

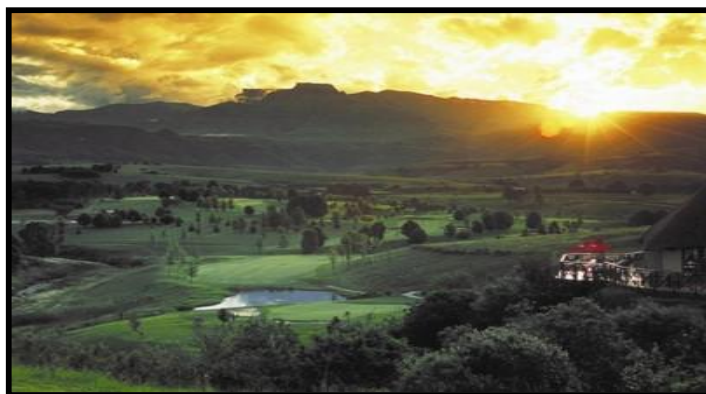
FFF FOSSIL FUEL
FOUNDATION
OF AFRICA



Presents

KZN COAL INDABA - 2010

**A REVIEW OF THE COAL AND ANTHRACITE INDUSTRY
IN KWAZULU-NATAL 2010**



Conference

11th & 12th August 2010

Field Trip

13th August 2010

Second Announcement & Programme

Geological, Mining, Marketing, Utilisation and Environmental Aspects of Coal and Anthracite in KwaZulu-Natal

Venue

Champagne Sports Resort, Central Drakensberg, KwaZulu-Natal

OBJECTIVES

The purpose of this two-day conference is to bring together all those involved in the coal and anthracite related industries in KwaZulu-Natal and further afield – mining, marketing, consuming, technical supplying and advising sectors - in order to provide a forum for the presentation of ideas and discussion on all issues related to the development of those industries in this province.

BACKGROUND

As background to the conference, it must be noted that the era of cheap fossil fuels is coming to an end; at the same time global pressures to reduce greenhouse gas emissions, and hence limit the effects of climate change, are requiring a drop from today's emissions of 6.7 tons for every person on Earth to 1.6 tons by 2050. Coal alone accounts for 1.8 tons today. Without significant increases in coal combustion efficiencies and successful carbon capture and storage, it is suggested that the industry won't make it to 2050.

MOTIVATION

The KwaZulu-Natal coalfields – the oldest in the country - are undergoing renewed exploration and investigation following the closure of many older mines in the region further to depletion of reserves and many new players are entering the field. Whilst the closure of old mines has caused environmental and socio-economic issues in some areas of these coalfields, it is anticipated that new coal mines will play an extremely important role in satisfying the demands of specific local and international export lean-bituminous and anthracitic markets in the short, medium and long term futures from that region.

Given that the initiation and sustaining of mining projects of any kind, and specifically coal projects, are extremely complex and arduous, this conference aims to address the practical, logistical, legal, marketing and financial knowledge base of those parties embarking on or currently involved in coal mining ventures. It will also address the usage of the coals in the region along with the issues concerning environmental constraints imposed in certain geographical areas and the substitution of coal by gas and biomass through co-firing.

In so doing this series of conferences seek to provide a forum for the acquisition and exchange of pertinent and practical information, the creation of networking opportunities and the exposure of relevant support services.

WHO SHOULD ATTEND

Coal mining venture developers, mining service companies, equipment suppliers, mining contractors, logistics organisations, coal users in all sectors of the energy and heat-producing markets, environmentalists, financing companies, technical consultants, marketing organisations and provincial and governmental representatives – and all who may have a role to play in coal industrialisation of KwaZulu-Natal.

PRESENTATIONS

All presentation must be in MS PowerPoint format. Subject to authors' permission, these presentations will be converted to pdf format after the presentation and will be made available on CD to conference delegates at the close of the conference.

