.*
35. Saline-Alkaline Lakes in Eastern and Southern Africa Workshop. Nairobi, Kenya, 24th to 27th September, 2000. Funded by German Exchange Programme (DAAD) and UNESCO. **Co-organiser.** *Paper presented: Physico-chemical processes in the saline alkaline lakes of Kenya.*
36. IPCC Working Group II Africa Regional Expert Meeting: Third Assessment Report (TAR) "Climate Change: Impacts, Adaptation and Vulnerability", Rabat, Morocco, 2 to 6 August 1999. *Paper presented: Vegetation changes over palaeo time scales in Africa (invited paper).*
37. The 8th Conference on the Geology of Kenya, Geological Society of Kenya, 24-26 March 1999. *Paper presented: An interbasinal study of the sedimentology of late Holocene*

sediments in the rift valley Lake Turkana, Kenya (with E.O. Odada). Programme and Abstracts Vol., p. 19.

38. 3rd PACOM Meeting, Nairobi, Kenya, 31 August 1998. *Paper presented: New perspectives on late Quaternary palaeoenvironments of East Africa (invited paper).*
39. PAGES Open Science Meeting, London, UK, April 1998. *Paper presented: Highlights of research activities at the PAGES Africa Regional Site, Nairobi, Kenya.*
40. Second Workshop on Global Palaeoenvironmental Data, Boulder, Colorado, USA, 9 to 12 February 1998. *Paper presented: Problems and Solutions for Developing Countries: Experiences at the START Regional Office.*
41. Miombo Network Workshop on Land Use, Lusaka, Zambia, 27 October to 1 November 1997. *Paper presented: Temporal dynamics of late Quaternary vegetation change in East and Southern Africa.*
42. IGBP-DIS/WDC Workshop on Global Environmental Data Management, Boulder, Colorado, USA, 8 to 11 April 1997. *Papers presented: a) Choosing areas of highest priority in palaeo-research. b) Extending data systems to developing countries: Africa.*
43. Continental Signals of Palaeomonsoon Dynamics in Africa: Inter-Hemispheric Perspectives, Workshop, Siwa Oasis, Egypt, 11 to 22 January 1997. *Paper presented: Long-term temporal characteristics of palaeomonsoon dynamics in equatorial Africa (with E.O. Odada).*
44. International Geological Correlation Program (IGCP 374) meeting, London, 14 to 15 October 1996. *Paper presented: Tropical terrestrial deglacial records compared with polar ice and deep sea records (with E. O. Odada).*
45. Global Environmental Change: Implications for Southern Africa. Regional Conference, 24 to 26 April, 1995. *Paper presented: Late Quaternary temporal characteristics in an equatorial high-altitude lake: Sacred Lake, Mount Kenya. Abstract vol. pp. 104-105.*
46. Invited paper, Union Symposium on 'The Regulation of the Planet', European Union of Geosciences, Strasbourg, 9 to 13 April, 1995. *Paper presented: The role of the tropics in the global carbon cycle: a late Quaternary perspective (with F.A. Street-Perrott, R.A. Perrott, D.D. Harkness, A. Parkes, Y. Huang and G. Eglinton) (invited paper).*
47. IDEAL Symposium on the Palaeoclimatology of East African Lakes, Jinja, Uganda, February 1993. *Paper presented: Impact of natural long-term variations in atmospheric CO₂ on the East African mountains (with R.A. Perrott, F.A. Street-Perrott, and D.D. Harkness).*
48. Diatom Palaeoecology Conference, Amsterdam, Netherlands, June, 1992. *Paper presented: Diatom assemblages and environmental changes in the montane rainforest lakes of Mount Kenya, Kenya (with L. Ben Khelifa, F.A. Street-Perrott and R.A. Perrott).*

