

RESUME

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EDUCATION BACKGROUND:

Doctor of Philosophy (Construction Economics/Management), 2008

University of Cape Town, South Africa.

Joseph Arenow Prize for best PhD thesis in Faculty of Engineering and the Built Environment, University of Cape Town, 2008

Master of Engineering (Building), 1992

Concordia University, Montreal, Quebec.

Major: Project Management. Graduated with GPA of 3.58

Bachelor of Arts (Building Economics), 1986,

University of Nairobi, Nairobi, Kenya. Major: Building Economics.

Graduated with Upper Second Class Honours.

International Labour Productivity Benchmarking Workshop, 2000

CIB, University of Zagreb, Croatia

Project Management, Advanced International Training Programme, 1998, ProjektStyrning AB, Stockholm, Sweden.

Continuous Professional Development Programmes, 1998 to date,

Architects and Quantity Surveyors Education Board of Kenya.

Arbitrators Associate Membership Entry Course, 1997,

The Chartered Institute of Arbitrators (Kenya Branch), Nairobi, Kenya.

Interpersonal Management Development Skills for Senior Women Managers in the Public Sector, 1993,

Kenya Institute of Administration, Nairobi, Kenya.

Registered Quantity Surveyor, (Q271) 1989,

Board of Registration of Architects and Quantity Surveyors, Nairobi, Kenya.

Project Development and Management Course, 1989,

Kenya Institute of Administration, Nairobi, Kenya.

Quantity Surveying Professional Examination, 1988,

Architectural Association of Kenya, Nairobi, Kenya.

OTHER TRAINING:**Five-day corporate governance training course for Directors, 2012**

- Centre for corporate governance, August 27-31 2012
- Passed exams

Research and grant proposal writing, 2011

- Trained by University of Nairobi Enterprises and Services Ltd

Internal quality auditing, 2008

- Trained and KBS certified internal quality auditor
- Attended internal quality auditing refresher courses, 2009-2011
- Participated five internal quality audit surveillances at UON under the direction of ISO centre

E-learning training, 2004

- Trained by ICT department UON on e-learning
- Developed e-learning course content for one unit BQS/BLE 206: Building/Construction materials

**WORK EXPERIENCE:
MAR 2011 TO PRESENT****SENIOR LECTURER, RESEARCHER AND PRACTISING REGISTERED QUANTITY SURVEYOR, UNIVERSITY OF NAIROBI, DEPARTMENT OF REAL ESTATE AND CONSTRUCTION MANAGEMENT, NAIROBI, KENYA.**

- Duties as below but with additional responsibility
- Chairman, Jury for One million shilling house design competition by Home Afrika, November 2011
- Member, Education and Training Board, Africa Association of Quantity Surveyors, August 2011
- External Examiner, Jomo Kenyatta University of Agriculture and Technology, Department Construction Management, School of Architecture and Building Sciences, October 2011 to date
- Chairman of the Technical Evaluation Committees for four construction tenders for University of Nairobi
- Member and contributor to the Standard Method of Measurement of Building and Associated Civil Works for Eastern Africa, Second Edition, review committee – published June 2008 (official launch 2012)
- Chief Examiner, Professional Examinations 2010 - 2012 - Board of Registration for Architects and Quantity Surveyors

OCT. '93 TO MAR 2011

LECTURER, RESEARCHER AND PRACTISING REGISTERED QUANTITY SURVEYOR, UNIVERSITY OF NAIROBI, DEPARTMENT OF REAL ESTATE AND CONSTRUCTION MANAGEMENT, NAIROBI, KENYA.

DUTIES:

- Teaching undergraduate and postgraduate courses
- Supervising undergraduate and postgraduate research projects
- Writing papers published in the local construction journal & writing research proposals
- Departmental representative to the Africa Habitat Review Editorial Board
- Review of papers for publication in professional journals
- Revision of the Standard Method of Measurement
- Formulation of CPD programmes
- Member of the Editorial Board, 'The Quantity Surveyor' – Journal of the Institute of Quantity Surveyor of Kenya
- Converting the Joint Building Council monthly construction price list from absolute price format to indices (1977 – 1995), devising new practice notes and testing the indices
- Construction work study
- Practicing in all aspects of the Quantity Surveying profession
- Examiner, Professional Examinations 1999 to 2010 - Board of Registration for Architects and Quantity Surveyors
- Chief Examiner, Professional Examinations 2010 - Board of Registration for Architects and Quantity Surveyors

APR. '93 TO SEP. '93

SUPERINTENDING QUANTITY SURVEYOR, MINISTRY OF PUBLIC WORKS, NAIROBI, KENYA.

