

# Prof. Daniel Ochieng' Olago - Curriculum Vitae

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## CURRICULUM VITAE

### 1. PERSONAL DETAILS

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**Name:** Daniel Ochieng' Olago  
**Title:** Prof.  
**Nationality:** Kenyan  
**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)***

**Orcid id:** <https://orcid.org/0000-0001-6080-5802>

#### **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

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#### **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. (First Class Honours), 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"> <li>• <b>Specialisation</b></li> </ul>	<p>Environmental Geoscience</p>
<ul style="list-style-type: none"> <li>• <b>Teaching and Research</b></li> </ul>	<ol style="list-style-type: none"> <li>1. Teaching (University level: BSc., MSc., PhD candidates) and research in the following areas for 25 years: <ul style="list-style-type: none"> <li>• Quaternary Palaeoclimatology and Palaeoenvironments; Geolimnology, Environmental Geology; Sedimentology and Geochemistry; Palaeontology and Palynology; Surface- and ground-water chemistry and dynamics</li> <li>• Human impact on the environment, global change processes, vulnerability and adaptation to climate change: past, present and future.</li> </ul> </li> <li>2. Supervision <ul style="list-style-type: none"> <li>• Supervised to completion – 15 PhD students.</li> <li>• Supervised to completion – 35 Masters students</li> <li>• Supervised 4 Postdoctoral Fellows, 1 other under supervision currently</li> <li>• Supervised a considerable number of undergraduate student projects</li> </ul> </li> <li>3. Publications <ul style="list-style-type: none"> <li>• 107 peer-reviewed journal papers; 21 peer-reviewed book chapters; 12 edited books/Special Journal Issues; 6 refereed articles in proceedings; 10 white papers/briefs, and; 17 significant technical reports.</li> </ul> </li> <li>4. Grants <ul style="list-style-type: none"> <li>• Won over 12 research grants over the past eight years, worth over 30 billion Ksh of which about 20% is directly received by UoN</li> </ul> </li> <li>5. Google Scholar: citations – 5779; h-index – 31; i10 index 66.</li> <li>6. Resource person in a number of short-courses for professionals and postgraduate students (hydrology, lake basin management, environmental management, climate change and adaptation, others)</li> </ol>
<ul style="list-style-type: none"> <li>• <b>Special Skills and Competencies</b></li> </ul>	<ul style="list-style-type: none"> <li>• Proposal writing, report writing, editing and publishing</li> <li>• Data collection, collation, analysis and reporting</li> <li>• Strategic (geo-environmental) assessments and reviews including on geological, climate, water, environmental change and vulnerability/adaptation issues in Africa</li> </ul>

	<ul style="list-style-type: none"> <li>• Planning and organizing of workshops, conferences, meetings, training activities, and activity scheduling</li> <li>• Research project planning, coordination, monitoring and evaluation</li> <li>• Multi-stakeholder interactions and client relationships, e.g. with decision/policy makers and grassroots stakeholders in geo-environmental and climate change issues on the basis of research projects undertaken</li> <li>• Capacity building in global environmental change research, networking and partnership-building between scientists and decision-makers</li> <li>• Budgeting and advocacy</li> <li>• IT competent</li> <li>• Familiar with the policies, laws and regulations that directly or indirectly relate to environmental, water and natural resources and sustainability issues</li> <li>• Evidence-based (geo-environmental) management and policy options and briefs for decision makers.</li> <li>• Mentorship</li> <li>• 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.</li> </ul>
<ul style="list-style-type: none"> <li>• <b>Leadership Roles</b></li> </ul>	<ul style="list-style-type: none"> <li>• Chairman, Department of Earth and Climate Sciences, University of Nairobi, July 2021 to present</li> <li>• Director/Research Director, ICCA, University of Nairobi, July 2020 – present</li> <li>• General Council Member of the Kenya National Academy of Sciences, 2021 - present</li> <li>• General Council Member of the African Academy of Sciences 2020 - present</li> <li>• Director, REACH Kenya Programme, May 2015 - present</li> <li>• Coordinator, Natural/Basic Sciences, ICCA, University of Nairobi, 2012 – 2020</li> <li>• Chairman, Chiromo Campus Club, May 2013 – May 2016</li> <li>• Chairman, Geological Society of Kenya, March 2007 – March 2011 (two consecutive terms)</li> <li>• Vice-Chairman, Geological Society of Kenya, 2006-2007</li> <li>• Member, Executive Committee of the Geological Society of Kenya</li> <li>• Member of Oxford University Clubs Committee, 1991 to 1993.</li> <li>• Member, Worcester College Middle Common Room (MCR) Committee, 1991 to 1992.</li> <li>• Worcester College Representative to Oxford University Graduate Union, 1991 to 1992.</li> <li>• Chairman, Kenya Youth for Christ Missions Support Committee, 1988 to 1990.</li> </ul>

	<ul style="list-style-type: none"> <li>• Chairman, Nairobi University Geology Students Association (NUGSA), 1988 to 1989.</li> <li>• Member, Editorial Board of NUGSA Magazine, 1989.</li> <li>• Chairman, Organization of Nairobi University Science Students, 1988.</li> <li>• Elected Chairman, Nyerere Hall, University of Nairobi, Nov. 1987.</li> <li>• Vice-Captain, Nairobi University swimming team, 1987.</li> <li>• National Youth Service, May 1986 to August 1986.</li> </ul>
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#### **4. PROFESSIONAL POSITIONS, RESPONSIBILITIES, AND ACHIEVEMENTS**

##### **(I) Academic**

- 1) **19/7/2021 to present: Chairman, Department of Earth and Climate Sciences**
- 2) **1/7/2020 to 7/2021: Director, Institute for Climate Change and Adaptation**
- 3) **19/7/2021 to present: Research Director, Institute for Climate Change and Adaptation**
- 4) **25/10/2022 to present: Full Professor of Geology.** Responsibilities as outlined below.
- 5) **3/12/2012 to 25/10/2022: 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, 23 August 2012 to date. I mooted the idea and was the lead proposal developer of the successful proposal that was funded by Open Society Foundation (formerly Open Society Institute) in 2010 for the establishment of the Institute for Climate Change and Adaptation (Est. Nov. 2011) at the University of Nairobi. As a founding member, I was a member of a core team of five that was involved in the strategic planning and fundraising for the institute, offering technical support and strategic direction.
  - Thematic Head – Environment, Water and Ecosystems, Institute for Climate Change and Adaptation, University of Nairobi, August 2012 to date.
  - Teaching and Supervision of undergraduate and postgraduate students in ICCA & Geology.
  - Supervision of postdoctoral fellows: 4 completed, 1 ongoing.
  - Director/Principal Investigator for a number of international research projects run through the UoN – supporting several PhD students, masters students and technical staff, undergraduate projects, and five postdoctoral fellows.
  - Tutor/Mentor for postgraduate students in Dept. of Geology, UoN, 2003 to date and ICCA, 2012 to date.
  - Performance appraisal ranking – “Outstanding” to “Excellent” from 2008 to date.
  - Member, College Curriculum Review Committee, 28 October 2020 to July 2021.
  - Member, College Corruption and Prevention Committee, 30 September 2020 to July 2021.

- Chair, Curriculum Rationalisation and Review Committee, Department of Geology, Mar 2019 – to July 2021.
- Member, University Committee on Double Degree/Dual Awards Programme, UoN, March-May 2019.
- Member, Department of Geology Postgraduate Studies Committee, UoN, 2017 to July 2021.
- Member, Committee Appointed to Identify Candidates for the Position of Director of Research and Extension at the University of Nairobi, Jan/Feb 2016.
- Founding Chief Editor, Africa Journal of Physical Sciences, School of Physical Sciences, University of Nairobi, 2013 to 2021.
- Member, ICCA Postgraduate Committee, UoN, 2013 to 2021.
- Member, CBPS Plagiarism Committee, April 2013 to July 2021.
- Member, CBPS Exhibition Committee, April 2013 to April 2014.

**6) 2003 to 2012: Senior Lecturer, Department of Geology, University of Nairobi, Kenya**

- Mooted the idea and was the lead proposal developer of the successful proposal that was funded by Open Society Foundation (formerly Open Society Institute) in 2010 for the establishment of the Institute of Climate Change and Adaptation (Est. Nov. 2011) and Curriculum Development at the University of Nairobi.
- 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.

**7) 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.

**8) 1992-1995**

- Undergraduate field and laboratory classes in environmental reconstruction techniques, School of Geography, University of Oxford, UK, 1992-1995.

**9) July to September 1998**

- Research Assistant, Department of Geology, University of Nairobi



**(II) Professional**

**1) Feb 2021 to Feb 2024: Chairman, Geologists Registration Board of Kenya**

- a. The Board has responsibility for regulating the activities and conduct of registered geologists in accordance with the functions and powers conferred upon it by the Geologists Registration Act No. 10 of 1993 (Revised 2012).

**2) 2015 to present: Director, REACH Kenya Programme (ICCA-UoN), Nairobi, Kenya**

- a. The 'REACH: Improving Water Security for the Poor' is a seven year (2015 – 2022) programme aimed at improving water security for over five million poor people in Africa and South Asia by delivering world – class science that transforms policy and practice. It's a research-into-action (RIA) programme that addresses the interactions between water security risks and poverty reduction across three intersecting dimensions: resource sustainability, inclusive services and sustainable growth. <https://reachwater.org.uk/>
- b. In-charge of the Kenya Programme which has two observatories (1) Turkana County – small towns in fragile environments (2) Kitui County – Building water secure institutions; working closely with RIA partners UNICEF Kenya and International Water Association (IWA).
- c. Deliver interdisciplinary, risk-based science to promote water security for the poor; Build research and education networks and capacity in Africa and Asia; Increase demand for science to inform policy that improves water security for the poor.
- d. Manage direct Kenya budget of £1,000,000 over 7 years and Kenya-based personnel.
- e. UK DFID Programme Score in 2019: A++ (top score).

