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## **SA and Nigeria's first woman professor in construction management**

When Abimbola Windapo graduated from the University of Ife (now Obafemi Awolowo University) in 1987, she did so as the first woman to study building. And now, with an ad hominem promotion to full professorship from the University of Cape Town (UCT), she is also the first woman professor in the field of construction management in South Africa and her native Nigeria.

For Professor Windapo, this confirms that she is truly "a role model for women, especially those from disadvantaged backgrounds, to give them hope that nothing is impossible".

Transforming her field – both in and outside of the university – has been a constant in Windapo's decades-long career. In what remains a male-dominated industry and faculty, Windapo has made numerous important contributions, including research into sustainable contractor development and serving as the chairperson of the Faculty of Engineering & the Built Environment's (EBE) Transformation Committee from 2015 to 2017, a period of student protests across UCT's campuses.

Further contributions and recognition include graduating five PhD researchers, and receiving the 2020 National Science and Technology Forum-South32 Award in the Engineering Research Capacity Development category.

For the ceiling-smashing Windapo, the ad hominem promotion, which is effective from January 2021, is particularly meaningful because it is recognition of her research, teaching, social responsiveness and administrative abilities from the "top-ranked university in Africa".

"Also, it is going to open more doors of opportunities because people now start taking you seriously and are interested in you," she said.

Entering and succeeding in a male-dominated industry wasn't an entirely new experience for Windapo. In 1987 she broke barriers by graduating from the University of Ife as the first woman to study building. She then began working for multinational construction company Bouygues Nigeria Limited as a studies and planning engineer.

While working on numerous high-profile projects, Windapo completed a Master's in Construction Management from the University of Lagos and later registered as a builder with the Council of Registered Builders of Nigeria.

In 1996 she left Bouygues and joined Lagos State Polytechnic and later the University of Lagos in 1998. While there, she obtained her PhD in Building and graduated in 2005. She continued providing professional building services at the University of Lagos and was conferred with a fellowship of the Nigerian Institute of Building in 2007.

Two years later, Windapo joined UCT while continuing to research and render professional services in the construction industry after registering with the South African Council for Project and Construction Management Professions as a professional construction project manager and mentor.

Asked what attracted her to engineering, Windapo said it was “pervasive problems such as unaffordable housing, overcrowding, inadequate infrastructure and service delivery, unhygienic environment, destitution and high rental costs”. She said these factors are responsible for the establishment of informal settlements, and health issues, which lead to a reduction in productivity and aggravation of crime.

With the scarcity in infrastructure in Africa, Windapo decided it was necessary to change this narrative, and early on in her career, she recognised the importance of housing and infrastructure and of finding new ways of adapting approaches and building materials so that “people could have a fundamental right to housing as required by the Constitution”.

“All human beings should have access to comfortable accommodation in a conducive environment,” she said.

Windapo has held true to her initial reasons for entering the field. When she started working in South Africa, she responded to the high failure rates of many construction companies, particularly in the small- to medium-enterprise sector, and the poor health and safety records in the industry. “There were gaps in knowledge and societal needs that called for the research,” she explained.

“Before my research in this area, there was no previous recipe for sustainable contractor development, while the practices used by construction companies in ensuring health and safety were not established in the literature.”

Thus, the goal of Windapo’s research was to “show ways of transforming the construction industry while providing jobs, alleviating poverty, developing scarce skills and reducing the impact of construction activities on the environment through sustainable practices”.



Prof Abimbola Windapo

Photo: UCT

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