



## CURRICULUM VITAE

### **Associate Prof. Denis Kalumba**

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#### **Education**

- 2006 - 2008 **Post-Doctoral in Geotechnical Engineering** - University of Newcastle upon Tyne, United Kingdom
- 2006 **PhD in Geotechnical Engineering** – University of Newcastle upon Tyne, United Kingdom
- 1999 **M.Sc. Civil Engineering (Geotechnical)** – University of Cape Town, South Africa
- 1994 **B.Sc. Civil Engineering** – Makerere University Kampala, Uganda

**Professional Affiliations:** Associated Society Member - Institution of Civil Engineers (UK); Member - British Geotechnical Association (UK); Member - International Society for Soil Mechanics and Geotechnical Engineering; Member - International Geosynthetics Society; Associate Member - South African Institution of Civil Engineering (RSA); Member - Geosynthetics Interest Group of South Africa (RSA).

#### **Academic Work Experience:**

- 2018 to Date Associate Professor, Department of Civil Engineering, University of Cape Town (South Africa) – In charge of all Undergraduate and Postgraduate Geotechnical Engineering courses.
- 2009 to 2017 Senior Lecturer, Department of Civil Engineering, University of Cape Town (South Africa) – In charge of all Undergraduate and Postgraduate Geotechnical Engineering courses.
- 2016 to Date Visiting Lecturer, Department of Civil and Environmental Engineering, University of Namibia (Namibia) – In charge of all Geotechnical Engineering courses.
- 2009 to 2011 Visiting Lecturer, Department of Civil Engineering, Makerere University, Uganda).
- 2006 - 2008 Post-Doctoral Fellow at University of Newcastle upon, (United Kingdom).
- 2004 - 2006 Research Associate at University of Newcastle upon Tyne, (United Kingdom).
- 2003 - 2004 Research Assistant, Electrokinetic Limited, Newcastle University, (United Kingdom).
- 1996 - 2009 Lecturer, Department of Civil Engineering, Makerere University, (Uganda).
- 1994 - 1996 Teaching Assistant, Department of Civil Engineering, Makerere University, (Uganda).

#### **Current Public and Professional Service - National/International Committees:**

- Member of the Technical Committee (TC102) of the International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE). The ISSMGE is the highest professional body in Soil Mechanics and Geotechnical Engineering in the world.
- Appointed by the Zambian Higher Education Authority to review the Civil Engineering curricula for new and existing Universities in Zambia. I am tasked to audit curricula and

facilities at the institutions registering to offer Civil Engineering Programs and to advise existing Civil Engineering Departments on how they can improve the delivery of their programs

- Appointed and Member of the South African Bureau of Standards Special Committee TC98/SC 006. Committee is tasked with creating a coherent system of geotechnical engineering design standards for South Africa.
- Appointed by the National Home Builders Registration Council to train all housing inspectors in South Africa in basic soil mechanics, soil tests and geotechnical field investigations.
- Currently a member of a Panel of three International Experts (underground) for the construction of the proposed Karuma Hydropower Project (600 MW) in Uganda.

**Publications:** Over 70 conference and journal papers and 4 articles in popular professional magazines. List available on request.

**Major reports and theses:** 10 Reports and 1 Thesis. List available on request.

**Academic Conferences:** Been on organizing committees of one national and one international conferences. Currently Chair of Organizing Committee for the 17<sup>th</sup> African Regional Conference for Soil Mechanics and Geotechnical Engineering (XVII ARCSMGE 2019) to take place in Cape Town in 2019.

**Conference presentations:** Presented at over 20 conferences including over 10 overseas international conferences.

**Conference Plenary Session Chair:** 1 International conference in 2015 and 1 National conference (2016).

**Editorial Boards:** African Geotechnical Journal; International Journal on Civil Engineering & Urban Planning; Southeast Asian Geotechnical Society and Association of Geotechnical Societies in South East Asia journal.

**External Examiner:** For 5 Universities in South Africa and 2 international universities.

**Research Supervision:** 21 MSc supervised to graduation (including co-supervision of 2 from international university). Currently supervising 3 PhDs and over 20 master's students.

**Curriculum development:** Responsible for development of several curriculums.

- a) Developed and implemented two completely new postgraduate programs at UCT: i.e. MSc in Geotechnical Engineering and Professional Masters in Geotechnical Engineering. Currently in charge of these two highly successful programs;
- b) Developed and implemented curriculum for 8 completely new postgraduate courses at UCT: i.e. Advanced Soil Mechanics, Ground Improvement Techniques, Contaminated Land & Remediation, Geosynthetics Engineering, Slope Stability, Lateral Earth Supports, Foundation Design, and Laboratory & Field Techniques. Currently convening all the 8 courses;
- c) Developed the Master of Science (Geotechnical Engineering) program for Makerere University – Uganda.
- d) Part of Committee which worked for The National Council for Higher Education (Uganda) project responsible for developing Credit Accumulation and Transfer System for East Africa Engineering Courses. Document was published and became norm in East Africa