

1. PERSONAL INFORMATION

Name: Dr. Julius Kibiti M’Ndegwa.
Address: P.O Box 4051-30100, Eldoret
E-mail Address: jkmndegwa@foad-eod.net
Profession: Registered Professional Engineering Technologist
Membership: (i) Registered Environmental Impact Assessment/Audit Lead Expert.
(ii) Fellow Member (IET of Kenya)
(iii) Member of Institute of Directors (Kenya).
(iv) Member of Moi University Alumni Association.

2. ACADEMIC ACHIEVEMENTS

Academic Level	Name of School /College/University	Year and Month of Admission & Completion		Awards
		From	To	
University	Moi University	May 2003	Oct.2009	Doctor of Philosophy (PhD).
University	Strathclyde University in Scotland (U.K.)	Oct.1986	July 1988	Master of Science (M.Sc.) in Highway Engineering
Post Secondary Education	Kenya Technical Teachers Training College	May 1984	Sept.1986	Instructor’s Certificate
-ditto-	-ditto-	Oct. 1985	Nov. 1985	Intermediate Level (Instructor Training Programme)
-ditto-	-ditto-	Feb. 1985	May 1985	Basic Level (Instructor Training Programme)
-ditto-	Kenya Polytechnic	Jan.1979	Nov.1982	Higher Diploma in Construction
-ditto-	-ditto-	May 1971	Dec.1973	Ordinary Diploma in Civil Engineering
Secondary Education	Meru School	Feb. 1967	Dec. 1970	East African Certificate of Education (EACE)
-ditto-	-ditto-	-ditto-	Dec. 1968	Kenya Junior Secondary Education (KJSE)
Primary Education	Kibirichia Full Primary School	Jan. 1958	Dec. 1966	Kenya Preliminary Examination (KPE)

3. WORKSHOPS & SEMINARS ATTENDED

Name of Workshop /	Place Held	Year and Month of Admission & Completion	Awards
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Seminar		From	To	
KeNHA Board Development program	Conducted by Strathmore Business School at Great Rift Valley Lodge	18 th Jan. 2017	20 th Jan. 2017	Certificate of Completion
Leadership and Governance	Conducted by Institute of Directors (Kenya) at Pride Inn Hotel, Mombasa	29 th Aug. 2016	2 nd Sept. 2016	Certificate of Attendance
Mwongozo Induction Programme for Boards of State Corporations	Mombasa Continental Resort, Mombasa	5 th Nov. 2015	7 th Nov. 2015	Certificate of Participation
Board Audit Committee workshop	Conducted by Institute of Auditors (Kenya) at Ramses Hotel, Cairo, Egypt	22 nd April, 2015	24 th April, 2015	Certificate of Attendance
Being a Director – Directors Induction Program	Conducted by Institute of Directors (Kenya) at SouthernSun Mayfair, Nairobi	26 th Feb. 2015	27 th Feb. 2015	Certificate of Attendance
Senior Road Executives Programme	University of Birmingham, United Kingdom	17 th June 2013	22 nd June 2013	Certificate of Attendance
Retirement Planning	Conducted by Retirement Benefits Authority at Moi University	16 th May 2013	Same day	Certificate of Attendance
Senior Road Executives Programme	University of Birmingham, United Kingdom	25 th June 2012	30 th June 2012	Certificate of Attendance
Organizational Management	Conducted by Moi University at Moi University Senate Chambers	26 th April, 2012	27 th April 2012	Certificate of Participation
Workshop on Introduction to Structural Eurocodes in Kenya	Organized by Moi University; Kenya Bureau of Standards (KEBS); Vrije Universiteit, Brussels (VUB), Belgium; and Delft University of Technology, The Netherlands, held at Sirikwa Hotel, Eldoret	13 th Feb. 2012	14 th Feb. 2012	Certificate of Participation
Retirement Planning	Conducted by Retirement Benefits Authority (RBA) at Moi University	18 th Nov. 2011	Same day	Certificate of Attendance
Finance for Non-Finance Managers and Directors	Conducted by Topmark Management Consultants held at Mombasa Continental Resort	28 th Sept. 2011	30 th Sept. 2011	Certificate of Attendance

