

CURRICULUM VITAE

A. BIOGRAPHICAL DATA

NAME: **DR. BENARD OTIENO OMONDI**
CURRENT ADDRESS: Moi University
Department of Civil and Structural Engineering
P.O BOX 3900-30100, ELDORET
PHONE NO: +254 721 712 569
E-MAIL: bomondi2006@gmail.com or bomondi@mmust.ac.ke
DATE OF BIRTH: 3RD NOVEMBER 1981
NATIONALITY: KENYAN
MARITAL STATUS: MARRIED

B. CAREER OBJECTIVES

- Integrate knowledge in Civil and Structural Engineering, construction management and administration.
- Create and implement viable design projects with respect to Civil and Structural Engineering projects.

C. AFFILIATIONS

- **Registered Graduate Engineer (B5351)**, Engineers Board of Kenya (EBK).
- **Registered Graduate Member (G.4415)**, Institution of Engineers of Kenya (IEK)

D. PERSONAL ASSESSMENT

Articulate communicator with strong written and oral communication skills, quick to learn, a good team player and a dynamic leader with good management qualities.

E. RESEARCH INTERESTS

- Affordable Housing
- Structural Eurocodes
- Finite Element Modelling / Finite Element Analysis
- Concrete Technology
- Inspection Techniques for Structures and Structural Materials
- Repair and Maintenance of Structures

F. EDUCATIONAL BACKGROUND

I. TERTIARY EDUCATION

- a) Duration: March 2011 to April 2015
Institution: Vrije Universiteit Brussels (VUB)
Programme: PhD in Engineering (Applied Sciences)
Dissertation title: **"A Methodology for Crack Monitoring in Structural Concrete by Combined Digital Image Correlation and Acoustic Emission Techniques"**
Award: PhD in Engineering (**Greatest Distinction**)
- b) Duration: January 2008 to December 2010
Institution: Moi University
Programme: Master of Science in Structural Engineering

Thesis title: **“Numerical Modelling of Prestressed Concrete Sleepers for Kenyan Railway”**

Award: Master of Science in Structural Engineering

- c) Duration: August 2002 to October 2007
Institution: Moi University
Programme: Bachelor of Technology in Civil and Structural Engineering
Final year project: **“Research on the Use of Prestressed Concrete Sleepers for Kenyan Railway”**
Award: Bachelor’s Degree (First Class Honours)

II. SECONDARY EDUCATION

Duration: 1997 to 2000
Institution: Uriri High School
Responsibility: Dormitory Captain
Performance: B+ (plus)

III. PRIMARY EDUCATION

Duration: 1989 to 1996
Institution: Ng’ong’a Primary School
Performance: 450 out of 700

G. WORKING EXPERIENCE

S.No.	Period	Position	Employer
1	Dec 2018 to date	Lecturer	MMUST
2	June 2017 to Dec 2018	Lecturer	Moi University
3	March 2012 to June 2017	Assistant Lecturer	Moi University
4	Nov. 2007 to March 2012	Graduate Assistant	Moi University
5	May 2006 – August 2006	Intern	Howard Humphrey’s (EA) Consulting Engineers

H. OTHER RELATED WORKING EXPERIENCE

- I **June 2015 to 2017:** Member of the adhoc committee on the Introduction of Structural Eurocodes in Kenya, a project jointly planned by Moi University and Kenya Bureau of Standards.
- II **2012 to date:** Director, CivEng Consulting Engineers limited: Conducting both preliminary and final designs of projects, supervision of construction works, preparation of bill of quantities and other administrative duties for smooth operation of the company.
- III **Sept. to Nov. 2010:** Preparation of technical specifications of equipments to be used in TIVET institutions for the Ministry of Higher Education, Science and Technology
- IV **July to Aug. 2009:** Representative of the department of civil and structural engineering in the preparation of list of equipment for the proposed Ultra-Modern laboratory for the School of Engineering, Moi University.

