



The South African Institute of Refrigeration and Air Conditioning

www.sairac.co.za

Dear SAIRAC members & Industry associates,

You are invited to our Cape Town Centre Technical Talk on Tuesday, 13 October 2026.

This Technical Talk will carry a **0.1 CPD point accreditation**.

TOPIC: IoT-Driven Indoor Air Quality and Purification presented by Kritika Laloo



Kritika Laloo is a qualified Mechanical Engineer with Pr. Tech. Eng and over 10 years of HVAC experience in contracting, consulting and technical sales. She focuses on energy efficiency and sustainability within the built environment and has obtained Net-Zero AP from GBCSA. She holds the position of HOD-Solutions at LEEP Solutions, focusing on IoT monitoring and Indoor Air Quality.

SYNOPSIS

This presentation explores indoor air quality within the built environment, focusing on key parameters such as temperature, humidity, carbon dioxide (CO₂), particulate matter (PM) and total volatile organic compounds (TVOCs). It also examines their effects on occupant health, comfort, wellbeing and productivity, together with practical HVAC air-treatment solutions such as conventional and activated-carbon filtration, electrostatic filtration, UVGI, photocatalytic oxidation and odour control.

The presentation further demonstrates how IoT sensors, wireless networks, real-time dashboards and automated alerts can support continuous air-quality monitoring and proactive HVAC management. A practical case study illustrates how the resulting data can assist with operational decision-making, HVAC optimisation, ESG reporting and green-building certification objectives.

Venue: Parow Golf Club – Frans Conradie Road – Parow

Date & Time: 13th October 2026 @ 18h00 for 18h30

Snacks will be provided, and Cash Bar facility will be available

Please send **RSVP** to:

capetownsecretary@sairac.co.za

062 085 4054

on/by **12th October 2026** before **12h00**

Rozelle Steenkamp
SAIRAC CAPE TOWN CENTRE
Cell: 062 085 4054
Email: capetownsecretary@sairac.co.za