

YOU ARE INVITED TO JOIN US

QUANTITY
SURVEYING

RESEARCH
CONFERENCE
2023

22-23
OCTOBER
2023

BIRCHWOOD
HOTEL and
OR TAMBO
CONFERENCE
CENTRE
BOKSBURG
JOHANNESBURG
SOUTH AFRICA

DIGITALISATION OF THE QUANTITY SURVEYING PRACTICE: TOWARDS A SUSTAINABLE PROFESSION



ORGANISED BY: THE SOUTH AFRICAN COUNCIL
FOR THE QUANTITY SURVEYING PROFESSION

HOSTED BY: DEPARTMENT OF CONSTRUCTION
MANAGEMENT AND QUANTITY SURVEYING
UNIVERSITY OF JOHANNESBURG

YOU WILL EARN **6 CPD HOURS** IN CATEGORY 1

BACKGROUND

The quantity surveying (QS) profession is a critical profession in the construction industry with a long history. However, the profession has witnessed various transformations and has evolved over the ages. The profession has evolved with the industrial revolutions birthing new aspects and skills to match the dynamic industry and client requirements. The current wave of the industrial revolution, driven by digital, physical and biological technologies as well as innovative building solutions, provides possible directions towards attaining a sustainable construction industry. Consequently, the QS profession is required to adapt and achieve sustainability. The adoption of advancements such as systems integration and the internet of things, virtual/augmented/mixed realities, artificial intelligence, building information modelling, cloud computing, cyber security, big data and analytics, autonomous robots, simulations etc., impacts the traditional roles of the profession and requires the birthing of new roles and aspects.

It is thus critical at this point in time when other professions are striving to incorporate emerging technologies into their roles for the QS profession to do likewise. Although considering the unique role and the fact the profession interfaces with all professionals in the industry, it is non-negotiable for the profession to be at par with the current industrial revolution by going digital, ensuring its sustainability. This is quite important, especially in developing countries where technology adoption has been slow and very low compared to developed countries. In addition, the QS profession is one of the slowest and least responsive to technology adoption.

CONFERENCE FEES

DELEGATE
R3 500

STUDENT DELEGATE
R1 500

ACCOMPANYING PERSON
(non-presenter)
R1 500

INTERNATIONAL DELEGATE
\$300

PLEASE NOTE - INCLUSIONS/EXCLUSIONS:

Accommodation is not included in the fee. Registration covers two papers only, attendance to all program sessions, conference material, light lunches, tea and coffee breaks, welcome reception, opening ceremony, conference dinner, conference bag etc.

Physical presentations are limited to two papers per author.

CONFERENCE AIMS & OBJECTIVES

The conference aims to provide an opportunity to review and create knowledge on achieving a sustainable QS profession through innovation and digitalisation. Consequently, delivering the resulting processes and practices needed to achieve a sustainable QS profession that is more effective and efficient by emphasising digitalisation.

The papers submitted for the conference might explore topics including but not limited to the following:

- Competitiveness
- Sustainability
- Dynamic capability
- Pedagogical development
- Business modelling
- Value management
- Professional ethics
- Skills development
- Data management
- Commercial management
- Smart contract
- Contract management
- Risk evaluation
- Augmented/Virtual/Mixed realities in sustainable construction
- Big data and the construction industry
- Carbon emissions and energy usage in the built environment
- Changing roles and responsibilities of quantity surveyors in sustainable construction projects
- Circular economy in construction
- Construction digitalisation
- Corporate social responsibility
- Digitalisation and construction human resource management
- Efficient and sustainable use of construction materials
- Health, safety and well-being of construction workers and end-users
- Housing affordability and sustainable development problems
- Indoor environmental quality and management
- Information modelling and Digital Twin Technology (BIM, BrIM, CIM, GIS)
- Regulatory Framework for and Government Initiatives
- Sustainable building design and refurbishment
- Sustainable supply chain management and procurement strategies in construction
- Sustainable waste management
- Sustainable construction practices

OUR KEYNOTE SPEAKERS



DR WANDA CHUNNETT

DIRECTOR
TURNER & TOWNSEND (PTY) LTD



MR AYANDA NGCEBETSHA

CTO
MICROSOFT, SOUTH AFRICA



DR NTEBO NGOZWANE

DIRECTOR
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