**3) May 2013 to May 2016: Chairman, Chiromo Campus Club (CCC)**

- a. Overall responsibility for the smooth and efficient running of the CCC.
- b. Achievements: grew membership base from 212 to 303 and annual revenues from Ksh.7 to 12 million; activated standing committees; established procurement system, cash book maintenance, new Point of Sale system, direct payments through Mpesa to bank account; reduced credit cap to improve cash flows; restored the compound fence; renovated kitchen and washrooms; installed piped music system and WiFi system.

**4) 2007 to 2011: Chairman, Geological Society of Kenya**

- a. Overall management of the affairs of the Society
- b. Fundraising and budgetary oversight
- c. Advocacy and public education
- d. Promotion of the members' welfare through engagement with Government, Public and Private Sectors
- e. Organisation of Geological Society of Kenya Conferences
- f. Advice to Government and private sector actors

- g. Development of first-ever Strategic Plan (2007-2011)
- h. Initiated process for the publication of the Journal of the Geological Society of Kenya
- i. Activated Fellowship Programme for the Geological Society of Kenya
- j. Activated Corporate Membership class resulting in greatly increased funds for the Society

5) **2006 to 2007: Vice Chairman, Geological Society of Kenya**

6) **1997 to 2006: Programme Officer, Pan African START Secretariat, Nairobi, Kenya**

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

7) **Earlier Short-Term Contracts**

- a. Assistant (volunteer), The British Geothermal Project in Kenya, March, 1989 (vacation job).
- b. Marketing Assistant, Kodak (K) Company, July 1987 to August 1987 (vacation job).
- c. Electronics Trainee Technician, Kenya Railways Corporation, January 1985 to May 1986.

**5. LEADERSHIP/MANAGEMENT EXPERIENCE: NATIONAL AND INTERNATIONAL**

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**(I) National**

- 1) Chairman, Geologists Registration Board of Kenya from 2021 to 2024.
- 2) 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.
- 3) Member of team selected to prepare a National Ground Water Policy for Kenya, May to June 2013.

- 4) 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.
- 5) 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.
- 6) Chairman, Chiromo Campus Club, May 2013 to May 2016.
- 7) Board Member, Dago Kokore Secondary School, 2010-2012.
- 8) Chairman, Geological Society of Kenya (GSK), March 2007 to March 2011.
- 9) Vice-Chairman, Geological Society of Kenya (GSK), 2006 to 2007; member since 1997.
- 10) Vice Chairman, Chiromo Campus Club, October 2006 to 2008.
- 11) Chairman, Network of African Science Academies (NASAC) Water Programme Steering Committee, 2010 to date.
- 12) Co-organiser, Resource Person and/or Facilitator roles at several national meetings
- 13) Member, Rhodes Scholarship Selection Committee for Kenya, December 1995-2001.
- 14) Assistant Treasurer, Chiromo Campus Club, October 1998-2005
- 15) Secretary, Kenya Rhodes Scholars Association, June 1998-2001.
- 16) Chairman, Kenya Youth for Christ Missions Support Committee, 1988 to 1990.

## **(II) International**

- 1) Interim Treasurer and General Council Member of the Kenya National Academy of Sciences (KNAS) 2021 to present.
- 2) General Council Member of the African Academy of Sciences (AAS) 2020 – present
- 3) Member, Committee for the Stratigraphy and Chronology Commission (SACCOM) of INQUA (International Union for Quaternary Research), May 2019 to date.
- 4) Member, International Lake Environment Committee (ILEC), 2007 to present.
- 5) Member, Climate Variability (WCRP) – Variability in African Climate System (CLIVAR-VACS) Panel, June 2003 to 2009.
- 6) Intergovernmental Panel on Climate Change (IPCC) – Expert Scientist: Contributing Author in the 3rd Assessment Report and Lead Author in the 4th Assessment Report (2007)
- 7) International Scientific Steering Committee Member, International Geosphere-Biosphere Programme - Past Global Changes Programme (IGBP-PAGES SSC), 2000-2005.
- 8) Managing Editor, Africa Journal of Physical Sciences (AJPS), 2013 to date; Editorial Board Member of Palaeoecology of Africa, 2007 to date; Kenya Policy Briefs, November 2019 to date. I have formerly served on the editorial boards of The Holocene and Quaternary International.
- 9) Programme Officer/Senior Scientific Officer, Pan-African START Secretariat, January 1997- July 2006.
- 10) Research Scientist, PAGES Africa Regional Centre, June 1996-2000
- 11) Paper Reviews for the following Journals: 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, Kenya Journal of Sciences.

- 12) Invited Keynote Presentations at several Major International Colloquia (see section 12).
- 13) Vast experience in national and international conference organisation, facilitation and reporting (see section 12).

### (III) **Other Administrative/Leadership Experience**

- 1) Member of Oxford University Clubs Committee, 1991 to 1993.
- 2) Member, Worcester College Middle Common Room (MCR) Committee, 1991 to 1992.
- 3) Worcester College Representative to Oxford University Graduate Union, 1991 to 1992.
- 4) Chairman, Nairobi University Geology Students Association (NUGSA), 1988 to 1989.
- 5) Member, Editorial Board of NUGSA Magazine, 1989.
- 6) Founding Chairman, Organization of Nairobi University Science Students, 1988.
- 7) Chairman, Nyerere Hall, University of Nairobi, 1987.
- 8) Vice-Captain, Nairobi University swimming team, 1987.

## **6. MEMBERSHIP IN LEARNED SOCIETIES & COMMITTEES**

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- 1) Fellow, The World Academy of Sciences (FTWAS), Jan 2022 to date.
- 2) Fellow, African Academy of Sciences (FAAS), 2016 to date
- 3) Fellow, Kenya National Academy of Sciences, 2022 to date.
- 4) Member, Kenya National Academy of Sciences, 2005 to 2021
- 5) Fellow, Geological Society of Kenya, 1997 to date
- 6) Member, Nature Kenya, 1997 to date
- 7) Member, Environment Institute of Kenya, 2004 to date
- 8) Life Member (No. 000795), Bronze Category, University of Nairobi Alumni Association, 2007 to date

## **7. RESEARCH GRANTS AND PROJECT ROLES**

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### **a) Ongoing**

1. July 2022 – Dec 2024: PI – **GCA-UoN Project: Enhancing and Scaling Up Climate Adaptation for Resilient Infrastructure in Kenya and The East African Region.** Amount Awarded: € 1,200,000 for University of Nairobi. Funded by Global Center on Adaptation, through the Africa Adaptation Acceleration Program (AAP), The Netherlands.
2. May 2022 – Apr 2027: PI - **GWS-SENCE: GroundWater SuStainable and Equitable development uNder Constraints of Ecosystem conservation and saltwater intrusion prevention in large deltas.** Focus on Lamu area. Amount Awarded: ca. €

246,808 for University of Nairobi. Funded by Water and Development Partnership Programme, The Netherlands.

3. May 2021 – Dec 2025: PI - **African Climate and Environment Center - Future African Savannas (AFAS)**. Amount Awarded: ca. EUR 1,000,000.00 for University of Nairobi. Funded by DAAD. AFAS is hosted conjointly at the Université Félix Houphouët-Boigny (UFHB) with its African Centre of Excellence on Climate Change, Biodiversity and Sustainable Agriculture (CEA-CCBAD) in Côte d'Ivoire and the University of Nairobi (UoN) with its Institute for Climate Change and Adaptation (ICCA) in Kenya. Partner universities in Germany are the Universities of Bonn (UoB) and Cologne (UoC). UoC is the project leader.
4. Dec 2020 – July 2021: PI: **Urban Water Resilience in Transition**. HEFCW GCRF CATALYST GRANT: Transforming resilience across water and food systems. Funded by UK-GCRF. Amount Awarded: £49,508.00 for University of Nairobi. Names on Grant: Adrian Healy, Daniel Olago.
5. Jun 2018 – Nov 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. Names on grant: Daniel Olago and Evans Miriti.
6. 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. Names on grant: Neil Burgess, Declan Conway, Pantaleo Munishi, Japhet Kashiagili, Daniel Olago, Lucy Waruingi, Amani Ngusaru, Chai Kimin, Yinlong Xu, Wang Luo.
7. 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. Names on grant: Robert Hope, Daniel Olago, Salehin Mashfiques, Gete Zeleke. Extended to 2024 in October 2020 and provided an additional GBP 7,500,000. <http://www.reachwater.org.uk/>
8. 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 Richard Taylor, University College London; Cheikh Gaye, Université Cheikh Anta Diop, Senegal; Michael Owor, Makerere University; Daniel Olago, University of Nairobi). Project Reference: AQ140023.
9. Apr 2014 – Mar 2020: 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, Mike Thomas, Rural Focus, Kenya). Project Reference: NE/MOO8894/1.
10. 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.