2. Meetings Attended

49. Stakeholders Consultative Meeting on Windpower and Biodiversity Strategic Environmental Assessment (SEA) for Kenya. 12 March 2019, National Museums of Kenya, Nairobi, Kenya.
50. Wash Climate Risk Assessment Workshop, 7 March 2019, Lodwar, Turkana County, Kenya.
51. The Integrated Lentic-Lotic Basin Management (ILBM) Consultative Workshop, 14-19 January 2019, Abidjan, Cote d'Ivoire.
52. The 5th Annual Meeting of the Hominin Sites and Paleolakes Drilling Project (HSPDP), 25-27 January 2019, Biosphere 2, University of Arizona, USA.
53. Regional Inception Meeting and Stakeholder Consultation Workshop for the Nile Basin Initiative (NBI) Project Preparation Document for "Enhancing Conjunctive Management of

- Surface and Groundwater Resources in Selected Transboundary Aquifers” Project. 12-13 December 2018, Imperial Botanical Beach Hotel, Entebbe, Uganda. **National Consultant.**
54. The Royal Society Africa Capacity Building Initiative Award Holders Meeting, 2-4 December 2018, Framissima Palm Beach Hotel, Saly, M'bour, Senegal. **Principal Investigator, Kenya.**
 55. Development Corridors Partnership (DCP) Project launch meeting, 23 November to 2 December 2018, Dar es Salaam, Tanzania. **Principal Investigator Kenya.**
 56. AfriWatSan Project – 4th Annual International Consortium Workshop, 9-13 July 2018, Dakar, Senegal. **Principal Investigator.**
 57. Kenya National Lake Basin Management Strategy Validation Workshop, 20-21 August 2018, Intercontinental Hotel, Nairobi, Kenya. Organised by Ministry of Water and Sanitation and ILEC Kenya. **Lead Organiser.**
 58. International Consortium Building Workshop – Plastic Pollution in Kenya, 27 June 2018, Chiromo Conference Centre, University of Nairobi, Nairobi, Kenya. Organised by University of Leicester and University of Nairobi.
 59. REACH Turkana Stakeholder Meeting on Climate Resilience, Water Services and Poverty in Kenya, Thursday 15 February, 2018, The Cradle, Lodwar Town. **Lead Organiser & Kenya Country Director**
 60. Programme for CIRCLE (Climate Impacts Research Capacity and Leadership Enhancement) Mentors and Supervisors, 17-19 May 2017. Organised by Association of Commonwealth Universities (ACU), African Academy of Sciences (AAS) and Vitae UK. Funded by UK DFID.
 61. The Woody Weeds Meeting, 13-18 February 2017, Nakuru, Kenya. A meeting of the Woody Invasive Alien Species in Eastern Africa Project.
 62. Africa-Asia Conclave on Loss and Damage due to Climate Change, 25-26 August 2016, Nairobi, Kenya. Organised by Centre for Science and Environment, India.
 63. NASAC communication event for the Climate Change Adaptation and Resilience in Africa Policymakers Booklet, 4-5 July 2016, Henessy Park Hotel, Ebene Cybercity, Mauritius.
 64. WISE-UP Project, Third Stakeholders Forum Meeting, 18 March 2016, Intercontinental Hotel, Nairobi, Kenya.
 65. WISE-UP Project, Third Decision-Maker's Forum Meeting, 17 March 2016, Intercontinental Hotel, Nairobi, Kenya.
 66. Early Warning Systems for Improved Human Health and Resilience to Climate-Sensitive Vector Borne Diseases in Kenya: Data Sharing Workshop, 7-12 March 2016, Queen's Garden Hotel, Eldoret, Kenya.
 67. Groundwater Risk Management for Growth and Development: End of Year 1 Project Workshop, 22-24 February 2016, Casa Ziwa, Msambweni, Kenya.
 68. GEOEACE - Geo-East Africa Conference and Exposition. Geological Society of Kenya, 6-7 September 2014, Laico Grand Regency Hotel, Nairobi, Kenya.
 69. APANAC-IANAS Water Security in Africa and the Americas Workshop. 15-18 October, 2014, Panama City, Panama
 70. WISE-UP to Climate: Water Infrastructure Solutions from Ecosystem Services. 1st Stakeholder Workshop. 17-19 March 2014, Ocean Beach Resort and Spa, Malindi, Kenya.
 71. TWAP African Lakes Consultative Meeting, 17-20 February, 2014, UNEP, Nairobi, Kenya.
 72. WHO/TDR/IDRC - Climate Change Project Inception Workshop. 19-22 January, 2014. Morendat Training and Conference Centre, Naivasha, Kenya.

