<u>CV</u>

Mike Otieno, PhD

Senior Lecturer in Construction Materials

PhD, MSc(Eng), BSc(Civil Eng), PG Dip(HE), Candidate Engineer ECSA, AM-SAICE
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1 Personal details

Nationality: Kenyan Year of Birth: 1981

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2 Academic qualifications

Qualification	Year completed	Institution
PGDipEd(HE) – Postgraduate Diploma in Education	2017	University of the Witwatersrand,
(in Higher Education), with Distinction		Johannesburg

PhD, civil engineering	2014	University of Cape Town
MSc(Eng), civil engineering	2008	University of Cape Town
BSc(Civil Eng), First Class Honours	2006	University of Nairobi

2.1 Academic achievements and awards

2018, 2017, 2016: School Research Award

2012: Wason Bronze Medal for Materials Research

2011: Carnegie Doctoral Scholarship

2010: "Green Talents"

2010: University of Cape Town Research Associateship award

2008: Golden Key Award

2006: Best overall Civil Engineering student (First Class Honours) – University of Nairobi, Kenya.

3 Professional / technical associations (membership)

Do du	Membership		
Body	Туре	Number	
ECSA: Engineering Council of South Africa (www.ecsa.co.za)	Candidate Engineer	201550135	
EBK: Engineers Board of Kenya (www.ebk.or.ke)	Graduate Engineer	B6973	
SAICE: South African Institution of Civil Engineers (www.saice.org.za)	Associate member	201400767	
CSSA: Concrete Society of Southern Africa (www.concretesociety.co.za)	Member (Academic)	AC002	
RILEM: International Union of Laboratories and Experts in Construction Materials, Member		8346	
Systems and Structures (www.rilem.org)			
FIB: International Federation for Structural Concrete (www.fib-international.org)	Corresponding member	N/A	

4 Teaching (summary)

Course	Class	Inatitution
Undergraduate courses	size	Institution
CIVN2009: Materials and Structures II	150-250	
CIVN3001: Construction Materials I (course co-ordinator)	150-180	WITS*
CIVN4000: Construction Materials II (course co-ordinator)	70-115	

CIVN4013: Civil Engineering Theory IIIB, Construction Management students (course co-ordinator)	30-40	
CIV1006S: Building Science I (offered to Construction Economics students)	61	
CIV1004W: Engineering I	>100#	
CIV2011F: Mechanics of Materials	~60#	UCT**
CIV2031S: Structural Engineering I	~80#	001
CIV3035S: Structural Engineering III	~75#	
CIV4044S: Research Project	5	
Postgraduate courses		
CIVN7064: Advanced Concrete Technology (course co-ordinator)	30-50	WITS
CIV5002Z: Structural concrete properties and practice	16	
CIV5116Z: Durability and condition assessment of concrete structures 10		UCT
CIV5120Z: Repair and rehabilitation of concrete structures	21	

^{*:} University of the Witwatersrand, Johannesburg, **: University of Cape Town, #: Approximate numbers

5 Research and supervision

5.1.1 Research output (summary)

	Number			
Category of publication	In preparation	Submitted (under review)	Accepted	Published (print & online)
Peer reviewed journal papers	1	ı	-	21
Peer reviewed international conference/workshop/symposia	_	ı	-	22
Chapters in books	_	_	2	5
Keynote presentations	_	-	-	2
Invited conference / seminar/workshop presentations	_	-	_	3
Discussion papers / abstract-only submissions	_	-	_	4
Non-peer reviewed journals and magazines	_	-	_	2
Research monographs	_	_	_	1

Research output statistics				
Ctatiatia	Google Scholar	<u>Scopus</u>		
Statistic	(as on 15 th Aug 2020)	(as on 15 th Aug 2020)		
h-index	11	9		
i10-index	12	_		
Citations	778	483		

5.2 Postgraduate supervision (summary)

Lovel of study	Number			
Level of study	Ongoing	Submitted	Graduated	
PhD	4	1	1	
MSc(Eng) - 50/50	3	5	11	
MSc(Eng) – Full Research	1	_	_	
MEng	_	_	3	

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6 Academic citizenship

6.1 Professional / Technical associations (activities)

Duration	Organization	Role	
2018 to present	RILEM	Deputy Chairperson and member: TC AMC: Use of agro-based materials as	
		cementitious additions in concrete and cement-based materials	
2018 to present	RILEM	Member of Technical Committee AMC: Use of agro-based materials as	
		cementitious additions in concrete and cement-based materials	
2016 to present	RILEM	Member of Technical Committee 262: Characteristics of the steel/concrete	
		interface and their effect on initiation of chloride-induced reinforcement corrosion	
2016 to present	SAICE	Member, Joint Structural Division	
2014 to present	CoMSIRU	Research advisory committee member	
2015 to 2017	CSSA	Treasurer, Inland branch committee	
2010 to 2016	RILEM	Member of Technical Committee 230: Performance-based specifications and	
		control of concrete durability	
2012 to 2015	fib	Member of FIB Commission 5: Structural service life aspects	