Seminar				
Retirement Preparation	Conducted by Retirement Benefits Authority (RBA) at Moi University	13 th Oct. 2010	14 th Oct. 2010	Certificate of Attendance
Course on Diverse Use of Concrete IV	Organized by Moi University, Kenya, Delft University of Technology, The Netherlands and Bamburi Cement, Kenya and held at Lenana Mount Hotel, Nairobi	23 rd Feb. 2009	26 th Feb.2009	Certificate of Participation
Seminar on Preparation for the Professional Interview	Organized by The Institution of Engineers of Kenya and held at Wagon Hotel, Eldoret	18 th Nov. 2005	Same day	Certificate of completion
Chair Donation Project to the Church	Organized by Lelmolok Anglican Church of Kenya (ACK), Cheptiret Parish	Oct. 2004	Dec. 2004	Certificate of Participation
Environmental Impact Assessment Course	Organized by School of Environmental Studies, Moi University	21 st June, 2004	9 th July, 2004	Certificate of Completion
Workshop on Diverse Use of Concrete	Organized by Department of Civil Structural Engineering, Moi University and Faculty of Civil Engineering and Geosciences, Delft University of Technology, The Netherlands and held at Sirikwa Hotel, Eldoret	23 rd Feb. 2004	25 th Feb. 2004	Certificate of Attendance
Course on Industrial Pollution Control	Organized by Department of Civil Structural Engineering, Moi University and Faculty of Civil Engineering and Geosciences, Delft University of Technology, The Netherlands and held at Sirikwa Hotel, Eldoret	14 th Feb.2000	18 th Feb. 2000	Certificate of Participation
Short Course on Urban Mobility and Non-Motorised Transport	Organized by Kenya National Team of the Urban Mobility and Non-Motorised Transport Pilot Project and held at Nairobi	1 st Nov. 1999	4 th Nov. 1999	Certificate
Course of Instruction in	Organized by The Industrial Society of	10 th July, 1988	29 th July, 1988	Certificate of Completion

Management for Engineers and Scientists	Britain and held at Bath city, England			
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4. WORK EXPERIENCE

16th June 2011 to 24th June, 2017 **Director**, Kenya National Highways Authority.

1st July to 31st October, 2016 **Dean**, School of Engineering and Architecture, Meru University of Science and Technology.

31st July 2012 to 30th Sept. 2015 **Head of Department**, Civil and Structural Engineering, Moi University.

29th October 2014 Appointed by Jomo Kenyatta University of Agriculture & Technology as **Supervisor for PhD candidate**.
Thesis title: *“Modification of penetration bitumen using rubber powder from waste pneumatic tyres.”*

25th February 2014 Appointed **External Examiner** for M.Sc. thesis by Jomo Kenyatta University of Agriculture & Technology.
Thesis title: *“Development of a model for effective management of building construction”*.

12th December 2013 Nominated **External Assessor** for Master of Technology by Tshwane University of Technology (South Africa).
Thesis title: *“Recycling of construction waste for roads rehabilitation.”*

16th October 2013 Appointed **External Examiner** for M.Sc. thesis by Jomo Kenyatta University of Agriculture and Technology
Thesis title: *“Optimizing model for earth moving operations in Kenya”*

1st August 2011 to
30th July 2012.

Ag. Head of Department, Civil and
Structural Engineering, Moi University.

July 2011 to date

Senior Lecturer, Dept. of Civil &
Structural Engineering, Moi University.

Aug. 1995 to
June 2011

Lecturer, Dept. of Civil & Structural Engineering, Moi
University.

On diverse years was Coordinator, Workshop Practice;
Coordinator, Laboratory activities and Field trips;

Coordinator, Documentation centre; Coordinator, Time-
table and teaching matters; Coordinator, Research
Projects for final year undergraduate students; and

Coordinator, Privately Sponsored Students Programme.

