



## THE SOUTH AFRICAN COAL ASH ASSOCIATION (SACAA)

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No 23, November 2008

# ASH @ WORK

### COMMUNIQUE OF THE SOUTH AFRICAN COAL ASH ASSOCIATION

*from your Editors and President of the SACAA*

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#### Editorial

This is the last issue for 2008. We report on this year's AGM of the Association and give some information on the Council's activities. Furthermore, there is some feedback on the last Technical Meeting, "*New Vigour in South Africa's Fly Ash Arena*", held at the end of October. From this and the August issue of "*Concrete trends*" it is obvious that fly ash is making its mark and is entering a rosy future. On top of this there is a lot of activity in the *Green Building arena*. All this augers well for our Association.

Our Council member, Wayne Truter, has undergone another surgical procedure to remedy the damage caused during the hold-up, reported in the previous issue. We wish him a speedy and complete recovery.

#### Council Meeting

The 87<sup>th</sup> Council meeting was held at SAICE, Midrand on 29 October 2008. The main issues arising from the meeting were:

- Japie Krüger's resignation from Council was accepted with regret and all expressed their gratitude for Japie's involvement with the SACAA

since its inception and in ash technology in general. His offer to be available for assistance with SACAA's affairs in the future was noted with appreciation.

- With the departure of Japie from Council Wayne Truter, who also resides in the Pretoria area, was appointed to the position of vice-chairman and accounts signatory.
- Future invitations to meetings to contain an advisory note that students can attend gratis, as are members of SACAA and CSSA; proof of paid-up membership to be provided. Non-members will be charged R50 pp.
- Based on the successful formula of a Workshop/Seminar on environmental/agricultural issues held earlier this year, it was decided to hold a similar venture on Clean Development Mechanisms (CDM is the latest buzzword!) towards the middle of next year.

### **Feedback: AGM - 29 August 2008**

There was a disappointing turn-out for the Annual General Meeting, probably due to the choice of time and date (late afternoon on a Friday at the end of a month!). In future a more convenient date and time will be chosen, probably similar to the newly-found timeslot for SACAA's technical meetings.

The major achievements of the AGM were:

- a) The Association's finances are sound. The financial report for 2007/2008 was accepted, as was the budget for 2008/2009;
- b) William Burtone of PPC and Karen Surrige of UP were voted onto Council;
- c) The revised Constitution was accepted;
- d) The Administrator and Honorary Treasurer's continued position was confirmed.

### **Feedback: Lecture - "New Vigour in South Africa's Fly Ash Arena? ", 29 October 2008**

SACAA's member, Mark Hovy, looked globally at the historic past of ash utilisation before coming to the South African situation. As a well-seasoned engineer in the local ash scene and now a director of the newly-formed company Ulula Ash (Pty) Ltd, he sketched a rosy future for ash. He also showed details of his company's new and novel ash processing plant.

This successful and well-attended meeting, sponsored by Afrisam, concluded with lively discussions over refreshments.

### **Lime Stone Mining Rights**

In the previous issue of ASH @ Work, under the title "Nigerian Investment" we reported about the new Sepaku cement plant. According to Dr Lelau Mohuba, chairperson of Sepaku, the Department of Minerals and Energy has granted Sepaku Development a 30-year limestone mining right. (Source: Esmarie Swanepoel, Engineering News, 17 Nov 2008).

### **Ash Usage in full swing**

There are two papers in the August 2008 issue of CNCI's publication *Concrete Trends*, that put a lot of emphasis on the beneficial use of classified ash. In the cover feature, ***Putting the lid on the calabash***, author Laurens Lonsdale ponders the intricacies of the construction of the massive concrete skeleton of Johannesburg's Soccer City. Designed in the shape of a calabash, it will be the biggest football World Cup venue ever. On page 6, under the subheading ***Extensive use of fly ash***, Mike Moody, Grinaker-LTA's project director for the Soccer City upgrade is quoted as follows: "Whenever possible we have based our concrete work on a 70/30 CEM I/Dura-Pozz® fly ash mix, which is virtually a standard approach in the industry. Obviously we must take advantage of the raw material cost savings that can be achieved with fly ash on a project of this magnitude but there are also significant productivity savings and other benefits. We are pumping over 75% of the concrete and Dura-Pozz® enhances the pumpability and prolongs workability. Using a quality fly ash also helps to achieve good off-shutter finishes, which will be feature of a prestigious exposed concrete structure such as this. Even the SCC (self compacting concrete) in the façade columns contain fly ash." The fly ash advantages were supported by Lance Gray

