

FRIGAIR 2022 SAIRAC free-to-attend workshop programme

The South African Institute for Refrigeration and Air Conditioning (SAIRAC) will host several free-to-attend workshops during FRIGAIR 2022. These workshops will fall into slots of one hour each with 40 - 45 minute talks, and an allocation of approximately 10 minutes per session for questions and answers. Participants will be welcome to engage with the presenters after their session for more information.

The programme over the show days is as follows:

Wednesday 01 June 2022

Slot	Time	Company/Organisation	Speaker	Presentation Topic
1	11H00 - 12H00	South African Refrigeration and Air Conditioning Contractors Association	Barney Richardson	The subject of this talk will focus on refrigerants safe handling, registration of authorised refrigeration practitioners, categories of registration, the registration and renewal processes, time frames and limits. Requirements, roles and responsibilities will also be covered.
2	12H00 - 13H00	South African Qualification & Certification Committee – Gas	Eddie Cooke – SAQCC Gas director & communication portfolio, and, Virginia Mtshali – SAQCC Gas office administrator	This talk aims to clarify online Certificates of Conformance (CoC) for refrigeration/air conditioning systems in line with the pressure vessel regulations. The focus will be on processes and procedures in order to register for and issue Certificates of Conformance.
3	13H00 - 14H00	Department of Forestry, Fisheries and the Environment	Margaret Molefe	This talk will be about the South African signing of the Kigali amendment, phase down/out of HCFC's and HFC's, and South Africa's HCFC Phase-Out Management Plan (HPMP).
4	14H00 - 15H00	African Cooling Systems	Archie Steyn	"Installation of insulated structures": This presentation will cover aspects of design, common types of insulation used for cold structures and clean rooms, planning and installation, quality control, on-site inspections and approval of works. The presentation will cover practical examples and photos of installations, planning, site preparation, inspection of panels before installation, recessed floors and concrete works, examples with photos of incorrect installations and the effect this has on insulation and floors over a period of months or years.

Thursday 02 June 2022

Slot	Time	Company/Organisation	Speaker	Presentation Topic
1	10H00 - 11H00	Aersa / Aermec	Luigi Rossetini (international speaker)	This workshop will present a talk that looks at the energy efficiency in hydronic cooling distribution systems. In general, the topic dealt with in this seminar is 'energy efficiency in central air-conditioning (cooling) hydronic systems'. from the centralised production site to local sub-stations and terminal units. Focus areas include: Architecture of chilled water distribution systems and the design and installation of heat pumps and polyvalent heat pumps.
2	11H00 - 12H00	Energy Partners	Dawie Kriel	The subject of this presentation is servitisation in refrigeration and how it supports the use of natural refrigerants and shifts the focus sharply to life-cycle cost. Servitisation is a well-known tool in many industries such as photocopiers, Uber and aircraft engines; but in refrigeration it is a relatively new concept and is now known more widely as Cooling as a Service (CaaS). Energy Partners started offering their customers CaaS as an option since 2017. Recently, the Basil Agency for Sustainable Energy (BASE), has started a world-wide drive to promote CaaS as a tool to promote the use of natural refrigerants and increased energy efficiency. Kriel will explain how CaaS works in practice, including the advantages to end-users and suppliers. In conclusion, with the use of data from refrigeration systems Energy Partners owns and operates, it will be demonstrated how the lifecycle cost can be optimised and guaranteed when using natural refrigerants in a CaaS project.
3	12H00 - 13H00	Air Conditioning and Refrigeration Academy	Grant Laidlaw	This workshop will be about the status quo of air conditioning and refrigeration training in South Africa. It will also cover the latest qualification outline and address regular questions such as: <ul style="list-style-type: none"> • Are natural refrigerants, including flammable hydrocarbons, in the training curriculum? • Is R32 included? • Is flammable refrigerant training available? • How to set up apprenticeships and a workplace register with a SETA. • Are you obliged to use any particular SETA? • About learnerships. • Qualifying your staff, trade testing. • Who qualifies for trade testing, what criteria does the applicant need to meet, ie time, scope, qualifications? • What process does an applicant/company need to follow? • Will there be an ammonia-specific qualification with a trade test? • What does the future hold for air conditioning and refrigeration training and trade testing? Special training projects will also be included.
4	13H00 - 14H00	A-Gas South Africa	Werner Terblanche	This workshop will address driving a circular economy and the latest refrigerant trends. The topic highlights the use and disposal lifecycle for refrigerants and why we need to change our outlook on how we deal with refrigerants. With an industry faced with environmental pressures, and one that operates under a quota mechanism, the speaker will explain why A-Gas is focusing on refrigerant reclamation to help reduce carbon emissions to protect the planet. The presenter will also be showcasing current refrigerant trends to lower GWP alternatives.

Friday 03 June 2022

Slot	Time	Company/Organisation	Speaker	Presentation Topic
1	10H00 - 11H00	Baltimore Aircoil Company	Robert Downey (international speaker)	This presentation, 'Prevention by Design' will educate participants about the basic elements of SANS 893: Legionella, as it relates to evaporative cooling equipment. Using the specific written guidance of the SANS 893 documents, the speaker will demonstrate how the proper design, operation and maintenance of evaporative cooling equipment helps to reduce hygiene risks, and facilitate better compliance with the guidance and recommendations of SANS 893. The sub sections of presentation include the following topics: <ul style="list-style-type: none"> • Cooling tower design alternatives • Proper location and layout • Efficient eliminators and fill pack • Cooling tower accessories • Key practicalities of accessibility for cleaning and maintenance. Participants will walk away with useful, actionable ideas that help them to increase compliance with SANS 893 guidelines, which will reduce hygiene risks, insure thermal cooling efficiency and low-ered maintenance costs, and provide a safer environment their employees and the public.
2	11H00 - 12H00	Industrial Water Cooling	Louw Nagel	"Using plate heat exchangers in closed circuit cooling towers to save on OPEX and CAPEX". This presentation will highlight the cost saving benefits of using plate heat exchangers as a substitute for coils. Additionally, this will also lead to a saving in operating expenses and maintenance of the cooling tower. The presentation also highlights other savings initiatives including the use of VSDs (Variable Speed Drives) to reduce the energy consumption of the closed-circuit cooling tower as well as the related open circuit cooling Towers.

Please note:

- All of the workshops are free to attend and will take place in Hall 5 of Gallagher Convention Centre during the exhibition operating times. The workshop zone will be located next to the restaurant area.
- Seats are limited, so participating in these workshops will be on a first-come, first-served basis.
- The free-to-attend workshop programme is subject to change at the discretion of the show owners and organisers.

Consult the official FRIGAIR website for any updates or changes. www.frigairexpo.co.za

See you there!

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SPEAKERS,
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