11. 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.
12. 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).
13. 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.
14. 2013-2014: co-PI, **Groundwater Risks and Institutional Responses in Kwale County**. Awarding body: DFID/NERC/ESRC. Amount awarded: £133,005.
15. 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)).
16. 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.
17. 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 Hugué (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.
18. *Role: Team Leader; Environmental Geology; Environmental Policies; Climate and Land-use; Subsurface Geobiochemical Proxies.*
19. 2011 to 2020. **HSPDP - Hominin Sites and Paleolakes Drilling Project** (with Andy Cohen, University of Arizona, and HSPDP Consortium – Lakes Magadi, Turkana basin, Tugen hills paleolake Baringo basin. Awarding body: International Continental Scientific Drilling Program (ICDP). Funding: US\$1,000,000.
20. *Role: Principal Investigator and National Representative.*

## b) Completed

- 1) 2012-2015. **Implementation of Project Activities for Building Adaptive Capacity Through Implementation of a Resilience Framework in The Lake Victoria Basin: Implementing a Resilience Framework to Support Climate Change Adaptation in the**

**Mount Elgon Region of the Lake Victoria Basin.** Conducted through African Centre for Collaborative Earth System Science (ACCESS, Nairobi). Funded by International Union for Conservation of Nature Eastern and Southern Africa Regional Office (IUCN-ESARO), USD217,139.

- *Role: Climate Disaster Management Expert.*

- 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) 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*

- 4) 2007-2009: **Scientific Drilling for Human Origins: Exploring the Application of Drill Core Records to Understanding Hominin Evolution.** Stratigraphy and reflection seismics to identify potential drilling sites for collection of sediment cores from palaeolake basins in Kenya and Ethiopia. In collaboration with Prof. Andy Cohen, University of Arizona, and others. Funded by the US NSF at \$97,532.

- *Role: Investigator, Kenya coordinator.*

- 5) 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)*

- 6) 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)*

- 7) 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)*

- 8) 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)*
- 9) 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*
- 10) 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)*

## 8. SCHOLARSHIP/MERITORIOUS AWARDS AND RECOGNITIONS

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- 1) Performance contract appraisal ranking – “Outstanding” to “Exemplary” from 2008 to date.
- 2) Mention in Vice-Chancellor Speech during the graduation ceremony of September 2017 for bringing in amongst the highest amounts of research funds to the university.
- 3) 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 Afusat Jagun Jubril, January to December 2017, under the Climate Impacts Research Capacity and Leadership Enhancement (CIRCLE) Programme.
- 4) STIAS Fellowship - at the Stellenbosch Institute for Advanced Study, South Africa, from 1<sup>st</sup> August 2017 to 31<sup>st</sup> October 2017. Research Topic: *The challenges and options in relation to water security for groundwater-dependent urban settlements located in fragile regions of Kenya.*
- 5) 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.
- 6) 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.
- 7) Awarded Certificate by the Atmospheric Science Librarians International in October 2007 for “High Impact Comprehensive Publication” for contributions to the Intergovernmental Panel on Climate Change Working Group I Report on “Climate Change 2007 – The Physical Sciences Basis.
- 8) Certificate of Achievement awarded by the Ministry of Water & Irrigation and International Lake Environment Committee Foundation (ILEC), Kenya for participation as a member of the National Organising Committee that successfully organised the 11<sup>th</sup> World Lake Conference, hosted by the Government of Kenya and ILEC from 31 October to 4 November 2005 in Nairobi, Kenya.
- 9) 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.
- 10) RHODES Scholar for Kenya, 1990, University of Oxford, UK.
- 11) DAAD Scholar, University of Nairobi, 1989 to 1990.



## 9. TRAINING ATTENDED

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- 1) Intellectual Property and Commercialisation of Research, 5-6 March 2020, University of Nairobi Towers.
- 2) 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.
- 3) Water Resources Capacity Building Workshop, Training on HEC-DMS Model, April 28-30, 2014. Chiromo Campus, University of Nairobi (Awarded Certificate of Completion).
- 4) Training on Procurement Rules and Regulations, 14 October 2011, College of Biological and Physical Sciences, University of Nairobi, Kenya. Funded by University of Nairobi.
- 5) Project Management Training Course, 21-23 October 2008, College of Biological and Physical Sciences, Department of Geology, Chiromo Campus, University of Nairobi, Kenya (Awarded Certificate of Attendance).
- 6) Transformative Leadership and Results Based Management, 25-26 October 2007, Taifa Hall, University of Nairobi, Nairobi, Kenya. Funded by University of Nairobi.
- 7) Training on Pedagogical Skills, 1-3 October 2007, University of Nairobi, Nairobi, Kenya. Funded by University of Nairobi.
- 8) Geochemistry of Groundwaters in the East African Rift System, 10-13 April 2007, Addis Ababa University and Geological Survey of Ethiopia (Awarded Certificate of Attendance).
- 9) Strategic Planning Training and Writing Workshop, May 2006, Kenya National Academy of Sciences, Nairobi, produced the first-ever Strategic Plan 2006-2011 for KNAS.
- 10) Training Workshop in Integrated Environmental Assessment and Reporting, 24-28th May 2004, Nairobi, Kenya. Funded by UNEP-DEWA.
- 11) Development and Application of Scenarios in Impacts, Adaptation and Vulnerability Assessments. AIACC Intensive Training Course, 15-26 April 2002, University of East Anglia, Norwich, UK,. Funded by UNEP, TWAS and START (Awarded Certificate of Attendance).
- 12) 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).
- 13) African-GAIM Modelling Workshop, March 3 to 12, 1997, Mombasa, Kenya. Funded by IGBP-GAIM (Awarded Certificate of Attendance).
- 14) National Youth Service, May 1986 to August 1986.

## 10. RESOURCE PERSON – CAPACITY BUILDING & TRAINING

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- 1) AFAS Summer School, 22 August 2022 – 11 September 2022, Bonn, Germany. Hybrid programme. **Co-PI of Project and Resource Person.**
- 2) Petroleum Geoscience Summer School (PGSS) – “Fuelling Economic Development: The Potential of Energy Resources in East Africa”, 13 May – 10 June 2019, Department of Geology, University of Nairobi. Funded by German Cooperation Deutsche Zusammenarbeit and Federal Institute for Geosciences and Natural Resources, in collaboration with Department of Geology, University of Nairobi. **Resource Person.** (Awarded Certificate of Participation).

- 3) 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. **Organiser and Resource Person.** (Awarded Certificate of Participation).
- 4) 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. **Resource Person.**
- 5) UNESCO-IHE and Department of Geology University of Nairobi Refresher Course Workshop on Water and Sediment Dynamics and Management in River Basin Management, 16th to 20th November 2015, Pridelnn Rhapta Hotel, Nairobi, Kenya. Funded by the Netherlands Fellowship Programme (NFP). **Organiser and Resource Person** (with Paolo Paron and Luigia Brandimarte of UNESCO-IHE).
- 6) ACCESS/DST 14th Habitable Planet Workshop and Statistics and Modelling Training Course, 1-10 July 2013, University of Nairobi, Kenya. **Organiser and Resource Person** (with Carl Palmer and Neville Sweijd of DST/NRF Applied Centre for Climate and Earth Systems Science (ACCESS) of South Africa).
- 7) Kenya National Academy of Sciences (KNAS) Strategic Plan Review 2011-2017 Workshop, Garden Hotel, 12-14 October 2012. **Resource Person.** (Awarded Certificate of Attendance).
- 8) Bali Strategic Plan (BSP), Second National Workshop on Technological Support and Capacity Building, 5th - 7th March 2006, Garden Hotel, Machakos, Kenya. Ministry of Environment and Natural Resources, Kenya. **Resource Person.**
- 9) Kenya National Academy of Sciences (KNAS) Strategic Planning Workshop, Machakos - May 2006 for the 2006-2011 Strategic Plan. **Resource Person.**
- 10) Workshop on the Petroleum Geology of the East African Margin, 5-7 March 2006, Lake Naivasha, Kenya. **Resource Person.** (Awarded certificate by GX Technology Corporation).
- 11) The International Course on African Wetland Management, 2004 (13th October to 23rd November). Held at Kenya Wildlife Training Institute, Naivasha, Kenya. **Resource person (Hydrology).**
- 12) The Lake Victoria Training Programme, 2003, 2004. Held at Kenya Wildlife Training Institute, Naivasha, Kenya. Funded by McArthur Foundation/NORAD. **Resource person (Sedimentology).**
- 13) 2nd African Environment Outlook Report: The Lake Victoria Basin Environment Outlook, 2004/2005. **Resource Person.**

## 11. STUDENT SUPERVISION

### 1. Ph.D

COMPLETED				
	NAME	INSTITUTION & Co-Supervisors	TITLE	STATUS
1.	Florence Tanui (180/51693/2017)	University of Nairobi, Kenya	The Hydrogeology of the Lodwar Alluvial Aquifer System and its Vulnerability to Rainfall and	Completed Nov 2021;