73. UNESCO Strategic and High-Level Meeting on Water Security and Cooperation, 11-13 September, 2013, Kenya School for Monetary Studies, Nairobi, Kenya. **Co-Chair.**
74. UNEP-DEPI EBA Mountain Project Learning Exchange Workshop, 1-4 July 2013, Mbale, Uganda. **Technical Expert.**
75. Final Stakeholders Workshop for "Adapting to CLimate Change Induced Water Stress in the Nile River Basin" Project. UNEP. 27-28 May 2013, Nairobi, Kenya.
76. Inception Workshop for Preparation of National Policy on Groundwater Resources Management, 5th February 2013. Organised by the Ministry of Water and Irrigation. Hosted by the Kenya Water Institute, Nairobi, Kenya. **Resource Person.**
77. Two days research meeting to plan for a research project under "Heritage Conservation and Management", Dar es Salaam, Tanzania, 10-12 December 2012.
78. KNAS Workshop on Strategic Plan Review, 12-14 October 2012, Garden Hotel, Machakos, Kenya. **Resource Person.**
79. International Workshop on Scientific Drilling in Lake Challa: the Climatic and Ecological History of Equatorial East Africa, 10-13 September 2012, Nairobi and Taveta, Kenya. Sponsored by the International Continental Scientific Drilling Programme. Hosted by the National Museums of Kenya. DeepCHALLA Project.
80. Scientific Conference of the NASAC-KNAW Collaboration Initiative on "Water Management Issues in Africa", 28th to 31st March 2012, Reduit, Mauritius.
81. Institute for Climate Change and Adaptation, CBPS, UoN Workshop, 23rd to 25th March 2012. **Curriculum Development for Institute Programmes.**
82. Workshop on the Development of Integrated Lake Basin Management (ILBM) Platform. Imperial Hotel, Kisumu, 7th December 2011. **Resource Person, ILEC.**
83. US-NSF and PAGES workshop on Continental Drilling in the East African Rift Lakes: A Strategic Planning Workshop, 14th to 16th November 2011, Renaissance Hotel, Providence, Rhode Island, USA.
84. Kenya National Consultation for the Groundwater Resources Exploration and Capacity Building to Combat Drought in the Horn of Africa, 9th to 10th November 2011, Laico Hotel, Nairobi, Kenya. Organised by Government of Kenya and UNESCO Nairobi Office.
85. Consultative workshop on Integrated Lake Basin Management (ILBM) and ILBM Platform, 1st to 5th August 2011, Pune, India. **Resource Person, ILEC.**
86. NASAC-KNAW Conference and 5th TWAS-ROSSA Young Scientists Conference. 23rd to 27th February 2011, Hilton Hotel, Nairobi. **Co-organiser (Hon. Secretary).**
87. Integrated Lake Basin Management (ILBM) and Sanitation Challenges in the Kisumu-Winam Bay Region and in Lake Victoria, 14th February 2011, Imperial Hotel, Kisumu, Kenya.
88. The 5th East African Community Petroleum Conference and Exhibition, 2nd to 4th February 2011, Serena Hotel, Kampala, Uganda.
89. Launch of the Project on the Development of the National Water Master Plan, Wednesday 27th October 2010, Laico Grand Regency Hotel, Nairobi, Kenya. Ministry of Water and Irrigation.
90. Stakeholder Consultative Meeting on Mutual Recognition of Professional Qualifications, 7th September 2010, Crowne Plaza Hotel, Nairobi, Kenya. Organised by Republic of Kenya – Ministry of the East African Community.
91. NASAC Water Programme Launch Meeting, 2nd to 3rd August 2010, Hilton Hotel, Nairobi, Kenya. Organised by NASAC.

