

FEEDBACK OF THE SACAA WORKSHOP

COAL ASH – A GREY MATERIAL FOR A GOLDEN FUTURE

That was held at the University of Pretoria on 13 October 2011

There was a good turnout of 128 registered delegates.

The Final Programme of this Workshop was:

SESSION 3: ASH PROCESSING AND NEMWA

- 13:10 – 13:45 **RECOVERY AND PROCESSING OF FLY ASH FOR COMMERCIAL USE**
(Mr Peter Reid, Ash Resources)
- Integrated recovery from the power station
 - Pneumatic transport
 - Testing of fly ash
 - QA and QC
 - Despatch
- 13:45 – 14:15 **NATIONAL ENVIRONMENTAL MANAGEMENT WASTE ACT (NEMWA)**
(Mr. Hanré Crous, e-Science)
- 14:15- 14:45 **ESKOM /SACAA APPROACH TO NEMWA**
(Prof Richard Kruger, SACAA) & (Warren Funston, Eskom)
- 14:45 – 15:05 **DISCUSSION**
- 15:05 – 15:25 **TEA**

SESSION 4: CONCLUDING

- 15:25 – 16:00 **FLY ASH UTILISATION: CAN WE EMULATE THE USA AND EUROPE ?**
(Prof Richard Kruger, Richonne Consulting)
- 16:00 – 16:30 **CLOSURE**
- 16:30 – 18:00 **COCKTAILS**

SESSION 1: COAL COMBUSTION, ENVIRONMENTAL IMPACT AND ASH CHARACTERISATION

08:00 – 08:30	ARRIVAL AND COFFEE
08:30 – 08:45	WELCOME AND SETTING THE SCENE (Mr Vusi Mboweni, Eskom)
08:45 – 09:20	COAL COMBUSTION (Dr Chris van Alphen, Eskom) <ul style="list-style-type: none">• Origin and types of coal• Combustion technologies and genesis of ash• Pulverised coal• Fluidised bed
09:30 – 10:05	ENVIRONMENTAL IMPACT (Dr Tony SurrIDGE, SANERI) <ul style="list-style-type: none">• Fossil fuel energy production• Environmental Impact• Carbon capture and storage
10:05 – 10:40	CHARACTERISATION OF ASH (Dr Sabine Verryn, XRD Analytical) (Ms Busisiwe Nyembe, PPC) <ul style="list-style-type: none">• Analytical techniques• Compositional (XRF, ICP)• Glass phase (XRD)• Mineral phase (XRD)• Size distribution• Morphology (SEM)
10:40 – 11:00	DISCUSSION
11:00 – 11:15	TEA

SESSION 2A: FLY ASH IN CEMENTITIOUS SYSTEMS

11:15-11:35	ACHIEVING HIGH STRENGTH CONCRETE WITH RELATIVELY HIGH PERCENTAGES OF FLY ASH (Prof Elsabe Kearsley, UP)
11:35-11:55	AN OVERVIEW OF FLY ASH IN CONCRETE, THE MIRACLE CURE (Ms Santie Gouws, CSIR)
11:55-12:15	FLY ASH IN CEMENTITIOUS SYSTEMS E.G. GROUT PACKS, TILE ADHESIVES, STABILISATION, FOAM (Mr Mark Hovy, Ulula Ash)
12:15-12:30	NEW FLY ASH SPECIFICATION SANS 50450 (Mr Lehlohonolo Madumo, Lafarge)
12:30-12:35	DISCUSSION

SESSION 2B: FLY ASH IN THE ENVIRONMENT

11:15-12:15	ENVIRONMENTAL/AGRICULTURAL MINE REHABILITATION (Dr Wayne Truter, UP) <ul style="list-style-type: none">• Coal mines• Gold mines SOIL AMELIORATION (Dr Karen Surridge-Talbot, UP)
12:10-12:35	DISCUSSION
12:35 – 13:10	LUNCH