		1 <sup>st</sup> Supervisor, with Dr. Z. Kuria, Dr. G. Ouma	Streamflow Variability, Turkana, Kenya	Graduated Dec 2021
2.	James Kaoga Otieno (185/93803/2014)	University of Nairobi, Kenya  1 <sup>st</sup> Supervisor, with Prof George Ouma, Prof Gilbert Ouma, Prof Joshua Onono	Appraisal of the Climate Change Resilience of a Pastoral Socioecological System: A Case Study of the Maasai Community In Kajiado County, Kenya	Completed July, 2021; Graduated Sept 2021
3.	Kanoti, Japhet Rugendo (180/96667/2014)	University of Nairobi, Kenya  1 <sup>st</sup> Supervisor, with 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	Completed Mar 2021, Graduated Sept 2021
4.	Calvince Othoo Ouko (185/49962/2015)	University of Nairobi, Kenya  2 <sup>nd</sup> Supervisor, with Dr Simeon Dulo, UoN	The Impact of Climate Extremes (Floods) on Sanitation Infrastructure in Unplanned Settlements In Kisumu City	Completed, Dec 2020; Graduated Sept 2021
5.	Jesse Omondi Owino (185/907453/2015)	University of Nairobi, Kenya  1 <sup>st</sup> Supervisor, with Prof Shem Wandiga, UoN; Dr Asaah Ndambi, Wageningen University, Netherlands	Evaluation of Options for Minimising Greenhouse Gas Emissions Through Improved Manure Management in Smallholder Dairy Farm Systems in Nandi County, Kenya	Completed, Nov 2020; Graduated Dec 2020
6.	Omuombo, Christine (180/90241/2013)	University of Nairobi, Kenya  1 <sup>st</sup> Supervisor, with 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	Completed, April 2020; Graduated Sept 2020
7.	Mwenda, Peninah, K. (185/90321/2013)	University of Nairobi, Kenya  1 <sup>st</sup> Supervisor, with 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	Completed, Dec 2019; Graduated Sept 2020
8.	Alemu Addisu Abrha (185/98392/2015)	University of Nairobi, Kenya  1 <sup>st</sup> Supervisor, with Prof. Shem Wandiga, Dr. Silas Oriaso, Dr. Dorothy Amwata	Smallholder Farmers Vulnerability to Climate Change Impacts on Agricultural Production in Kolla Temben District In Northern Ethiopia	Completed, Dec 2019; Graduated Dec 2019
9.	Muhati, Godwin Leslie (185/91101/2013)	University of Nairobi, Kenya  1 <sup>st</sup> Supervisor, with Dr. Lydia Olaka, UoN	Sustaining carbon sequestration potential and ecosystem services in Mount Marsabit forest under different land use and climate change scenarios	Completed, July 2019; Graduated Sept 2019
10.	Ogallah, Samson Samuel	University of Nairobi	Impacts of Climate Variability and Change on Smallholder Farmers and	Completed, October

	(185/98029/2015)	2 <sup>nd</sup> supervisor, with Prof. Shem Wandiga, UoN; Dr. Silas Oriaso, UoN	Adaptation Strategies in Southwest Nigeria	2018; Graduated Dec 2018
11.	Muriithi, Gideon Muchiri (185/93021/2013)	University of Nairobi 1 <sup>st</sup> supervisor, with 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; Graduated Dec 2018
12.	Aluoch, Jacinter Amadi (185/96148/2014)	University of Nairobi, Kenya 1 <sup>st</sup> supervisor, with 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
13.	Omemo, Peter (185/90581/2013)	University of Nairobi, Kenya 2 <sup>nd</sup> supervisor, with 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
14.	Olaka, Lydia Atieno	Potsdam University, Germany 2 <sup>nd</sup> supervisor, with 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 2 <sup>nd</sup> supervisor, with Prof. Dr. Bernhard Eitel, 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

#### CLOSE TO COMPLETION

16.	Dennis Muriithi Njagi (180/51173/2016)	University of Nairobi, Kenya Prof. Joyanto Routh, University of Linkoping, Sweden	High-Resolution Multi-proxy Sedimentological and Geochemical Reconstruction of Holocene Changes in Kenya	Estimated completion date, Dec 2021
17.	Mulonga, Julie Kavuka (2013)	University of Nairobi, Kenya Prof. K. Mavuti, Machakos University College	Assessing climate change vulnerability of the communities dependent on mangrove ecosystems in the Tana River delta, Kenya	Estimated completion date, Dec 2021

#### IN PROGRESS

18.	Julian Awuor Ogondo (2013)	Maseno University, Kenya Prof. Boniface Oindo	An Assessment of Paleowater Quality on Beaches of Rusinga-Mfangano	Ongoing
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			Islands Lake Victoria, Kenya using Ostracodes as Paleoclimate Indicator	
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## **2. M.Sc degree/Postgraduate diploma**

	<b>NAME</b>	<b>INSTITUTION</b>	<b>DEGREE PROGRAM</b>	<b>TITLE</b>	<b>STATUS</b>
1.	Hellen Nafuna Wanyama Ngema (158/75492/2014)	ICCA, University of Nairobi, Kenya	Master of Climate Change Adaptation	Climate Change Action Toolkit for Groundwater Use in Agricultural Production: Case Study of Lwanda, Bungoma County	Graduated Sept 2021
2.	Wadira, Solomon Owango (156/7590/2017)	Department of Geology, University of Nairobi, Kenya	Master of Science in Geology (Hydrogeology and Groundwater Resource Management)	Hydrochemical Characteristics of Aquifers in Mwingo North, Kenya	Graduated Dec 2020
3.	Angengo, Janice Heliana (156/86726/2016)	Department of Geology, University of Nairobi, Kenya	Master of Science in Geology (Petroleum Geology)	Structure and Stratigraphy of the Bogal inversion zone, Anza Basin, Kenya: Implications for the Petroleum System	Graduated Dec 2020
4.	Bett, Kipng'etich Gilbert 156/70102/2013	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	Graduated Dec 2018
5.	Wetende Eric (2013)	Institute for Climate Change and Adaptation, University of Nairobi, Kenya	Master of 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	Graduated Sep 2018
6.	Masimbe, Tinashe (2015)	Institute for Climate Change and Adaptation, University of Nairobi, Kenya	Master of 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.	Graduated Sep 2018
7.	Wanjohi, Hellen Njoki	Institute for Climate Change and Adaptation, University of Nairobi, Kenya	Master of 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	Graduated Sep 2017

8.	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	Graduated Dec 2016
9.	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	Graduated Dec 2015
10.	Njagi, Dennis Muriithi (2012)	Department of Geology, University of Nairobi, Kenya	Master of Science in Geology (Sedimentology)	The Plio-Pleistocene History of Sedimentation in Lake Baringo Basin, Kenya - A Drill Core Perspective	Graduated Sep 2015
11.	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	Graduated Dec 2014
12.	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	Graduated Sep 2013
13.	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	Graduated Sep 2013
14.	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	Graduated Sep 2012
15.	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	Graduated Sep 2012
16.	Okech, Emilly, 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	Graduated Sep 2012

17.	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	Graduated Sep 2012
18.	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	Graduated Sep 2011
19.	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	Graduated Sep 2011
20.	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	Graduated Sep 2011
21.	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	Graduated 2010, with distinction
22.	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	Graduated Sep 2010
23.	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	Graduated Sep 2010
24.	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	Graduated Sep 2008
25.	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)	Graduated Sep 2007

26.	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	Graduated Sep 2011
27.	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	Graduated Sep 2007
28.	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	Graduated Sep 2007
29.	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	Graduated Sep 2007
30.	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	Graduated 2013
31.	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	Graduated Sep 2005
32.	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.	Graduated Sep 2003
33.	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	Graduated Sep 2003
34.	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	Graduated Sep 2003



35.	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	Graduated Sep 2001
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### **3. Postdoctoral Fellow Supervision**

	Name	Institution	Project title	Year
1.	Dr. Florence Tanui	ICCA, UoN (Kenyan)	REACH Programme	Jan 2022 to Mar 2024
2.	Dr. Catherine Sang	ICCA, UoN (Kenyan)	Development Corridors Partnership (DCP) Project	Oct 2018 to Sep 2021
3.	Dr. Tobias Nyumba	ICCA, UoN (Kenyan)	Development Corridors Partnership (DCP) Project	Oct 2018 to Sep 2021
4.	Dr. Afusat Jagun Jubril	ICCA, (Nigerian)	CIRCLE Programme	Jan to Dec 2017
5.	Dr. Hannah Karuri	ICCA, UoN (Kenyan)	CIRCLE Programme	Jan to Dec 2015

### **4. External Examination**

External Examiner (EE) for the Institute of Mining and Mineral Processing, South Eastern Kenya University, 2016-2020.

Externally Examined Theses:

	Name	Institution	Degree Level	Thesis Title	Year
1.	Pamela Sibanda	University of Zimbabwe	Ph.D.	Sediment Characteristics, Nutrient Fluxes and Aspects of the Ecology of Benthic Invertebrates of Lake Chivero, Zimbabwe	Dec 2020
2.	John Mkungu	Nelson Mandela African Institution of Science and Technology	Ph.D.	Assessment of Fluoride Concentration Around Mt Meru and the Capabilities of Locally Available Materials in Remediation of Fluoride-Rich Waters	Sep 2020
3.	Gijs De Cort	Universiteit Gent, Belgium	Ph.D.	Holocene Climate Reconstruction in East Africa, based on Multi-Proxy Analysis of Lake Sediments	May 2016
4.	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
5.	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

6.	Sam Kagwisagye	Dundalk Institute of Technology, 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
7.	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
8.	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

## 12. INTERNATIONAL AND NATIONAL COLLOQUIA

### 1. Papers Presented

1. World Water Day 2022: A Solutions-Driven Workshop on Climate Impacts on Freshwater, March 22, 2022, 9am – 12pm EDT – Toronto Time. D. Olago, Paper presented: [Human and Environmental Health with a Focus on Africa's Lakes](#).
2. DCP Stakeholder Dissemination Workshop, Movenpick Hotel, Nairobi, Kenya. 14th February 2022. Daniel Olago, Lucy Waruingi, Catherine Sang & Tobias Nyumba, Paper presented: [Building Sustainable Development Corridors](#).
3. REACH Kenya Programme Stakeholder Workshop, Cradle Hotel, Lodwar, Kenya. 22<sup>nd</sup> February. D. Olago, Paper presented: [REACH Kenya Programme Overview](#).
4. AfriWatSan Final Stakeholders Dissemination Workshop, Pinecone Hotel, Kisumu, Kenya. 29<sup>th</sup> March 2022. Paper presented: C. Othoo, D. Olago, S. Dulo, R. Ayah - [Addressing Flood-risk Vulnerabilities of Sanitation Facilities in Urban Informal Settlements in Kisumu, Kenya](#).
5. AfriWatSan Final Stakeholders Dissemination Workshop, Pinecone Hotel, Kisumu, Kenya. 29<sup>th</sup> March 2022. D. Olago, Paper presented: [AfriWatSan: sustaining low-cost, urban water supply and sanitation systems in Africa](#).
6. AfriWatSan Final Stakeholders Dissemination Workshop, Pinecone Hotel, Kisumu, Kenya. 29<sup>th</sup> March 2022. C. Othoo, D. Olago, S. Dulo, R. Ayah, Paper presented: [Proximity density implication of water and sanitation facilities in the informal settlements in Kisumu Implication on public health planning](#).
7. AfriWatSan Final Stakeholders Dissemination Workshop, Pinecone Hotel, Kisumu, Kenya. 29<sup>th</sup> March 2022. D. Olago, C. Nyamai, S. Dulo, R. Ayah, J. Kanoti and Others, Paper presented: [Hydrogeological Constraints on Occurrence, Distribution and Quality of Shallow Groundwater in Kisumu](#).
8. Kenya Climate Smart Agriculture Project (KCSAP) Students Conference on Climate Smart Research for Sustainable Agriculture and Livelihoods. 21st to 27th November 2021, Lake Naivasha Resort, Kenya. Presentation on Thursday 25th November 2021 @ 8:30am. D.

