

## Catherine Rwamba Githuku

Address: P.O. Box 735 - 00517, Uhuru Gardens, Nairobi

Date of Birth: 19<sup>th</sup> October 1960

Present Position: Lecturer and  
Chair Person  
Department of Water & Environmental Engineering  
School of Engineering & Technology

Employer: Kenyatta University

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Experience

September 2010 to Date	Kenyatta University
Lecturer	School of Engineering
Jan 2012 to Date	Department of Water & Env. Eng.
Chairperson - Water and Environmental Engineering Department	

- Lecturing in Engineering Mathematics, Environmental Pollution & Management, Structural Mechanics, Structural Analysis & Design, Material Science, Hydraulics, Soil Mechanics and Sanitary Microbiology.
- Developing teaching materials;
- Supervising and guiding 4<sup>th</sup> and 5<sup>th</sup> year students on project work;
- Curricula Development & Review;
- Setting, Moderating, Administering and Marking Coursework & Examinations;
- Carrying out research in a relevant lecturing field.
- Currently involved in development of curriculum for Bachelor of Education – Technical and Vocational Education (Engineering

Options) and Bachelor of Civil Engineering for **Kenyatta University**

September 2010 to Date  
Part Time Lecturer

**JKUAT**

Departments of Civil  
Engineering, Construction  
Management,  
Biomechanical and  
Environmental  
Engineering and  
Architecture

- Lecturing in Structural Mechanics, Structural Analysis & Design, Material Science and Hydraulics, Microbiology and Soil Mechanics.

14<sup>th</sup> January 1987 to September 2010 Kenya Water Institute

Lecturer:

- Lecturing in Engineering Mathematics, Environmental Pollution & Health, Structural Mechanics, Analysis & Design, Soil Mechanics, Physics and Computer Applications;
- Developing teaching materials;
- Curricula Development & Review;
- Setting, Moderating, Administering and Marking Coursework & Examinations;
- Carrying out research in a relevant lecturing field.

**Principal Lecturer at Kenya Water Institute, having the following additional tasks:**

- Heading the Department of Water Management and Information Technology;
- Planning Courses within the department;
- Curricula Development & Review within the department;
- Implementing Training courses for the department;
- Coordinate field practical (industrial attachments) training;
- Evaluation of training programmes;

- Budgeting for course programmes and related activities;
- Sensitizing staff and students on Gender Issues and HIV/AIDS;
- Guiding and Counseling Staff and Students.

**1<sup>st</sup> March 1985 – 13<sup>th</sup> January 1987 Ministry of Water Resources**  
 Assistant Engineer - Planning and Design Section. Involved in design of Karai Water Supply in Kiambu and Karingani Water Project in Chuka.

### **Other Experiences**

- Recruitment of Trainees and Trainers at Kenya Water Institute;
- Setting and Moderating Examinations for Kenya National Examinations Council (Engineering Mathematics and Structural Design);
- Training Retirees under the Early Retirement Programme in the Civil Service;
- Curricular development for Diploma and Certificate courses at Kenya Water Institute – Diploma in Water Engineering, Diploma in Water Technology, Certificate in Water Engineering, Certificate in Water technology & Water Operators Curricula;
- Developing Marketing tools for the Institute;
- Training on Water Management and Tariff setting for Karura Water Project – Kiambu;
- Organizing for and Training on Billing and Revenue Collection for Project Archie – Ahero – August 2005;
- Preparation of a Business Plan for Karanje Community Water Project – Kiambu for Plan Kenya Central/ Nyanza Programme Area – 2004;
- Training on Water Tariff setting and Cost regulation for Consumer Information network – 2003;
- Training on Non Revenue Water and Customer Care Orientation
- Auditing for ISO Management Systems

### **Education**

**2005 – 2007:**

Master of Science in Environmental

**Jomo Kenyatta University of  
 Agriculture & Technology**

## Engineering and Management

MSc. Research Project/Thesis entitled “Assessment of the Environmental Risks of Untreated Wastewater in Urban and Peri Urban Agriculture: A Case Study of Nairobi in Kenya”

**1981–1984:** **McGill University (Montreal – Canada)**  
Bachelor of Engineering (Civil) –  
1985

### Courses Attended

GIZ-DAAD International Alumni Summer School “Water and Sanitation for the Urban Poor – Natural Hazards, Climate Change, Governance and Human Rights  
**04 December to 17 December 2011**  
**Nairobi/Kenya**

Urban Management Tools for Climate Change  
**11<sup>th</sup> May to 3<sup>rd</sup> June, 2010**  
**Institute for Housing & Urban Development Studies (IHS) of Erasmus University, Rotterdam in The Netherlands**

Wastewater Treatment Technologies (Membrane Technologies):  
**3<sup>rd</sup> to 13<sup>th</sup> August, 2009**  
**Jomo Kenyatta University of Agriculture & Technology**

Computer Training in Microsoft Project:  
**November 1999**  
**Amarco Kenya Limited**

Management of Technical and Vocational Education and Training Institutions:  
**5<sup>th</sup> January – 29<sup>th</sup> April 1998**  
**DSE Mannheim - Germany**

Leak Management: 29 <sup>th</sup> April – 2 <sup>nd</sup> May 1997	Africa Water Network
Microsoft Windows, Word, Excel, Access and Powerpoint: 8 <sup>th</sup> – 21 <sup>st</sup> April 1997	Amarco Kenya Limited
Total Quality Management: 1 <sup>st</sup> – 4 <sup>th</sup> April 1997	Modern Management Institute
Project Monitoring and Evaluation: 18 <sup>th</sup> – 22 <sup>nd</sup> November 1996	Kenya Institute of Administration
Community Development: 5 <sup>th</sup> – 9 <sup>th</sup> August 1996	Jomo Kenyatta University College of Agriculture and Technology
Inter – Personal Management Development Skills for Senior Women Managers in the Public Sector: 26 <sup>th</sup> – 30 <sup>th</sup> April 1993	Directorate of Personnel Management/ Kenya Institute of Administration
Water, Health and Environment November 1991	Kenya Water Institute
Water Supply, Sanitation, Urban Infrastructure and Rural Development Workshop: 19 <sup>th</sup> – 23 <sup>rd</sup> August 1991	UNEP
Municipal Waste Management in Developing Countries: May 1991	Kenya Water Institute

Collection, Presentation and  
Interpretation of Groundwater Data:  
19<sup>th</sup> October – 6<sup>th</sup> November 1987

TNO-DGV Institute of  
Applied Geoscience

International Course on Water  
Resources  
Engineering:  
15<sup>th</sup> June – 11<sup>th</sup> September 1987

Yugoslavia

Referees:

Leonard J. Ogutu  
Deputy Director Training  
Kenya Water Institute  
P.O. Box 60013 - 00200  
Nairobi, Kenya

Dr. Mwangi Gathenya  
Department of Biomechanical & Environmental Engineering, Jomo  
Kenyatta University of Agriculture & Technology (JKUAT)  
P.O. Box 62000 – 00200  
Nairobi, Kenya

Isabella Njeri Wachira (PhD)  
P.O. Box 67174 - 00200  
Nairobi, Kenya

Department of Real estate and Construction Management, University  
of Nairobi