CSSA: Concrete society of Southern Africa

SAICE: South African Institute of Civil Engineers

RILEM: International Union of Laboratories and Experts in Construction Materials, Systems and Structures

CoMSIRU: Concrete Materials and Structural Integrity Research Unit, Department of civil engineering, University of Cape Town

fib: International Federation for Structural Concrete

6.2 Technical advisory capacity

I am a member of the following advisory committees in the named universities:

- Concrete Materials and Structural Integrity Research Unit (CoMSIRU), Department of civil engineering, University of Cape Town (UCT) – since 2014
- 2. Department of civil engineering and building, Vaal University of Technology (VUT) since 2015
- 3. I also actively served as a technical committee member in South African Bureau of Standards committees that worked towards introducing the concrete durability testing standards named below which are now in use:
 - 1. SANS3001-CO3-1: Concrete durability index testing Preparation of test specimens
 - 2. SANS3001-CO3-2: Concrete durability index testing Oxygen permeability test
 - 3. SANS3001-CO3-3: Concrete durability index testing Chloride conductivity test

6.3 Peer review work (NRF, journals and conferences)

- 1. South African National Research Foundation (NRF) Reviewer for Rating and Research proposals
- 2. I am an active peer reviewer in the following local and internal journals:
 - Cement and concrete research (international)
 - Construction and building materials (international)
 - Materials and Structures (international)
 - American Concrete Institute's Materials journal (international)
 - Cement and concrete composites (international)
 - SAICE Journal (local, South African)
 - Concrete Beton (local, South African)
- 3. I have also served as a member of scientific and/or organizing committees in a number of international conferences.

7 Work experience

2016 (Oct) - present	University of the Witwatersrand, Johannesburg		
	School of Civil and Environmental Engineering		
	Position: Senior Lecturer		
	Teaching and guiding undergraduate and postgraduate courses		
	 Strength / Mechanics of Materials (undergraduate) 		
	Theory of Structures (undergraduate)		
	Construction Materials (undergraduate)		
	Advanced Concrete Technology (postgraduate)		
	Supervision of postgraduate students (masters and doctoral)		
	♦ Representing the school in faculty committees		
	Faculty Research Committee		
2014 (Mar) - 2016	University of the Witwatersrand, Johannesburg		
(Sept)	School of Civil and Environmental Engineering		
	Position: Lecturer		
	Teaching undergraduate and postgraduate courses		
	 Strength / Mechanics of Materials (undergraduate) 		
	Theory of Structures (undergraduate)		
	Construction Materials (undergraduate)		
	Advanced Concrete Technology (postgraduate)		
	Supervision of postgraduate students (masters and doctoral)		
	♦ Representing the school in faculty committees		
	Teaching and Learning Committee		
	Faculty Research Committee		
2009 (Aug) - 2014	Concrete Materials and Structural Integrity Research Unit (University of Cape Town)		
	Position: PhD Candidate		
	Duties: ◆ Assisting in the teaching and assessment of both undergraduate and MSc		
	courses in the field of structures and concrete		
	Co-supervision of both undergraduate and postgraduate students		
	Laboratory testing of concrete and cement-based materials		
	◆ Advising on the acquisition of concrete-related laboratory equipment		
	Condition assessment of deteriorated reinforced concrete structures		
	◆ Forensic investigations		
2009 (Jan - June):-	GHD Pty Ltd (Consulting Engineers, Environmental Scientists & Planners, Project Managers) –		
	Perth, Western Australia, Australia		
	Position: Graduate Materials Engineer		
	Duties: Provide advice on:		
	Design and specification of materials appropriate for their intended service life,		
	environment and loads.		
	Engineering management to achieve the design life of structures/plant and their		
	construction materials.		
	 Engineering of remedial measures for deteriorated structures appropriate to their operating requirements and intended future service life. 		
2006 (Son	Ochieng Abuodha and Associates (Consulting Civil and Structural Engineers) - Nairobi,		
2006 (Sep Dec.):-	Kenya		
	Position: Assistant Graduate Engineer		
	Duties: ◆ Structural and Civil Engineering Design.		
	Structural and Civil engineering AutoCAD drawings and production		

Dr Mike B. Otieno – CV (Short)

		Site inspection		
		Preparation of proposals and Tender documents.		
2006 (April -	Goro Consultants (Civil, Structural, Geotechnical, Electrical, Mechanical and Project			
June):-	Management Consultants) – Nairobi, Kenya			
,	Position: Research Assistant			
	Duties: ◆ Carrying out tests on concrete using a new concrete superplasticizer in the Kenyan			
		construction industry.		
		Analysis, interpretation of the test results and report writing.		