- Olago & J. Owino, Paper presented: [\*How does climate smart agriculture contribute to reduction of greenhouse gas emissions? Key highlights and evidence.\*](#)
9. Ocean Atmosphere Sustainability Colloquium – School of Marine and Atmospheric Sciences (SoMAS), Stony Brook University, New York. Friday 19th November 2021 @ 8 pm EAT. D. Olago, Paper presented: [\*Water Security in Africa's Drylands – A Groundwater Perspective.\*](#)
  10. International Webinar - PAGES ECN Webinar series. 16<sup>th</sup> December 2020, 5 pm EAT (2 pm UTC). Paper presented: [\*The Policy Relevance of Palaeoresearch in Africa.\*](#)
  11. Online Conference: Gender Summit 18 - Agriculture through the Gender Lens: From Surviving to Thriving in a Climate Changing World, 23 November 2020 – 2 December 2020. Paper presented: [\*Gender and water security lessons from the REACH Programme.\*](#)
  12. International Webinar on “Mainstreaming Lakes in the Global Water Agenda”, 27 October 2020, 5-8pm UTC. Hosted by International Lake Environment Committee (ILEC), Japan. Paper presented: [\*The Status of Lake Basin Management in Kenya and the Prospect for East African Collaboration on ILBM.\*](#)
  13. International Webinar - IGAD Climate Prediction and Applications Centre (ICPAC), Webinar, 27 July 2020, Nairobi, Kenya. Paper presented: [\*Addressing Multidisciplinary Capacity Needs for Climate Change.\*](#) <https://www.youtube.com/playlist?list=PLIsp6d-RoVqTgXYS9ni2J0aH-Lg56Z3u>
  14. International Webinar – University of Nairobi CBPS Annual Research Week, 14-16 October 2020, daily on Zoom. Hosted by College of Biological and Physical Sciences (CBPS), University of Nairobi, Kenya. Papers presented: [\*\[1\] Structure and stratigraphy of the Bogal inversion zone, Anza basin, Kenya: Implications for the petroleum system \(with Janice Angengo and Dennis Waga\); \[2\] Safe and sustainable conjunctive use of the sub-surface for groundwater supplies and on-site sanitation in Kisumu city \(with Japhet Kanoti, Norbert Opiyou and Christopher Nyamai\); \[3\] Evaluation of the groundwater recharge and flow in Ewaso-Ngiro-Lagh Dera basin, Kenya: inference from 3D hydrostratigraphic model \(with Tabitha Githinji, Edwin Dindi, Zacharia Kuria, Chrisanthus Gicheruh\); \[4\] Gradual and muted geolimnological responses of Lake Nkunga, Mount Kenya to environmental changes during the past millennium \(with Christine Omuombo, David Williamson\).\*](#)
  15. International Webinar - Development Corridors Partnership Mid-Term Conference, 22-25 September 2020, 0900-1300hr daily on Zoom. Hosted by DCP Project, WCMC, Cambridge, UK. Papers presented: [\*\[1\] Landscape dynamics and the underlying drivers in the SGR Corridor \(with Catherine Sang\) \[2\] Water security in the face of economic development and climate change in the SGR corridor \(with Catherine Sang\).\*](#)
  16. Zoom Webinar on “Lake Victoria Flooding Disaster and Implications on Development Policy and Research” May 11, 2020 02:00 PM Nairobi. Hosted by East Africa Institute, Aga Khan University. [\*Panelist.\*](#)
  17. First Regional Workshop on Gender Equality in STEM, “Harnessing Women and Girls potential in STEM for sustainable development.” Eastern Africa Network for Women in Basic Sciences (EANWoBAS) – Kenya & The University of Nairobi (UoN), 28-29 November 2019, University of Nairobi Towers MLT 405, Nairobi, Kenya. Paper presented: [\*Sustainable Strategies for Resource Mobilization to Support STEM Research and Advocacy.\*](#)
  18. Conference on “Ecosystem Lake Victoria: Sustainable Development and Blue Economy Opportunities”, 20-21 November 2019, Lake Victoria Serena Hotel, Kampala Uganda. Konrad Adenauer Stiftung (KAS) Cameroon, Regional Programme on Energy Security and

Climate Change in Sub-Saharan Africa. Session Convener and Paper Presented: [Lake Victoria under changing climate and intensified land uses: insights from research and challenges to sustainable development](#). Based on results from Afriwatsan Project.

19. The Clean Water Conference, Lake Basin region, Acacia Premier Hotel, Kisumu, 6-7 November 2019. Panelist: [Panel 6: Pollution, climate change and its effects in the lake basin region](#). <https://cleanwaterconference.com/>
20. "Humanitarian Transition in Kenya: Actors, dynamics and ethics" Conference. 6<sup>th</sup> International Conference organised by the French Red Cross Foundation, ICHA (International Centre for Humanitarian Affairs) and IRD (French Institute for Research and Development), 29-30 October 2019, Boma Hotel Conference Centre, Nairobi, Kenya. Moderator: [Round table n°2 "Natural disaster & climate change management policies: the challenges of a multi stakeholder approach in a devolved context"](#).  
Session video: <https://www.youtube.com/watch?v=ioVgybE6k24>  
Photo Gallery: <https://flic.kr/s/aHsmJdVEj7>
21. TWAS-SAREP Regional Young Scientists' Conference. Theme: Water-Food-Climate/Energy Nexus and Policy in Africa, 23 – 25 October 2019, Nairobi Safari Club Hotel, Nairobi, Kenya. Invited Keynote Presentation: [Water resources exploitation and management in Africa](#).
22. Strengthening Scientific Research Network and Policy Nexus in Africa – Science Diplomacy Seminar, Tuesday 18<sup>th</sup> June 2019, Riara University. Paper presented: [Research infrastructure/challenges and opportunities for regional networking at the ICCA, University of Nairobi](#).
23. 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](#).
24. National Integrated Lake Basin Management Strategy – Stakeholder Workshop, 9 January 2019, Kisumu, Kenya. Paper presented: [Kenya National Integrated Lake Basin Management Strategy – An Overview](#).
25. "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](#).
26. The 17<sup>th</sup> World Lakes Conference, 15-19 October 2018, Ibaraki Prefecture, Japan. [Untangling the management conundrum of Kenyan lakes](#).
27. The ILBM Strategy Validation Workshop, Nairobi, Kenya, 20-21 August 2018. Paper presented: [Kenya National Integrated Lake Basin Management Strategy – An Overview](#).
28. 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](#). **Member of the Local Organising Committee.**
29. 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](#).
30. CEAC Symposium, 26 May 2017, CBPS, UON, Nairobi. Paper presented: [Climate Change, Water Scarcity and Food Security in Eastern Africa](#).
31. 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.

32. Gro-for-Good Stakeholder Workshop, 3<sup>rd</sup> March 2017. Leopard Beach Hotel, Kwale, Kenya. *Paper presented: The geological context for groundwater risk management in Msambweni, Kenya.*
33. 43rd IAH Congress, 25-29 September 2016. Montpellier, France. *Paper presented: An overview of groundwater and sanitation challenges in Kisumu City, Kenya.*
34. 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.*
35. 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.*
36. 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.*
37. 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.*
38. 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.*
39. 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.*
40. The 2<sup>nd</sup> 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).*
41. Ministry of Water and Irrigation National Consultative Workshop on Research in the Water Sector, 5<sup>th</sup> 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.*
42. National Launch of IYPE and 12<sup>th</sup> 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.*
43. 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).*
44. 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).*
45. 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).*