92. Makueni Pilot Project Policy Briefing Meeting, May 12th 2010, United Kenya Club, Nairobi, Kenya. **Project Scientist.**
93. Parliamentary Committees Sensitization Workshop on Climate Change, 8-9th October 2009, Mombasa Continental Hotel, Mombasa, Kenya. **Resource Person.**
94. Pre-AMCEN African Climate Change Scientists Meeting, 21-22 May 2009, ICRAF, Nairobi. Consultative Meeting. **Resource Person.**
95. Global Change Research in Africa (GCR) Steering Committee Meeting, 19-21 June 2006, Pretoria, South Africa.
96. Kenya National Academy of Sciences (KNAS) 1st Strategic Planning Workshop, 11-13 May 2006, Garden Hotel, Machakos, Kenya
97. IPCC Working Group I Fourth Assessment Report, Third Lead Authors Meeting, 13-15 December 2005, University of Canterbury, Christchurch, New Zealand.
98. Workshop on Towards Market-Sensitive Training and Problem-Oriented Research Programmes in Environmental Chemistry, 6th September 2006, College of Insurance, Nairobi, Kenya. Hosted by Department of Chemistry, University of Nairobi.
99. African Global Change Research Organising Meeting, 23-24 June 2005, Pretoria, South Africa.
100. University of Nairobi Bachelor of Education (Science) Distance Learning Reviewers/Editors Workshop, Greenhills Hotel, Nyeri, 14th to 18th February, 2005.
101. Stakeholders Meeting on IGAD Environmental Outlook Process, 16-17 December 2004, UNEP, Nairobi, Kenya.
102. Remote Sensing and GIS Training Workshop. Held at Regional Centre for Mapping of Resources for Development, Nairobi, Kenya, 22nd October to 5th November 2004. Sponsored by START. **Co-organiser.**
103. IPCC Working Group I Fourth Assessment Report First Lead Authors Meeting, Abdus Salam International Centre for Theoretical Physics, Trieste, Italy, September 26-29, 2004.
104. Ecosystem Outlook for the Lake Victoria Basin Workshop, 2-4th September, 2004. Pan African START Secretariat (PASS). Sponsored by PASS/UNEP. **Organiser.**
105. National Workshop on Science and Technology Park Development for Sustainable Industrial Growth. Holiday Inn, Nairobi, Kenya, June 30th 2004. **Rapporteur.**
106. University of Nairobi Distance Learning Reviewers Workshop, Matuu, Kenya, June 3-8, 2004.
107. Pan African Implementation and Partnership Conference on Water, Addis Ababa, Ethiopia, December 8-13, 2003.
108. International Young Scientists Global Change Conference, Trieste, Italy, November 17-19, 2003. **Co-organiser.**
109. PAGES meeting on High Latitude Palaeoenvironments, Moscow, Russia, May 16-17, 2002.
110. The East African Lakes - IDEAL Project. The African Pollen Database (APD) and SEARCH Workshop. Nairobi, Kenya, 22-26 October 2001. **Co-organiser.**
111. Global Change Open Science Conference, Amsterdam, The Netherlands, 10-13 July 2001.
112. Climate Variability in Africa. First International Workshop, 9-12 April 2001, Enugu, Nigeria.
113. Freshwater Resources in Africa Workshop, held at UNEP Headquarters, Nairobi, Kenya, 26-29 October 1999. **Local Organising Committee.**

114. The Environmental Background to Hominid Evolution in Africa: Quaternary and Holocene sedimentary records in Central Africa and their palaeoenvironmental interpretation. Session P10 Workshop, INQUA XV International Congress, Durban, South Africa, 3rd to 11th August 1999. **Session Organiser.**
115. All World Data Conference, ICSU Panel on World Data Centers, Asheville, NC, USA, 6-8 November, 2000.
116. GIS/Remote Sensing in Spatial Modelling and Environmental Training Workshop. Maputo, Mozambique, 13th to 18th July, 2000. Funded by PASS/START/Miombo Network. **Co-organiser.**
117. Workshop on South Asian Palaeoenvironments. Pune, India, 4-5 February 2000.
118. East and Southern Africa Workshop in Geomedicine (ESARWG), 23 to 27 June 1999, Nairobi, Kenya.
119. IGBP SAC V Meeting held at UNEP Headquarters, Nairobi, Kenya, 1-7 September, 1998. **Local Organising Committee.**