DUTIES:

- All the duties of a Quantity Surveyor as below
- Supervising and training Assistant Quantity Surveyors
- In-charge of a team of Quantity Surveyors, a secretary and a messenger; supervising all their work, implementing all the projects in the team, general control and administration of the team.
- In-charge of the Cost Planning Unit which was charged with the collection and dissemination of construction material prices, the formulation of reasonable market rates to be used in the preparation of estimates and assessment of public sector contract variations and contractual claims.

FEB. '90 TO MAR. '93

**QUANTITY SURVEYOR
MINISTRY OF PUBLIC WORKS, NAIROBI, KENYA.**

DUTIES:

- Preparation of tender documents and Bills of Quantities
- Estimating and analysis of tenders
- Supervision of construction
- Valuation for interim and final payments
- Contract administration
- Evaluation of claims
- Advising client ministries on the viability of project proposals
- Monitoring and control of construction projects.

AUG. '86 TO FEB. '90

**ASSISTANT QUANTITY SURVEYOR,
MINISTRY OF PUBLIC WORKS, NAIROBI, KENYA.**

DUTIES:

As Quantity Surveyor above but under supervision.

PUBLICATIONS

REFEREED JOURNAL:

Africa Habitat Review Volume 6 Number 6 (August 2012)

- Intelligent Buildings in Kenya, Charles Ogutu and Njeri Wachira-Towey, page 425-430, Architecture and Urbanism in East Africa, Journal of School of the Built Environment, University of Nairobi

Africa Habitat Review 4 (2010)

- Funding craftsmen training in an informal dominated Kenyan construction sector, Architecture and Urbanism in East Africa, Journal of School of the Built Environment, University of Nairobi

BOOK CHAPTER:

**INFORMAL LABOUR IN THE CONSTRUCTION
INDUSTRY IN KENYA: A CASE STUDY OF NAIROBI**

- ILO Working Paper under the Sectoral Activities Programme No. A 100 20499 999 May 2003, written in conjunction with Winnie V. Mittullah

**CONFERENCE
PROCEEDINGS:**

International cost engineering council 8th ICEC world congress, Durban, South Africa : 23 - 27 June 2012

- Sylvester Oluoch and Njeri Wachira-Towey (2012) An investigation into the use and application of knowledge management by quantity surveying firms in Kenya. In: (Eds.), Prof. R.G. Pearl and Prof.J.J.P. Verster, *Proceedings of International cost engineering council 8th ICEC world congress*, ISBN: 978 0 86886 808 0, ICEC2012 – 50,

Construction In Developing Countries, Hanoi Vietnam, 2011

- Wachira N. (2011) Skill certification amongst informal construction craftsmen in Kenya. In: Ben Obinero Uwakweh (Ed.), *Proceedings of the International Council Hanoi 2011- Innovation and Sustainable Construction in Developing Countries; Construction Publishing House Hanoi, 201; (243-248)1156-2011/CXB/01-119/XBXD*

5th Africa Association of Quantity Surveyors General Assembly, Mombasa August 2011

- Wachira I. N. (2011) Training of Quantity Surveyors in Kenya

ICCIDC-II, Egypt, 2010

- Wachira, N and Root, D (2010) The growth of Informal Skills Development among Construction Craftsmen in Kenya. In: Syed M. Ahmed, Sarosh H. Lodi, Rizwan U. Farooqui, Muhammad Saqib, Mohamed El Agroudy (Eds.), *Second International Conference on Construction in Developing Countries, 3-5 August 2010, Fairmount Helipolis and Towers, Cairo. (795-804) ISBN: 1-884342-02-4*

ARCOM 2009, Nottingham, 2009

- Root, D and Wachira, N (2009) A legacy of empire: the imposition, evolution and failure of construction skills training systems in Kenya and South Africa. In: Dainty, A R J (Ed.), *25th Annual ARCOM Conference, 7-9 September 2009, Albert Hall, Nottingham. Association of Researchers in Construction Management, Vol. 1, 665-74. ISBN/ISSN:978-0-9552390-1-4,*
 - [URL:http://www.arcom.ac.uk/publications/procs/ar2009-0665-0674_Root_and_Wachira.pdf](http://www.arcom.ac.uk/publications/procs/ar2009-0665-0674_Root_and_Wachira.pdf)

COBRA 2008, Dublin, 2008

- The growth of informal skilling among construction craftsmen in Kenya, Njeri Wachira, David Root, Paul Bowen, and Washington Olima. RICS, COBRA 2008, London, 2008. ISBN: 9781842194348 available at www.rics.org

ARCOM 2008, Cardiff, 2008

- Wachira, N, Root, D, Bowen, P and Olima, W (2008) Changing craft skills in the Kenyan construction sector. *In: Dainty, A (Ed.), 24th Annual ARCOM Conference*, 1-3 September 2008, Cardiff, UK. Association of Researchers in Construction Management, Vol. 1, 63-71. ISBN/ISSN:978-0-9552390-1-4
 - URL:http://www.arcom.ac.uk/publications/procs/ar2008-63-71_Wachira_et_al.pdf

CIB World Building Congress, Cape Town, 2007

- Wachira, I., Root, D.S., Bowen, P.A. and Olima, W. 2007. The declining role of the general contractor in the Kenyan construction sector. In T.C. Haupt and R. Milford (eds), *Proceedings of CIB World Building Congress 2007*, 14-17 May 2007, Cape Town. Pretoria: CIB conference. ISBN 10920-01704-6.