46. 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.*
47. 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.*
48. 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), 9<sup>th</sup> to 12<sup>th</sup> February 2007, Mombasa Beach Hotel, Mombasa, Kenya. *Paper presented: Use of Foraminifera for Detection of Climate Change.*
49. Workshop on Disaster Risk Reduction Strategy for Kenya, 26<sup>th</sup> October 2006, Utalii College, Nairobi, Kenya. *Presentation: Reduce Loss of Life, Livelihoods and Property.*
50. 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.*
51. Fifteenth Climate Outlook Forum for the Greater Horn of Africa (GHACOF15), 2-4<sup>th</sup> March 2005, Mombasa, Kenya. *Paper presented: The interactions between the coastal zone, the oceans and the inland freshwater resources of GHA.*
52. Policy Consultation Workshop on “Vulnerability to Climate Stress – Local and Regional Perspectives” held at ICRAF, Nairobi, Kenya, January 27-28<sup>th</sup> 2005. CICERO, ACTS and IIED-UK. *Paper presented: Climate change, malaria and cholera in Lake Victoria basin.*
53. 2<sup>nd</sup> AIACC Africa Regional Workshop, Dakar, Senegal, March 22-29, 2004. *Paper presented: Climate and hydrological variability and extremes in Lake Victoria basin.*
54. 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.*
55. 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.*
56. 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.*
57. IDEAL Second International Symposium, Club Makokola, Malawi, 10<sup>th</sup> to 13<sup>th</sup> January, 2000. **Co-organiser.** *Paper presented: Late Holocene palaeoenvironmental record of Kiluli Swamp, Mount Kenya, and its regional context.*
58. Saline-Alkaline Lakes in Eastern and Southern Africa Workshop. Nairobi, Kenya, 24<sup>th</sup> to 27<sup>th</sup> September, 2000. Funded by German Exchange Programme (DAAD) and UNESCO. **Co-organiser.** *Paper presented: Physico-chemical processes in the saline alkaline lakes of Kenya.*
59. 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).*
60. The 8<sup>th</sup> 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.*

61. 3rd PACOM Meeting, Nairobi, Kenya, 31 August 1998. *Paper presented: New perspectives on late Quaternary palaeoenvironments of East Africa (invited paper).*
62. PAGES Open Science Meeting, London, UK, April 1998. *Paper presented: Highlights of research activities at the PAGES Africa Regional Site, Nairobi, Kenya.*
63. 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.*
64. 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.*
65. 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.*
66. 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).*
67. 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).*
68. 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.*
69. 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).*
70. IDEAL Symposium on the Palaeoclimatology of East African Lakes, Jinja, Uganda, February 1993. *Paper presented: Impact of natural long-term variations in atmospheric CO<sub>2</sub> on the East African mountains (with R.A. Perrott, F.A. Street-Perrott, and D.D. Harkness).*
71. Abstract, IDEAL Symposium on the Palaeoclimatology of East African Lakes, Jinja, Uganda, February 1993. Impact of natural long-term variations in atmospheric CO<sub>2</sub> on the East African mountains (with R.A. Perrott, F.A. Street-Perrott, and D.D. Harkness).
72. 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**

73. ARUA-CD Strategy Meeting. 28<sup>th</sup> February – 1<sup>st</sup> March 2023, Best Western Plus Hotel, Nairobi, Kenya. **Co-Organiser.**
74. Development Corridors Partnership Project Dissemination Workshop, Four Points Sheraton Hotel, Nairobi, 14<sup>th</sup> February 2022. **Co-Organiser.**

75. Scenario Planning Workshop. Thematic Focus – Horizon Scanning using Foresight Tools for Sustainable Land Use in Kenya, 10<sup>th</sup> February 2022, Wangari Maathai Institute, University of Nairobi, Kenya, 10<sup>th</sup> February 2022. Hosted by the DCP Project. **Co-Organiser.**
76. The ARUA-CD Workshop for Kenya: The State of Nationally Determined Contributions in Kenya. 18-19 August 2021, Nairobi Serena Hotel, Nairobi, Kenya. **Co-Organiser.**
77. International Webinar on “Round Table Kisumu Blue 4 Green Flagship (KB4G)” of the Digital Africa Business Days with the theme “Moving Forwards Together”, 16 December 2020, 10.00-11.00 CET. Hosted by the Netherlands-African Business Council (NABC) in cooperation with the Dutch government.
78. African Academy of Sciences (AAS) Kenyan Fellows Meeting, 22 November 2019, Nairobi, Kenya.
79. The Regional Validation Workshop of the Project Preparation Document for “Enhancing Conjunctive Management of Surface and Groundwater Resources in Selected Transboundary Aquifers” Project, 9-11 April 2019, Addis Ababa, Ethiopia. **National Consultant** for Kenya.
80. Development Corridors Partnership Stakeholder Workshop, 4 April 2019, Intercontinental Hotel, Nairobi, Kenya. **Organiser.**
81. Stakeholders Environmental Assessment for Wind Power and Biodiversity in Kenya National Consultative Meeting, 12 March 2019, National Museums of Kenya, Nairobi, Kenya.
82. Wash Climate Risk Assessment Workshop, 7 March 2019, Lodwar, Turkana County, Kenya.
83. The Integrated Lentic-Lotic Basin Management (ILBM) Consultative Workshop, 14-19 January 2019, Abidjan, Cote d’Ivoire.
84. The 5<sup>th</sup> Annual Meeting of the Hominin Sites and Paleolakes Drilling Project (HSPDP), 25-27 January 2019, Biosphere 2, University of Arizona, USA.
85. 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.**
86. 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.**
87. Development Corridors Partnership (DCP) Project launch meeting, 23 November to 2 December 2018, Dar es Salaam, Tanzania. **Principal Investigator Kenya.**
88. 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.**
89. AfriWatSan Project – 4<sup>th</sup> Annual International Consortium Workshop, 9-13 July 2018, Dakar, Senegal. **Principal Investigator.**
90. 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.
91. Regional Conference – Water Stewardship for Sustainable Hydropower, 5-8 June 2018, Safari Park Hotel, Nairobi.
92. 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**
93. KIWA Industrial Water Management Workshop: Promoting Best Practices at Firm Level, 28 June 2020, PanAfric Hotel, Nairobi, Kenya.



94. 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.
95. The Woody Weeds Meeting, 13-18 February 2017, Nakuru, Kenya. A meeting of the Woody Invasive Alien Species in Eastern Africa Project.
96. 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.
97. First Kenya-Israel Joint Steering Committee Meeting on Collaboration in Water and Irrigation, 24-30 July 2016, Jerusalem, Israel.
98. NASAC communication event for the Climate Change Adaptation and Resilience in Africa Policymakers Booklet, 4-5 July 2016, Henessy Park Hotel, Ebene Cybercity, Mauritius.
99. WISE-UP Project, Third Stakeholders Forum Meeting, 18 March 2016, Intercontinental Hotel, Nairobi, Kenya.
100. WISE-UP Project, Third Decision-Maker's Forum Meeting, 17 March 2016, Intercontinental Hotel, Nairobi, Kenya.
101. 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.
102. Groundwater Risk Management for Growth and Development: End of Year 1 Project Workshop, 22-24 February 2016, Casa Ziwa, Msambweni, Kenya.
103. Validation Workshop on Climate Change Induced Conflicts and Migration, 18 February 2016, Sarova Panafric, Nairobi. (Awarded Certificate of Participation).
104. Eleventh Annual Meeting of African Science Academies (AMASA-11). Non-Communicable Diseases: Post 2015 Development Agenda, 29 November – 1 December 2015, Hilton Hotel, Nairobi, Kenya. **Member of the KNAS Local Organising Committee.**
105. GEOEACE - Geo-East Africa Conference and Exposition. Geological Society of Kenya, 6-7 September 2014, Laico Grand Regency Hotel, Nairobi, Kenya.
106. APANAC-IANAS Water Security in Africa and the Americas Workshop. 15-18 October, 2014, Panama City, Panama
107. 15<sup>th</sup> World Lake Conference – “Balancing Ecosystem Integrity and Human Wellbeing”, 1-5 September 2014, Perugia, Italy. (Awarded Certificate of Participation).
108. WISE-UP to Climate: Water Infrastructure Solutions from Ecosystem Services. 1st Stakeholder Workshop. 17-19 March 2014, Ocean Beach Resort and Spa, Malindi, Kenya.
109. TWAP African Lakes Consultative Meeting, 17-20 February, 2014, UNEP, Nairobi, Kenya.
110. WHO/TDR/IDRC - Climate Change Project Inception Workshop. 19-22 January, 2014. Morendat Training and Conference Centre, Naivasha, Kenya.
111. UNESCO Strategic and High-Level Meeting on Water Security and Cooperation, 11-13 September, 2013, Kenya School for Monetary Studies, Nairobi, Kenya. **Co-Chair.**
112. UNEP-DEPI EBA Mountain Project Learning Exchange Workshop, 1-4 July 2013, Mbale, Uganda. **Technical Expert.**
113. Final Stakeholders Workshop for "Adapting to CLimate Change Induced Water Stress in the Nile River Basin" Project. UNEP. 27-28 May 2013, Nairobi, Kenya.
114. 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.**