Wearne's regional manager, who installed a state-of-the-art computerised batching plant for the project. On page 10 another subheading ***Fly ash and the environment*** details the following: "Fly ash is an environmentally-friendly product. Worldwide, the increasing use of fly ash as a component of building materials is making a significant contribution to sustainable development by:

- reducing the use of non-renewable resources such as limestone and coal
- reducing carbon dioxide emissions from the cement industry
- recycling a waste product of coal-burning power stations, reducing landfill sites".

### **SA's green building rating tool**

South Africa's first voluntary green building rating tool, the Green Star SA – Office version one, was officially launched by the Green Building Council of South Africa (GBCSA) in Cape Town, as part of the first annual GBCSA convention and exhibition early in November. GBCSA's chairperson, Bruce Kerswill, and technical manager Jason Buch, elaborated on the system, which is based on the Green Building Council of Australia's Green Star – Office Design version three rating tool. It consisted of eight environmental categories, including energy, indoor environment quality, management, transport, water, materials, land use and ecology, and emissions, as well as an innovations category. (Source: Jade Davenport, Engineering News, 14 Nov 2008).

### **The Green Building Handbook – A guide to ecological design**

This was advertised by the Green Building Media, with the offer of a media pack. Contact details are Tel: 021 674 5807 or e-mail: [bookings@greenbuilding.co.za](mailto:bookings@greenbuilding.co.za) and [www.greenbuilding.co.za](http://www.greenbuilding.co.za)

### **Energy-efficiency standard likely to become mandatory**

Late in October SANS 204 standard was published, which is still a voluntary standard for improving the energy efficiency of buildings. However, Bahle Sibisi, chairperson of the SABS says that the Department of Minerals and Energy could soon make it mandatory. (Source: Brindaveni Naidoo, Engineering News, 14 Nov 2008)

### **Last Snippet**

To all our readers and their families: Enjoy the festive season, have a good break, and everything of the best for 2009 !!!

## FORTHCOMING EVENTS

**2nd Annual Forum "REACH in Practice", Amsterdam, Netherlands, 3 - 5 December 2008.**

Information available from: Frank Araneta, [FrankA@marcusevanses.com](mailto:FrankA@marcusevanses.com)

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**World of Coal Ash (WOCA) 2009, Lexington, Kentucky, USA, 4 - 7 May 2009**

A call for papers has been sent out by the American Coal Ash Association (ACAA).

Website: [www.worldofcoalash.org](http://www.worldofcoalash.org)

## IN THE NEXT ISSUE

We hope to look at a topic suggested by our readers. **So, how about it? Please send in your contribution.!**

### YOUR SACAA COUNCIL 2008/9

**Office Bearers:**

Richard Kruger (President)  
Wayne Truter, UP (Vice President)  
Dieter Heinichen (Treasurer/Administrator)

**Council members [& alternates]:**

Jean-Bosco Kazirukanyo, Afrisam  
[Claudene Moorgas, Afrisam]  
Matthew Reynolds, Ash Resources  
[Graeme Smith, Ash Resources]  
Tyrone Singleton, Eskom  
Eduardo Auger, PPC Cement  
[Walter Wirth, PPC Cement]  
William Burtone, PPC  
Karen Surridge, UP  
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[Reinhold Amtsbüchler, Lafarge SA]

The editorial team would welcome any information for publication in forthcoming **Ash@Work** newsletters.

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**Disclaimer:** *The views expressed in this newsletter are not necessarily those of the Council of the South African Coal Ash Association*