I. UNIVERSITY/DEPARTMENT RELATED APPOINTMENTS

- I **September 2016 to Dec 2018:** Coordinator, curriculum review for the department of Civil and Structural Engineering, Moi University
- II **25th to 27th May 2016:** Acting Head of Department, Department of Civil and Structural Engineering, Moi University
- III **18th Feb to 16th Sept 2016:** School of Engineering Symposium Coordinator for the Moi University 11th International Conference
- IV **29th Feb 2016 to Dec 2018:** Adhoc committee member of Income Generating Unit for the Department of Civil and Structural Engineering

J. WORKSHOPS AND SHORT-COURSES ATTENDED

- 1st to 5th July 2019:** Training of trainers on Structural Eurocodes held in Gelian Hotel, Machakos
- 3rd to 7th June 2019:** Integrity Assurance Officers' Training held at JOOUST, Bondo
- 28th to 30th Sept 2016:** Technical workshop on Structural Eurocodes held in Laico Regency Hotel, Nairobi
- 18th to 20th May 2016:** Technical workshop on Structural Eurocodes held in Mombasa Beach Hotel, Mombasa
- 1st Feb to 19th October:** Tuning Africa Online Course on "Course Design for Outcomes based learning in higher education"
- 13th to 14th Feb 2012:** Workshop on Introduction of Structural Eurocodes in Kenya at Sirikwa Hotel, Eldoret
- 16th to 19th May 2011:** DIANA software application to reinforced concrete structures training in Delft University of Technology, The Netherlands
- 30th Aug to 2nd Sept 2010:** Workshop on Diverse Uses of Concrete V with the Theme: *Asphalt Pavements and Quality of Concrete* at CICADA Hotel, Eldoret
- 28th March to 2nd March 2010:** DIANA software application to reinforced concrete structures training in Turkey
- 23rd to 26th February 2009:** Workshop on Diverse Uses of Concrete IV with the Theme: *Repair and Maintenance of Concrete* at Lenana Mount Hotel, Nairobi
- 17th to 20th February 2009:** Workshop on Curriculum Review of Undergraduate Programme of Civil and Structural Engineering of Moi University at Sirikwa Hotel, Eldoret
- 16th to 20th June, 2008:** GIS training on ArcView 3.3 held at Learning Resource Centre, Eldoret
- 31st March 2007:** Training Workshop on Project Management and Job Search Skills at Moi University
- Other Civil & Structural application:** AutoCAD, Staadpro, ABAQUS, ANSYS, Matlab, Microsoft Office suite.

K. PUBLICATIONS

- [1] **B. Omondi, S. Shitote, H. Sol,** *Simulation of Homologation Procedure for Prestressed Concrete Sleepers*, Moi University 6th international conference, 7th Sept 2010, Moi University, Kenya

- [2] **B. Omondi**, H. Sol, S.M. Shitote, *Finite Element Simulation of the Quasi-static Homologation Procedure for Prestressed Concrete Sleepers*, in J. Pombo, (Editor), Proceedings of the First International Conference on Railway Technology: Research, Development and Maintenance, Civil-Comp Press, Stirlingshire, UK, Paper 38, 2012. doi:10.4203/ccp.98.38
- [3] **B. Omondi**, D. Aggelis, H. Sol, C. Sitters, *Acoustic Emission Behaviour of Prestressed Concrete Sleepers Under Quasi-Static Homologation Testing*, Conference Proceedings of the 31st European Conference on Acoustic Emission (EWGAE 2014), September 3 – 5, 2014, Dresden, Germany.
- [4] **B. Omondi**, *A methodology for Crack Monitoring in Structural Concrete by Combined Digital Image Correlation and Acoustic Emission Methods*, PhD Dissertation, Vrije Universiteit Brussels, 2015, Crazy Copy Centre Productions, ISBN: 9789082368123
- [5] **B. Omondi**, D. G. Aggelis , H. Sol , C. Sitters, *Improved Crack Monitoring in Structural Concrete by Combined Acoustic Emission and Digital Image Correlation Techniques*, Journal of Structural Health Monitoring, 2016, Vol. 15(3) 359–378

L. REFEREES

Prof. Stanley M. Shitote Professor of Civil Engineering Moi University P.O. BOX 3900, Eldoret. Tel. +254 733 678 884 E-mail: shitote@mu.ac.ke	Prof. Mellitus N. Wanyama Associate Professor of Musicology, Moi University, P.O. Box 3900, Eldoret. Tel : +254 722 313 515 Email: wanyamam@yahoo.co.uk	Prof. Augustine Makokha Associate Professor of Mechanical Engineering, Moi University P.O. BOX, 3900 Eldoret Tel. +254 722 140 582 E-mail: augustine.makokha@gmail.com
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