13. PUBLICATIONS

a) Refereed Journal Articles

No.	Reference	Date
1.	Kanoti, J.R., Olago, D. , Opiyo, N., Nyamai, C., Dindi, E. and Kuria, Z. (2019) Characterization of major ion chemistry and hydro-geochemical processes in Mt. Elgon trans-boundary aquifer and their impacts on public health. <u>Journal of Environment and Earth Science</u> , Vol.9, No.4: 38-45. DOI: 10.7176/JEES.	30 April 2019
2.	Xu, Y., Seward, P., Gaye, C., Lin, L. and Olago, D.O. (2019) Preface: Groundwater in Sub-Saharan Africa. <u>Hydrogeology Journal</u> , https://doi.org/10.1007/s10040-019-01977-2	27 Apr 2019
3.	Kanoti, J.R., Olago, D. , Opiyo, N., Nyamai, C., Dulo, S. and Ayah, R. (2019) Microbial and physical chemical indicators of groundwater contamination in Kenya: a case study of Kisumu aquifer system, Kenya. <u>Journal of Water Resource & Protection</u> , 11: 404-418. https://doi.org/10.4236/jwarp.2019.114024	Online 26 Apr 2019
4.	Mnyika, G.M. and Olago, D.O. (2019) The potential for CO ₂ geosequestration in Kenya: a suitability assessment of the Lamu Basin. <u>Africa Journal of Physical Sciences</u> , Vol. 3: 28-38. http://journals.uonbi.ac.ke/index.php/ajps/article/view/1798/1421	Online 28 Feb 2019
5.	Ferrer, N., Folch, A., Lane, M., Olago, D. , Odida, J. and Custodio, E. (2019) Groundwater hydrodynamics of an Eastern Africa coastal aquifer during the recent La Niña 2016-17 drought. <u>Science of the Total Environment</u> 661: 575–597. https://doi.org/10.1016/j.scitotenv.2019.01.198 .	Online 16 Jan 2018
6.	Olago, D.O. (2018) Constraints and solutions for groundwater development, supply and governance in urban areas in Kenya. <u>Hydrogeology Journal</u> , 27(3), 1031-1050. https://doi.org/10.1007/s10040-018-1895-y .	Online 15 Dec 2018; Print 11 May 2019