CIDB Post graduate conferences

- Wachira, N., Olima, W., Root, D. and Bowen, P. (2006). 'Characteristics of the Kenyan construction sector and associated impacts on the training of site production workers'. In *Proceedings of the 4th CIDB Post Graduate Conference on Construction Industry Development*, Stellenbosch, 8 -10 October 2006. pp 163-175.
- Wachira, N., Root, D.S., Bowen, P.A. and Olima, W. (2007) 'An investigation into informal craft skilling in the Kenyan and South African construction sectors'. In *Proceedings of the 5th CIDB Post Graduate Conference on Construction Industry Development*, Bloemfontein, 8 -10 October 2007.

THE CONSTRUCTION INDUSTRY IN THE 21ST CENTURY: ITS IMAGE, EMPLOYMENT PROSPECTS AND SKILL REQUIREMENTS

- Case study of Kenya for ILO, 2002

FIG INTERNATIONAL CONFERENCE, Nairobi, Kenya, 2001

- The role of the Professional Quantity Surveyor in Informal Construction sector

CIB W65 &W55 Symposium, Cape Town, South Africa, 1998

- Labour productivity in the Kenyan Construction Industry

OTHER PUBLICATIONS:

Construction Review, Journal of the Construction Industry

- Construction Management
- Hard Times in the Construction Industry
- The Contractor and Fluctuations based on the JBC Price List
- V.A.T. in Construction

IQSK Newsletter

- VAT and the Construction Industry
- Current Construction Rates

The Quantity Surveyor, Journal of the Institute of Quantity Surveyors of Kenya

- Payment of Contractors via Treasury Bonds
- Quantity Surveyors Bill 2010

PHD SUPERVISION:

Mutuma N. K. - Sustainable construction site activities: evaluation of their impacts and management - ongoing

PHD EXAMINATION:

Internal examiner and overseer of correction for Philip K. Muchungu: Title – The contribution of human factors in construction project in Kenya – A case study of construction team participants in Kenya, December 2011

Member of the board of examiners for Mr. Samuel Mwituria Maina: Title – Integration of an eco-ethical strategy into product life cycle in Nairobi, March 2011

MASTERS SUPERVISION:

Graduated students:

- G. Muiruri, 2012 A study on the health and safety management on construction project sites in Kenya: Case study of Nairobi city
- M. A. Nyakiongora, 2005 Health and safety in construction

Current:

- Supervising the following students:
 - A.W. Kinuthia -_the role of construction management software in modern building projects: a case study of construction firms in Nairobi, Kenya.
 - G.W. Wahome - evaluating the application of the public procurement oversight authority act in the construction industry of Kenya
 - F. M. Gitaka – Industrial training in Kenya: A case study on skilling for Building trades in Nairobi
 - J.R. Nyamboki - Causes and severity of workplace low back pain experienced by steel fixers and it’s effects on the productivity and efficiency of the worker
 - H. Karu – An investigation into the enforcement and compliance of OSHA act of 2007

Examined:

- G. M. Maina – The impact of the type of construction contract on project performance in Kenya (2011)
- Onyango K. Okal – A comparative study into the effectiveness of various cement brands used in construction projects in Nairobi (2011)
- Otieno S. Olivia – An investigation into the practice of corporate social responsibility in the construction industry in Kenya: A case of contractors, Nairobi (2012)
- Aidah N. Munano - Preconstruction planning: Exploring the factors that influence timeliness of project completion for public sector buildings in Kenya (2012)
- James N. Kimani - Developing a framework for communication planning in the management of construction projects: A comparative case study of five project management firms in Nairobi, Kenya (2012)
- Edith M. Muinde - A study on the impact of contractor-subcontractor relationships on the performance of construction projects – A case study of the Kenyan construction industry

CONFERENCES AND WORKSHOPS ATTENDED:

BORAQS Architects and quantity surveyors education board of Kenya workshop on Building Professionals in the New Dispensation, Nairobi May, 2013

IQSK workshop on Back to the Basics of Quantity Surveying, Nairobi February 2013

IQSK workshop on Changing trends in the construction industry, Nairobi October 2012

