

# ASH IS NOT A WASTE !!! IT IS A RESOURCE

## SACAA SERVICES

### Advocacy:

SACAA is the industry association voice on ash related matters by influencing key-decision makers, policies and strategies in consultation with and on behalf of our members.

### Research:

Compiling a research database of all research work and influencing new developmental work amongst the universities, colleges and industry, including the facilitation and commercialisation of the work into products and commodities.

### Communication:

Provides regular relevant ash related communication to our members and broader role players to enhance awareness. Also facilitate events and conferences where necessary.

### Sustainability:

In liaison with government and industry will provide strategies, policies, processes and events to ensure a healthy environmental behaviour when dealing with ash.

### Member services:

Ash related support/mentorship is provided to all paid up members as well as at least 4 technical talks annually. A comprehensive membership database is also part of the service.

### Training:

Training capability will be established in future to cater for different certification topics. This is a new development and is aimed at improving the skills and processes.

President : Mark Hovy

## CONTACT DETAILS

The South African Coal Ash Association (SACAA) is an associate member of ASPASA.

- The administration and financial control is managed from the ASPASA offices and the ash related matters by the SACAA General Manager



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## Introducing

## THE SOUTH AFRICAN COAL ASH ASSOCIATION

## CELEBRATING

# 30 years

1987 - 2017

[www.coalash.co.za](http://www.coalash.co.za)

## WHAT IS SACAA ?

THE SOUTH AFRICAN COAL ASH ASSOCIATION (SACAA) WAS FORMED IN 1987 WITH THE FOLLOWING OBJECTIVES:

To be the umbrella association for the "ASH" Producers, Marketers, Users, Universities, Research Organisations and Individuals playing an active role in the promotion of responsible ash utilization. This is for growth and business development by our members for the benefit of the South African economy in compliance with the environmental legislation.

As a section 21 non-profit organization the association is led by a President and Council that meets quarterly as well as conducts at least 4 technical talks per annum, amongst other initiatives.

## WHO ARE OUR MEMBERS ?

Our members include some of the following:

- ⇒ Eskom Holdings SOC Limited
- ⇒ Sasol South Africa
- ⇒ Kelvin Power Station
- ⇒ Ash Resources
- ⇒ Afrimat
- ⇒ Afrisam Cement
- ⇒ Kwikbuild Cement
- ⇒ PPC Cement
- ⇒ Sephaku Cement
- ⇒ NCP Cement (Inter Cement)
- ⇒ Ulula Ash
- ⇒ CSIR
- ⇒ Consultants
- ⇒ Academics

**South Africa only produces siliceous (pozzolanic) fly ash.**

## WHAT ASH IS AVAILABLE?



Different types of ash

- Fly ash
  - Classified fly ash
  - Un-classified fly ash
- Clinker ash (old chain grate boilers)
- Cenospheres (limited availability)
- Bottom ash
- Disposed ash

South Africa produces in excess of 36 million tons of ash per annum with about a 10 % utilisation.

## WHAT ARE ITS BENEFITS ?

### In Concrete

- Increased post 28 day strength gain
- Reduced the rate of chloride diffusion through the concrete
- Prevents or retards alkali-silica reaction
- Reduced heat of hydration by up to 20 %
- Reduction of shrinking due to lower water demand
- Increase in overall durability of the concrete
- Improves sulphate resistance
- Improves the workability of fresh concrete
- Reduction in bleed water

### Environmental

- Reduction of CO<sub>2</sub> emission
- Reduces disposal volumes and neutralises waste

## WHAT ARE ITS USES ?

Typical uses of ash include:

- Cements and grouts
- Concrete Products & Bricks
- Ready mix concrete
- Artificial aggregates
- Road construction & soil stabilisation
- Soil conditioning
- Mine rehabilitation
- Agriculture