7. Mackinnon, E., Ayah, R., Taylor, R., Owor, M., Ssempebwa, J., **Olago, D.**, Kubalako, R., Tal Dia, A., Gaye, C., Campos, L.C. & Fottrell, E. (2018): 21st century research in urban WASH and health in sub-Saharan Africa: methods and outcomes in transition. International Journal of Environmental Health Research, <https://doi.org/10.1080/09603123.2018.1550193>. Online 13 Dec 2018
8. Gannon, K.E., Conway, D., Pardoe, J., Ndiyoi, M., Batisani, N., Odada E., **Olago, D.**, Opere, A., Kgosietsile, S., Nyambe, M., Omukuti, J. & Siderius, C. (2018) Business experience of floods and drought-related water and electricity supply disruption in three cities in sub-Saharan Africa during the 2015/2016 El Niño. Global Sustainability 1, e14, 1–15. <https://doi.org/10.1017/sus.2018.14>. Online 6 Dec 2018
9. Muhati, G.L., **Olago, D.** and Olaka, L. (2018) Past and projected rainfall and temperature trends in a sub-humid montane forest in northern Kenya based on the CMIP5 model ensemble. Global Ecology and Conservation. <https://doi.org/10.1016/j.gecco.2018.e00469>. Online 1 Nov 2018
10. Hirpa, F.A., Dyer, E., Hope, R., **Olago, D.O.** and Dadson, S.J. (2018) Finding sustainable water futures in data-sparse regions under climate change: Insights from the Turkwel River basin, Kenya. Journal of Hydrology: Regional Studies 19:124-135. <https://doi.org/10.1016/j.ejrh.2018.08.005> 15 Sep 2018
11. Wetende, E., **Olago, D.** and Ogara, M. (2018) Perceptions of climate change variability and adaptation strategies on smallholder dairy farming systems: Insights from Siaya Sub-County of Western Kenya. Environmental Development 27: 14-25. <https://doi.org/10.1016/j.envdev.2018.08.001> 14 Sep 2018
12. Muriithi, G.M, **Olago, D.O.**, Ouma, G.O, Oriaso, S.O. (2018). Reliability of indigenous traditional knowledge and conventional weather forecasts in the face of climate change and variability in Baringo County, Kenya. International Journal of Recent Scientific Research, 9(7): 28136-28141. DOI: <http://dx.doi.org/10.24327/ijrsr.2018.0907.2401> July 2018
13. Kaoga, J., Ouma, George, **Olago, D.** and Ouma, Gilbert (2018) The shrinking grazing fields of the Maasai land under the changing climate system in Kajiado County, Kenya. International Journal of Economics and Sustainable Development, 9(14):126-131. July 2018
14. Amadi, J.A., **Olago, D.O.**, Ong'amo, G.O., Oriaso, S.O., Nayingi, M., Nyamongo, I.K. and Estambale, B.B.A. (2018) Sensitivity of vegetation to climate variability and its implications for malaria risk in Baringo, Kenya. PLoS ONE 13(7): e0199357. <https://doi.org/10.1371/journal.pone.0199357>. 5 July 2018
15. Kaoga, J., Ouma, George, **Olago, D.** and Ouma, Gilbert (2018) The evidence of changing rainfall patterns in Kajiado County, Kenya. International Journal of Innovative Research and Development, 7(6):223-228. DOI No.: 10.24940/ijird/2018/v7/i6/JUN18O83 June 2018
16. Amadi, J.A., Ong'amo, G.O., **Olago, D.O.**, Oriaso, S.O., Nyamongo, I.K. and Estambale, B.B.A. (2018) Mapping potential *Anopheles gambiae* s.l. larval distribution using remotely sensed climatic and environmental variables in Baringo, Kenya. Medical and Veterinary Entomology (2018), doi: [10.1111/mve.12312](https://doi.org/10.1111/mve.12312). 21 Jun 2018
17. Muhati, G.L., **Olago, D.** and Olaka, L. (2018) Participatory scenario development process in addressing potential impacts of anthropogenic activities on the ecosystem services of Mt. Marsabit Forest, Kenya. Global Ecology and Conservation. <https://doi.org/10.1016/j.gecco.2018.e00402> Jun 2018