115. Two days research meeting to plan for a research project under "Heritage Conservation and Management", 10-12 December 2012, Dar es Salaam, Tanzania.
116. Future Earth Regional Workshop for Africa, 31 October to 2 November 2012. Cape Town, South Africa.
117. KNAS Workshop on Strategic Plan Review, 12-14 October 2012, Garden Hotel, Machakos, Kenya. **Resource Person.**
118. 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.
119. Scientific Conference of the NASAC-KNAW Collaboration Initiative on "Water Management Issues in Africa", 28<sup>th</sup> to 31<sup>st</sup> March 2012, Reduit, Mauritius.
120. Institute for Climate Change and Adaptation, CBPS, UoN Workshop, 23<sup>rd</sup> to 25<sup>th</sup> March 2012. **Curriculum Development for Institute Programmes.**
121. Workshop on the Development of Integrated Lake Basin Management (ILBM) Platform. Imperial Hotel, Kisumu, 7<sup>th</sup> December 2011. **Resource Person, ILEC and Member of the ILEC Organising Committee.**
122. Integrated Lake Nakuru Basin Management Workshop, Merica Hotel, Nakuru, 13<sup>th</sup> to 14<sup>th</sup> December, 2011. **Member of the ILEC Organising Committee.**
123. US-NSF and PAGES workshop on Continental Drilling in the East African Rift Lakes: A Strategic Planning Workshop, 14<sup>th</sup> to 16<sup>th</sup> November 2011, Renaissance Hotel, Providence, Rhode Island, USA.
124. Kenya National Consultation for the Groundwater Resources Exploration and Capacity Building to Combat Drought in the Horn of Africa, 9<sup>th</sup> to 10<sup>th</sup> November 2011, Laico Hotel, Nairobi, Kenya. Organised by Government of Kenya and UNESCO Nairobi Office.
125. Consultative workshop on Integrated Lake Basin Management (ILBM) and ILBM Platform, 1<sup>st</sup> to 5<sup>th</sup> August 2011, Pune, India. **Resource Person, ILEC.**
126. NASAC-KNAW Conference and 5<sup>th</sup> TWAS-ROSSA Young Scientists Conference. 23<sup>rd</sup> to 27<sup>th</sup> February 2011, Hilton Hotel, Nairobi. **Hon. Secretary of the Organising Committee.**
127. Integrated Lake Basin Management (ILBM) and Sanitation Challenges in the Kisumu-Winam Bay Region and in Lake Victoria, 14<sup>th</sup> February 2011, Imperial Hotel, Kisumu, Kenya. **Member of the ILEC Organising Committee and Rapporteur General.**
128. The 5<sup>th</sup> East African Community Petroleum Conference and Exhibition, 2<sup>nd</sup> to 4<sup>th</sup> February 2011, Serena Hotel, Kampala, Uganda.
129. Kenya Groundwater Governance Case Study Stakeholder Workshop, 2<sup>nd</sup> 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**
130. Launch of the Project on the Development of the National Water Master Plan, Wednesday 27<sup>th</sup> October 2010, Laico Grand Regency Hotel, Nairobi, Kenya. Ministry of Water and Irrigation.
131. Stakeholder Consultative Meeting on Mutual Recognition of Professional Qualifications, 7<sup>th</sup> September 2010, Crowne Plaza Hotel, Nairobi, Kenya. Organised by Republic of Kenya – Ministry of the East African Community.
132. NASAC Water Programme Launch Meeting, 2<sup>nd</sup> to 3<sup>rd</sup> August 2010, Hilton Hotel, Nairobi, Kenya. Organised by NASAC.

133. Makueni Pilot Project Policy Briefing Meeting, May 12<sup>th</sup> 2010, United Kenya Club, Nairobi, Kenya. **Project Scientist.**
134. Parliamentary Committees Sensitization Workshop on Climate Change, 8-9<sup>th</sup> October 2009, Mombasa Continental Hotel, Mombasa, Kenya. **Resource Person.**
135. Pre-AMCEN African Climate Change Scientists Meeting, 21-22 May 2009, ICRAF, Nairobi. Consultative Meeting. **Resource Person.**
136. National Launch of IYPE and 12<sup>th</sup> Geological Society of Kenya Conference, 17-19 March 2009, PanAfric Hotel, Nairobi. **Member of Organising Committee, Editor of Workshop Report.**
137. Global Change Research in Africa (GCR) Steering Committee Meeting, 19-21 June 2006, Pretoria, South Africa.
138. Kenya National Academy of Sciences (KNAS) 1<sup>st</sup> Strategic Planning Workshop, 11-13 May 2006, Garden Hotel, Machakos, Kenya
139. IPCC Working Group I Fourth Assessment Report, Third Lead Authors Meeting, 13-15 December 2005, University of Canterbury, Christchurch, New Zealand.
140. Workshop on Towards Market-Sensitive Training and Problem-Oriented Research Programmes in Environmental Chemistry, 6<sup>th</sup> September 2006, College of Insurance, Nairobi, Kenya. Hosted by Department of Chemistry, University of Nairobi.
141. The 11<sup>th</sup> World Lakes Conference, 31<sup>st</sup> October to 4<sup>th</sup> November 2005, Nairobi, Kenya. Organised by ILEC and Ministry of Water and Irrigation, Kenya. **Member of National Organising Committee; In Charge of Scientific Programme and Production of the Two Proceedings Volumes.**
142. African Global Change Research Organising Meeting, 23-24 June 2005, Pretoria, South Africa.
143. University of Nairobi Bachelor of Education (Science) Distance Learning Reviewers/Editors Workshop, Greenhills Hotel, Nyeri, 14<sup>th</sup> to 18<sup>th</sup> February, 2005.
144. Stakeholders Meeting on IGAD Environmental Outlook Process, 16-17 December 2004, UNEP, Nairobi, Kenya.
145. Remote Sensing and GIS Training Workshop. Held at Regional Centre for Mapping of Resources for Development, Nairobi, Kenya, 22<sup>nd</sup> October to 5<sup>th</sup> November 2004. Sponsored by START. **Co-organiser.**
146. IPCC Working Group I Fourth Assessment Report First Lead Authors Meeting, Abdus Salam International Centre for Theoretical Physics, Trieste, Italy, September 26-29, 2004.
147. Ecosystem Outlook for the Lake Victoria Basin Workshop, 2-4<sup>th</sup> September, 2004. Pan African START Secretariat (PASS). Sponsored by PASS/UNEP. **Co-organiser.**
148. National Workshop on Science and Technology Park Development for Sustainable Industrial Growth. Holiday Inn, Nairobi, Kenya, June 30<sup>th</sup> 2004. **Rapporteur General and Workshop Report Writing.**
149. University of Nairobi Distance Learning Reviewers Workshop, Matuu, Kenya, June 3-8, 2004.
150. Pan African Implementation and Partnership Conference on Water, Addis Ababa, Ethiopia, December 8-13, 2003.
151. International Young Scientists Global Change Conference, Trieste, Italy, November 17-19, 2003. **Co-organiser.**
152. PAGES meeting on High Latitude Palaeoenvironments, Moscow, Russia, May 16-17, 2002.

153. The East African Lakes - IDEAL Project. The African Pollen Database (APD) and SEARCH Workshop. Nairobi, Kenya, 22-26 October 2001. **Co-organiser.**
154. Global Change Open Science Conference, Amsterdam, The Netherlands, 10-13 July 2001.
155. Climate Variability in Africa. First International Workshop, 9-12 April 2001, Enugu, Nigeria.
156. Freshwater Resources in Africa Workshop, held at UNEP Headquarters, Nairobi, Kenya, 26-29 October 1999. **Local Organising Committee.**
157. 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, 3<sup>rd</sup> to 11<sup>th</sup> August 1999. **Session Organiser.**
158. All World Data Conference, ICSU Panel on World Data Centers, Asheville, NC, USA, 6-8 November, 2000.
159. GIS/Remote Sensing in Spatial Modelling and Environmental Training Workshop. Maputo, Mozambique, 13<sup>th</sup> to 18<sup>th</sup> July, 2000. Funded by PASS/START/Miombo Network. **Co-organiser.**
160. Workshop on South Asian Palaeoenvironments. Pune, India, 4-5 February 2000.
161. IDEAL Second International Symposium, Club Makokola, Malawi, 10<sup>th</sup> to 13<sup>th</sup> January, 2000. **Co-organiser.**
162. Freshwater Resources in Africa Workshop, held at UNEP Headquarters, Nairobi, Kenya, 26-29 October 1999. **Local Organising Committee.**
163. Saline-Alkaline Lakes in Eastern and Southern Africa Workshop. Nairobi, Kenya, 24<sup>th</sup> to 27<sup>th</sup> September, 2000. Funded by German Exchange Programme (DAAD) and UNESCO. **Co-organiser.** *Paper presented: [Physico-chemical processes in the saline alkaline lakes of Kenya.](#)*
164. 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, 3<sup>rd</sup> to 11<sup>th</sup> August 1999. **Session Organiser.**
165. East and Southern Africa Workshop in Geomedicine (ESARWG), 23 to 27 June 1999, Nairobi, Kenya.
166. 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.	Nowicki, S., Birhanub, B., Tanui, F., Sulee, M.N., Charles, K., <b>Olago, D.</b> , Kebede, S. (2023) Water chemistry poses health risks as reliance on groundwater increases: A systematic review of hydrogeochemistry research from Ethiopia and Kenya. <i>Science of The Total Environment</i> , Volume 904, 2023, 166929, ISSN 0048-9697, <a href="https://doi.org/10.1016/j.scitotenv.2023.166929">https://doi.org/10.1016/j.scitotenv.2023.166929</a>	7 Sept 2023
2.	Waga, D.D., Olago, D., Nyamai, H., Suprun, I., (2023) Age Revision of the Mariakani Formation of the Upper Duruma Group in South Lamu Basin of Kenya Based on Preliminary Calcareous Nannofossils Biostratigraphy. Vol. 8 pp 18-42.	30 August 2023
3.	Githiora, Y.W., Owuor, M.A., Abila, R., Oriaso, S., Olago, D.O. (2023) Perceptions, trends and adaptation to climate change in Yala wetland, Kenya. <a href="https://doi.org/10.1108/IJCCSM-07-2022-0089">https://doi.org/10.1108/IJCCSM-07-2022-0089</a>	28 August 2023
4.	Tanui, F., Olago, D., Ouma, G., Kuria, Z., Hydro chemical and isotopic characteristics of the Lodwar Alluvial Aquifer System (LAAS) in Northwestern Kenya and implications for sustainable groundwater use in dryland urban areas. Pp 105043, <a href="https://doi.org/10.1016/j.jafrearsci.2023.105043">https://doi.org/10.1016/j.jafrearsci.2023.105043</a>	21 August 2023
5.	Downing, T., Olago, D Nyumba T., Role of history in shaping perceptions of climate change in the alpine areas of Kenya. Pp 1-20, <a href="https://www.tandfonline.com/doi/abs/10.1080/17531055.2023.2237266">https://www.tandfonline.com/doi/abs/10.1080/17531055.2023.2237266</a>	21 August 2023
6.	Baxter, A.J., Verschuren, D. Peterse, F., Miralles, D.G., Martin-Jones, C.M., Maitituerti, A., Van der Meeren, T., Daele, V.M., Lane, C.S, Haug, G.H., Olago, D., Damsté S.J., (2023) Reversed Holocene temperature–moisture relationship in the Horn of Africa. Vol. 620 pp 336-343, <a href="https://www.nature.com/articles/s41586-023-06272-5">https://www.nature.com/articles/s41586-023-06272-5</a>	10 August 2023
7.	Downing, T., <b>Olago, D.</b> , Nyumba, T., 2023. Perceptions of Ecosystem Services and Climate Change in the Communities Surrounding Mt. Kenya and Mt. Elgon, Kenya. <i>Sustainability</i> 2023, 15, 11470. <a href="https://doi.org/10.3390/su151411470">https://doi.org/10.3390/su151411470</a>	24 July 2023
8.	Downing, T., <b>Olago, D.</b> & Nyumba, T. (2023): Role of history in shaping perceptions of climate change in the alpine areas of Kenya, <i>Journal of Eastern African Studies</i> , DOI: 10.1080/17531055.2023.2237266. <a href="https://doi.org/10.1080/17531055.2023.2237266">https://doi.org/10.1080/17531055.2023.2237266</a>	20 Jul 2023
9.	Karimi, J.K, Ngumba, E., Ahmad, A., Duse, G.A., Olago, D., Ndwigah, N.S., Mwanthi, A.M., Ayah, R., Dulo.S., (2023) Contamination of groundwater with sulfamethoxazole and antibiotic resistant <i>Escherichia coli</i> in informal settlements in Kisumu, Kenya Vol. 2, pp e0000076 <a href="https://journals.plos.org/water/article?id=10.1371/journal.pwat.0000076">https://journals.plos.org/water/article?id=10.1371/journal.pwat.0000076</a>	24 April 2023
10.	Njenga, S. Olago, D., Kituyi, E., Médard, C., Impact of Climate Change on Mangrove Dependent Livelihoods through Climate Justice Lens in Lamu County, Kenya, <a href="https://eartharxiv.org/repository/view/5271/">https://eartharxiv.org/repository/view/5271/</a>	14 April 2023
11.	Elameen, M.N., Jin, S., Olago D., Identification of Drought Events in Major Basins of Africa from GRACE Total Water Storage and Modelled Products. <i>Photogrammetric Engineering &amp; Remote Sensing</i> , 89(4): 221-232, <a href="https://doi.org/10.14358/PERS.22-00092R2">https://doi.org/10.14358/PERS.22-00092R2</a>	4 April 2023