BORAQS Architects and quantity surveyors education board of Kenya workshop on Emerging project delivery models and professional practice, Nairobi September 2012

5th Africa Association of Quantity Surveyors General Assembly, Mombasa August 2011

BORAQS workshop on Practice in East Africa Community Under Common Market Protocol, Nairobi June 2011

USETEC Trade Fair on construction technology, equipment and machinery, April 2011, Cologne Germany

IQSK workshop on The Construction Industry in the New Constitutional Dispensation, Nairobi, February 2011

Second International Conference on Construction in Developing Countries, Advancing and Integrating Construction Education, Research and Practise, August 2010, Cairo

IQSK workshop on Quantity Surveyors Bill 2010, Nairobi, October 2010

BORAQS workshop on The Economic Stimulus Programme and its effect on the Building Industry, Nairobi September 2010

BORAQS workshop on Built Environment and Climate Change, Nairobi May 2010

IQSK workshop on Diversifying the Quantity Surveying Profession, Nairobi, July 2009

BORAQS workshop on Opportunities and challenges in the construction industry in anew metropolis, Nairobi April 2009

BORAQS workshop on Building and Leading a continuously Transforming Organizations for Architects and Quantity Surveyors, Nairobi September 2009

COBRA RICS Construction and Building Research Conference 2008, Dublin, 2008

Association of Researchers in Construction Management Annual Conference 2008, Cardiff, 2008

BORAQS workshop on Professional Practice, Nairobi September 2008

CIB World Building Congress, Construction for Development, Cape Town, 2007

FIG INTERNATIONAL CONFERENCE, Nairobi, Kenya, 2001

PEER REVIEWER:

Ministry of Justice, National Cohesion and Constitutional Affairs

- Governance, Justice, Law and Order (GJLOS) Reform programme, Infrastructure Capacity Assessment Survey report by Infortrack research and consulting

Construction Management and Economics

- Leading international refereed journal that publishes original research concerning the management and economics of building and civil engineering, while also including the management of built facilities

Africa Habitat Review

- Journal of the School of the Built Environment, UON

CONSULTANCY:

- Extension to Civil Engineering block, University of Nairobi – completed
- Kenya Education Sector Support Program, design and documentation of standard public primary schools - completed
- Proposed human anatomy annex at Chiromo Campus, University of Nairobi – ongoing
- Proposed Karen Oakwood villas – ongoing
- Proposed Braeside villas – ongoing
- Proposed UNIHASS hospital – ongoing
- Proposed Extension to Dental School - Ongoing

PROFESSIONAL AFFILIATIONS:

Board Member, Kenya Institute for Public Policy Research and Analysis, 2013

Member, Institute of Directors (Kenya), 2013

Vice Chairperson, National Construction Authority, 2012 to date

- Appointed and gazetted by the Minister of Public Works as a NCA board member after nomination by IQSK
- Subsequently elected as the Vice chairperson of the board

- Duties involve regulating the practise of the construction industry in Kenya as per the requirements of NCA Act 2011

Vice Chairman, Board of Registration for Architects and Quantity Surveyors, 2009 to 2012

- Appointed and gazetted by the Minister of Public Works as a BORAQS board member
- Subsequently elected as the Vice chairman of the board
- Duties involve regulating the practise of the architecture and quantity surveying profession in Kenya as per the requirements of Act Cap 525

Chief Examiner and Board member, BORAQS Board of Education professional examination 2010 to date

- Duties include overseeing the administration of professional examination process including vetting applicants, administering pre-exam training, setting the examinations, moderating exams, marking, conducting oral examinations and publication of results

Certificate of Appreciation for outstanding and exemplary contribution to the growth and development of the construction sector in Kenya, 2012, AAK QS Chapter

Construction Industry Awards of Excellence 2010

- Award of excellence in contribution to Professional Development

Fellow and Founder Member, Institution of Construction Project Managers of Kenya, 2009 to date

Fellow Member, Institute of Quantity Surveyors of Kenya, 2010 to date

Council Member, Institute of Quantity Surveyors of Kenya, 2008 to date

- Duties include regulating the practice of the Quantity Surveying profession in Kenya, collaborating with other international professional associations and accreditation of training institutions
- Prepared the proposed Quantity Surveyors bill, 2010

Editor, ‘The Quantity Surveyor’, Official Journal of the Institute of Quantity Surveyors of Kenya, 2010 to date

- Duties involve all editorial responsibilities

IQSK Contractor Sensitization Program, 2011 to date

- Training SMME contractors on site management Nakuru, Nyeri, Embu

RELEVANT SKILLS:**COMPUTER SKILLS**

- Ms Office
- SPSS
- Microsoft project
- WinQS
- Q-pulse