18. Amadi, J.A., **Olago, D.O.**, Ong'amo, G.O., Oriaso, S.O., Nyamongo, I.K. and Estambale, B.B.A. (2018) "We don't want our clothes to smell smoke": changing malaria control practices and opportunities for integrated community-based management in Baringo, Kenya. BMC Public Health (2018) 18:609. <https://doi.org/10.1186/s12889-018-5513-7>. May 2018
19. Muhati, G.L., **Olago, D.** and Olaka, L. (2018) Quantification of carbon stocks in Mount Marsabit Forest Reserve, a sub-humid montane forest in northern Kenya under anthropogenic disturbance. Global Ecology and Conservation. <https://doi.org/10.1016/j.gecco.2018.e00383>. 1 Mar 2018
20. De Cort, G., Mees, F., Ryken, E., Christian, W., Creutz, M., Haug, G., **Olago, D.**, Renaut, R. and Verschuren, D. (2018) Multi-basin depositional framework for high-resolution moisture-balance reconstruction at Lake Bogoria (Central Rift Valley, Kenya). Sedimentology. doi: 10.1111/sed.12442 Feb 2018
21. Muriithi, G., **Olago, D.**, Ouma, G., Oriaso, S. (2018). Long-term observed Precipitation Trends in Arid and Semi-arid Lands, Baringo County, Kenya. Journal of Agricultural Economics and Rural Development, 4(1): 326-334. Jan 2018
22. Rob Marchant, Suzi Richer, Oliver Boles, Claudia Capitani, Colin J. Courtney-Mustaphi, Paul Lane, Mary E. Prendergast, Daryl Stump, Gijs De Cort, Jed O. Kaplan, Leanne Phelps, Andrea Kay, **Dan Olago**, Nik Petek, Philip J. Platts, Paramita Punwong, Mats Widgren, Stephanie Wynne-Jones, Cruz Ferro-Vázquez, Jacqueline Benard, Nicole Boivin, Alison Crowther, Aida Cuní-Sanchez, Nicolas J. Deere, Anneli Ekblom, Jennifer Farmer, Jemma Finch, Dorian Fuller, Marie-José Gaillard-Lemdahl, Lindsey Gillson, Esther Githumbi, Tabitha Kabora, Rebecca Kariuki, Rahab Kinyanjui, Elizabeth Kyazike, Carol Lang, Julius Lejju, Kathleen D. Morrison, Veronica Muiruri, Cassian Mumbi, Rebecca Muthoni, Alfred Muzuka, Emmanuel Ndiema, Chantal Kabonyi Nzabandora, Isaya Onjala, Annemiek Pas Schrijver, Stephen Rucina, Anna Shoemaker, Senna Thornton-Barnett, Geert van der Plas, Elizabeth E. Watson, David Williamson, David Wright (2018) Drivers and trajectories of land cover change in East Africa: Human and environmental interactions from 6000 years ago to present, Earth-Science Reviews, 178: 322-378. ISSN 0012-8252, <https://doi.org/10.1016/j.earscirev.2017.12.010> Jan 2018
23. Siderius, C., Gannon, K.E., Ndiyoi, M., Opere, A., Batisani, N., **Olago, D.**, Pardoe, J. and Conway, D. (2017) Hydrological response and complex impact pathways of the 2015/2016 El Niño in Eastern and Southern Africa. Earth's Future, 5.<https://doi.org/10.1002/2017EF000680>. Oct 2017
24. Muriithi, G.M., **Olago D.O.**, Ouma, G.O. and Oriaso, S.O. (2017) Livestock response to long-term precipitation variability in the arid and semi-arid lands of Baringo County, Kenya. Livestock Research for Rural Development. Volume 29, Article #235. <http://www.lrrd.org/lrrd29/12/muri29235.html> 2 Dec 2017
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30. Sier, M., Langereis, C., Dupont-Nivet, G., Feibel, C., Joordens, J., van der Lubbe, J., Beck, C., **Olago, D.**, Cohen, A., WTK Science team members (2017) The top of the Olduvai Subchron in a high-resolution magnetostratigraphy from the West Turkana core WTK13, hominin sites and Paleolakes Drilling Project (HSPDP). Quaternary Geochronology, 42:117-129. 26 Aug 2017
31. Alemu A., **Olago, D.**, Wandiga, S., Omondi, P., Oriaso, S. (2017) Temperature Change Trends and Perceptions in Kolla Temben District, Tigray Regional State, Northern Ethiopia. International Journal of Interdisciplinary Research and Innovations, 5(3):157-163. Jul 2017
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34. Loomis, S.E., Russell, J.M., Verschuren, D., Morrill, C., De Cort, G., Sinninghe-Damste, J.S., **Olago, D.**, Eggermont, H., Street-Perrott, F.A. and Kelly, M.A. (2017) The tropical lapse rate steepened during the Last Glacial Maximum. Sci. Adv. 2017;3: e1600815. 27 Jan 2017
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13. CERTIFICATION

I, the undersigned, certify that to the best of my knowledge and belief, these data correctly describe me, my qualifications, and my experience.

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Signature

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Date

14. REFEREES

Professor Eric O. Odada Professor of Geology	Department of Geology, University of Nairobi, PO Box 30197-00100, Nairobi, KENYA Tel: 254-20-4447740; Mobile: 0725-518901 Fax: 254-20-4447740 Email: eodada@uonbi.ac.ke
Professor Norbert Opiyo-Akech Associate Professor of Geology	Department of Geology, University of Nairobi, PO Box 30197-00100, Nairobi, KENYA Tel: 254-20-4449004; Mobile: 0722-768535 Email: opiyo-akech@uonbi.ac.ke
Professor Shem Wandiga Professor of Chemistry	Department of Chemistry, University of Nairobi, PO Box 30197-00100, Nairobi, KENYA Tel: 254-20-4449004; Mobile: 0722816153 Email: sowandiga@iconnect.co.ke ; wandigas@uonbi.ac.ke