12. Gno-Solim Ela N, Olago D, Akinyi AD, Tonnang HEZ (2023) Assessment of the effects of climate change on the occurrence of tomato invasive insect pests in Uganda. *Heliyon*, 9(2):e13702. doi: 10.1016/j.heliyon.2023.e13702. PMID: 36865473; PMCID: PMC9971177. 15 Feb 2023
13. Sang, C.C., Olago, D.O. & Onger, Z.J. (2023) The factors driving land cover transitions and land degradation and the potential impacts of the proposed developments in the Isiolo dam watershed, LAPSSET corridor, Kenya. *Discov Sustain* 4, 9 (2023). <https://doi.org/10.1007/s43621-023-00126-w> 13 Feb 2023
14. Dennis M. Njagi, Joyanto Routh, Moses Odhiambo, Chen Luo, Laxmi Gayatri Basapuram, **Daniel Olago**, Val Klump, Curt Stager (2022) A century of human-induced environmental changes and the combined roles of nutrients and land use in Lake Victoria catchment on eutrophication. *Science of The Total Environment*, <https://doi.org/10.1016/j.scitotenv.2022.155425>. 20 Aug 2022
15. Olaka, L.A., Musolff, A., Kasemann, S.A., Sültenfuß, J., Wilke, F.D.H., **Olago, D.O.**, Mulch, A. (2022) Tectonic Control of Groundwater Recharge and Flow in Faulted Volcanic Aquifers. *Water Resources Research*, 58, e2022WR032016. <https://doi.org/10.1029/2022WR032016> 19 Jul 2022
16. Bonzemo, S.B., **Olago, D.O.**, Olaka, L. and Amwata, D.A. (2022) The Impacts of Climate Change on Livelihoods in Kapsokwony Division in Mt. Elgon SB-County, Kenya. *Journal of Agriculture and Environmental Sciences*, 11(1), pp. 1-19. DOI: 10.15640/jaes.v11n1a1; URL: <http://dx.doi.org/10.15640/jaes.v11n1a1> Jun 2022
17. Callum Munday, Sebastian Engelstaedter, Gilbert Ouma, Geoffrey Ogutu, Daniel Olago, Dennis Ong'ech, Thomas Lees, Bonface Wanguba, Rose Nkatha, Clinton Ogalo, Roba Ali Gãgalo, Abdi Jillo Dokata, Erick Kirui, Robert Hope, Richard Washington (2022) Observations of the Turkana Jet and the East African dry tropics: the RIFTJet field campaign. *Bulletin of the American Meteorological Society*, <https://doi.org/10.1175/BAMS-D-21-0214.1> 13 May 2022
18. Githiora-Murimi, Y.W., Owuor, M.A., Abila, R., Olago, D. and Oriaso, S. (2022) Integrating stakeholder preferences into ecosystem services mapping in Yala wetland, Kenya. *Ecosystems and People*, Vol. 18 (1), 146–163 <https://doi.org/10.1080/26395916.2022.2039774> 11 Mar 2022
19. Cohen, A.S., Campisano, C.J., Arrowsmith, J.R., Asrat, A., Beck, C.C., Behrensmeyer, A.K., Deino, A.L., Feibel, C.S., Foerster, V., Kingston, J.D., Lamb, H.F., Lowenstein, T.K., Lupien, R.L., Muiruri, V., Olago, D.O., Owen, R.B., Potts, R., Russell, J.M., Schaebitz, F., JStone, J.R., Trauth, M.H., Yost, C.L. (2022) Reconstructing the Environmental Context of Human Origins in Eastern Africa Through Scientific Drilling. *Annual Review of Earth and Planetary Sciences*, <https://doi.org/10.1146/annurev-earth-031920-081947> February 25, 2022
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- Muderhwa Nshombo, Gaspard Ntakimazi, Chrispine Nyamweya, Joyce Ikwaput Nyeko, Daniel Olago, Tekle Olbamo, Catherine M. O'Reilly, Natacha Pasche, Harris Phiri, Nina Raasakka, Anham Salyani, Claver Sibomana, Greg M. Silsbe, Stephanie Smith, Robert W. Sterner, Wim Thiery, Janvier Tuisenge, Martin Van der Knaap, Maarten Van Steenberge, Paul A.M. van Zwieten, Erik Verheyen, Mulugeta Wakjira, John Walakira, Oscar Ndeo Wembo, Theodore Lawrence. Need for harmonized long-term multi-lake monitoring of African Great Lakes. *Journal of Great Lakes Research*, <https://doi.org/10.1016/j.jglr.2022.01.016>
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  22. Syvitski, J., Ángel, J.R., Saito, Y., Overeem, I., Vörösmarty, C.J., Wang, H. & Olago, D. (2022) Earth's sediment cycle during the Anthropocene. *Nat Rev Earth Environ* 3, 179–196 (2022). <https://doi.org/10.1038/s43017-021-00253-w> 01 February 2022
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  25. Triboan D., Obonyo, E., Ayesh, A., Yerima, S.Y., Basak, B., Wang'ombe, W., Olago, D., Olaka, L.A., Sznajder, K.K., Madivate, C. (2022) "A Transdisciplinary Framework for AI-driven Disaster Risk Reduction for Low-income Housing Communities in Kenya," 2021 IEEE International Conference on Systems, Man, and Cybernetics (SMC), 2021, pp. 188-193, <https://doi.org/10.1109/SMC52423.2021.9658957> 11 January 2022
  26. Ngure, M.W., Wandiga, S.O., Olago, D.O. and Oriaso, S.O. (2021) Climate change stressors affecting household food security among Kimandi-Wanyaga smallholder farmers in Murang'a County, Kenya. *Open Agriculture* 2021; 6: 587–608. <https://www.degruyter.com/document/doi/10.1515/opag-2021-0042/html> 27 Oct 2021
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## **b) Peer Reviewed Book Chapters**

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122.	<b>Olago, D.O.</b> , Raini, J., Omuombo, C., Ogonda, G., Muli, J., Okello, C., Memo, W. and Ong'ang'a, O. (2021) Lentic-Lotic Water System Response to Anthropogenic and Climatic Factors in Kenya and their Sustainable Management. In: S. Diop, P. Scheren, I. Niang (Eds), <i>Climate Change and Water Resources in Africa</i> . Springer.	Feb 2021
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#### 14. MEDIA

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<https://www.youtube.com/watch?v=LFiPwVhdn10&feature=youtu.be>
2. Kenya Broadcasting Corporation (KBC) Feature on groundwater in Nairobi aired on Sunday 24<sup>th</sup> November 2019. <https://www.youtube.com/watch?v=ATpygflmkC8>
3. The Clean Water Conference, Lake Basin region, Acacia Premier Hotel, 6-7 November 2019. Panelist: Panel 6: Pollution, climate change and its effects in the lake basin region. <https://cleanwaterconference.com/>

#### 15. CERTIFICATION

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

Daniel Olago

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Signature

.....29/08/2023.....  
Date

#### 16. REFEREES

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