

Stellenbosch Engineering Industry Showcase 2026

PROGRAMME

WEDNESDAY, 27 MAY
Century City Conference
Centre, Cape Town

Stellenbosch Engineering Industry Showcase

Wednesday, 27 May 2026



Stellenbosch
UNIVERSITY
IYUNIVESITHI
UNIVERSITEIT

Engineering
EyobuNjineli
Ingenieurswese

08:30 – 09:30

Arrival, Registration, Tea/Coffee

09:30

Welcome and Faculty Overview

Prof Wikus van Niekerk, Dean: Faculty of Engineering

10:00

Keynote Address

Ms Wrenelle Stander, CEO: Wesgro

10:20

Keynote Address

Mr Johann du Toit, CEO: Simera Sense

10:40

Break

Session 1

Session 2

Advanced Manufacturing and Industrialisation

Disaster Risk Management and Climate Resilience

10:45

Shaping the Future of Industry: The Rise of Reconfigurable Manufacturing Systems

Dr Boitumelo Ramatsetse

Building Climate Resilient W²EF Infrastructure through Evidence Based Decision Support Tools

Prof Cristina Trois

11:05

Print, Place, Reuse: 3D Printed Concrete in Practice

Dr Kim Timm

Demystifying Fire Engineering: How to Prevent the Loss of your Firm, Factory or Farm

Prof Richard Walls

11:25

Tea/Coffee Break

Session 3

Artificial Intelligence for Improved Industrial Processes

Session 4

Aerospace and Robotics

11:40	Digital Twin for Smart Water and Wastewater Treatment Plants Prof Lijun Zhang	Closing the Gap: Autonomous Control for Satellite Rendezvous and Docking Prof Willem Jordaan
12:00	From Models to Systems: Industrialising AI for Real-World Applications Dr Clint Steed	Autonomous Robots for Mining and Forestry: Navigating Rough Terrain Prof Callen Fisher
12:20	Engineering Human-Autonomy Integration in Industrial Systems Dr Nicole Taylor	Rethinking what Quadcopters Can Do: New Use Cases and Capabilities Dr Willie Smit
12:40	Data Analytics for Process Engineers Prof Tobi Louw	Aerospace Propulsion Research at Mechanical & Mechatronic Engineering Prof Ryno Laubscher

13:00 **Lunch**

Session 5

Biomedical Engineering and Health Technologies

Session 6

Water Resource Management and Infrastructure

14:00	Environmental and Biological Diagnostics: The Engineering Perspective Dr Taskeen Ebrahim	3D Hydrodynamic CFD Modelling of Flow and Scour Patterns at Hydraulic Structures Dr Adele Bosman
14:20	Cardiovascular Disease Modelling: Towards Improved Diagnostic Correlations Dr Lindi Kock	Water Without Waste: Reimagining Treatment, Reuse, and Resource Recovery Dr Caitlin Courtney

Session 7

Renewable Energy

Session 8

Transport and Logistics

14:40

Optimising Renewable Energy: Intelligent Siting and Predictive Power
Drs Armand du Plessis and Chantelle van Staden

Logistics and Supply Chain Systems: A Western Cape perspective on Research and Education
Profs Leila Goedhals-Gerber and Joubert van Eeden

15:00

Industrial Decarbonisation: Beyond Renewable Electricity
Prof Mike Owen

Future-Proof Mobility: Data-driven, Disruptive, and Designed for People (not cars)
Dr Megan Bruwer

15:20

Tea/Coffee Break

Session 9

Sustainable Development for the Environment

Session 10

Agricultural Technology (Agritech)

15:35

Developing Sustainably: Materials, Chemicals, and Processes for a Circular Future
Prof Robbie Pott

Microclimate Information Technologies
Prof André van der Merwe and Dr Diane Mostert

15:55

Low-Carbon Material in the Built Environment
Dr Elaine Goosen

Computational Modelling in Postharvest Technologies
Prof Corné Coetzee and Dr Tarl Berry

16:30

Closing

Cocktail and Alumni Function

17:00

Shaping Tomorrow: Engineering Management's Role in Cultivating Future-Ready Professionals
Prof Taryn Barnard

Decisions Under Uncertainty: Engineering Management's Next Strategic Frontier
Prof Wynand van Dyk