Jan. 1991 - July 1995

Lecturer in Building and Civil Engineering
(Kenya Polytechnic).

Aug. 1988 - Dec. 1990

Deputy Branch Head (Roads Branch), Dept of Staff
Training (DST), Ministry of Transport and
Communications.

Deputy Branch Head, dealt with coordination of training
matters in the Branch among other administrative
matters.

Oct. 1986 - July 1988

Post Graduate studies at University of
Strathclyde (Scotland) UK.

May 1983 - May 1984

Head of Section (Technician Training), Dept. of
Staff Training, Ministry of Transport &
Communications. Dealt with training of Technicians.

Dec. 1982 - April 1983

Provincial Materials Officer in-charge of Central and

Eastern Provinces.

Dealt with administration; Construction control in the field and supervision of materials testing in the Laboratories.

Sept .1975- Sept 1977

Officer-in-Charge of Field Investigations for suitable natural road construction Materials in Kenya East and stationed at Kilifi.

Aug.1974-Aug.1975

Field Team Leader, Pavement design Section (Materials &Testing Dept.).

Jan 1974-July 1974

Managed Field Quality Control Team during construction of Machakos –Wamunyu Road.

5. RESEARCH AREAS

- (a) Stabilization of quarry waste with cane molasses.
- (b) Use of cane Molasses in Stabilizing River Sand for use as road base material.
- (c) Partial replacement of lime with cane molasses in stabilization of heavy clay soil.
- (d) Investigations on performance of bagasse ash stabilized clay soil against water erosion.
- (e) Highway pavement design.

6. PUBLICATIONS

M’Ndegwa, J.K. (2016) *Diversifying the Use of Molasses towards Improving the Infrastructure and Econmy of Kenya*. Journal of Civil and Environmental Engineering, Vol.8, No.11, (2016) pp37- 42, (ISSN 2224-5790).

Robert M. Kei, Julius K. M’Ndegwa, Taratisio Ndwiga, Faith Masika (2016) *Challenges of Cervical Cancer Screening Among Women of Reproductive Age in Kisii Town, Kisii County, Kenya*. Science Journal of Public Health, Vol. 4, No. 4, 2016, pp289-296 (ISSN:2328-7942).

M’Ndegwa, J.K. (2011) *Characterization of compacted expansive clays- A field and laboratory approach*, ISBN 978-3-8473-0505-7,116 pages, Published by Lambert Academic Publishing.

M’Ndegwa, J.K. (2011) *Hydrological Aspects in the Maintenance and Rehabilitation of Rural Road Networks in Kenya: The case of Cheptiret - Kesses Road, Uasin-Gishu District*: International Journal of Current Research, Vol.3, Issue, 12, pp.201-205, December 2011 (ISSN: 0975-833X).

M’Ndegwa, J.K. (2011) *The effect of cane molasses on strength of expansive clay soil*: Journal of emerging trends in engineering and applied sciences(JETEAS) 2(6):1034-1041 Scholarlink Research Institute Journals, 2011(ISSN: 2141-7016).

M’Ndegwa, J.K. and Shitote, S.M. (2011) *Influence of cane molasses on plasticity of expansive clay soil*: International Journal of Current Research.

7. CONFERENCE PAPERS

M’Ndegwa, J.K.; Farah, H.O.; and Mwaniki, J.K. (2003) *The Use of molasses as soil stabilizing material*: Proceedings of the International Civil Engineering Conference on Sustainable Development in the 21st Century – Nairobi, Kenya 12th -16th August 2003 pp 123-128. Published for CE-2003 by Danste Agencies, P.O.Box9654, Nairobi. ISBN: 9966-923-51-9.

M’Ndegwa, J.K.; Farah, H.O. (2003) *Environmental Impact Assessment of Road Projects in Kenya*: Proceedings of the International Civil Engineering Conference on Sustainable Development in the 21st Century – Nairobi, Kenya 12th -16th August 2003 Pp 411-416. Published for CE-2003 by Danste Agencies, P.O. Box 9654, Nairobi. ISBN: 9966-923-51-9.