PROGRAMME

Wednesday 11 August 2010

13:00-13:45	Conference Registration	
13:45-14:00	Welcome	FFF President
		Session 1
14:00-14:45	PLENARY ADDRESS Our Future Depends on the Past: Southern Africa's remarkable fossil record and its relevance to us today	Professor Bruce Rubidge <i>BPI, University of the Witwatersrand</i>
14:45-15:15	Resources and reserves of coal in SA – focus on KZN	Xavier Prevost <i>XMP Consulting</i> Presented by Philip Lloyd <i>Cape Peninsula University of Technology</i>
15:15-15:45	Coal Exploration in Natal: Trials and Tribulations - Triumphs and Trends	John Hancox <i>CCIC</i> Dave Thompson <i>DWT & Associates</i>
15:45-16:00	Tea & Coffee Break	
		Session 2
16:00-16:30	Uitkoms: A success story	Anton Schlebusch Rolf Schindler <i>Uitkoms Mines</i>
16:30-17:00	Heated bed separated	Mark Craddock <i>QVA Process Technologies</i>
17:00-17:15	Day's Wrap-up & Discussion Cocktail Party & Finger Supper	

Thursday 12 August 2010

08:30-09:00	Conference Registration	
		Session 3
09:00-09:30	Bituminous coal marketing in KZN	Garth Loades <i>Natal Associated Collieries (Pty) Ltd</i>
09:30-10:00	Steaming ahead in KZN – going green	Norman Harvett <i>Karbon Services</i>
10:00-10:30	Tea & Coffee Break	
		Session 4
10:30-11:00	Fluidised bed combustion: BFBC Versus CFBC combustion	Hans Verbanck <i>Alstom John Thompson</i>
11:00-11:30	Fluidised bed combustion: CFBC Research using South African coals in Finland – a case study	Rosemary Falcon <i>University of the Witwatersrand</i>
11:30-12:00	Majuba UCG – Methodologies and Geology	Mike Beeslaar <i>Eskom</i>
12:00-12:30	Municipal waste disposal - alternatives for energy efficiency and energy generation	Chris Whyte <i>Chris Whyte Associates</i>
12:30-13:30	Lunch Break	

]Session 5

13:30-14:00	Perspectives on non-fossil sources of energy, particularly biofuels	Brian Purchase <i>Consultant</i>
14:00-14:30	International coal markets current and the future	Bill Lamont <i>Mhlatuze Coal</i> Rosemary Falcon <i>University of the Witwatersrand</i>
14:30-15:00	The role of Southern African coal in the future world carbon-constrained economy	Dave Collins <i>MAC Consulting</i>
15:00-15:30	Dundee presentation on water pollution	Danel von Tonder <i>Council for Geoscience</i>
15:30-15:45	Tea & Coffee Break	

Session 6

15:45-16:15	Climate change and contentious issues from a geological perspective	Philip Lloyd <i>Cape Peninsula University of Technology</i>
16:15-16:45	Geology of the Permian Karoo in the Cathedral Peak area	Gideon Groenewald <i>Geoconsultant</i>
16:45-17:15	Romancing the stone – South African Geotourism	Gerald Davie <i>GeoZone GeoServices</i>
17:15-17:45	Day's Wrap-up & Discussion	
19:00	Conference Dinner	

Field Trip Friday 13 August 2010

09:00 – 16:00

Leader: Gideon Groenewald

Gideon Groenewald is a geoconsultant with 30 years experience in geological mapping, ground water related projects and environmental education in the rural and farming regions of southern Africa. He has written many scientific and popular articles and has appeared in a number of television programmes, including the BBC TV series "Earth Story". Gideon is co-author of "Maloti-Drakensberg Experience" Tourism Publication (2007).

GEOLOGY & PALAEOLOGY OF THE AREA.

The field excursion following the conference proceedings intends to highlight some of the Permian and Triassic palaeontology of the Drakensberg Escarpment in the Winterton Region. Most of the information relates to recent research done at the Ingula Pumped Storage Scheme of Eskom Holdings Pty Ltd. The field excursion will however be restricted to a radius of 75km from the conference venue.

The Ingula Pumped Storage Scheme is an ambitious construction project undertaken by Eskom Holdings (Pty) Ltd to transfer water from the base of the Drakensberg Escarpment near Ladysmith in KwaZulu-Natal to the top of this escarpment in South Africa. The purpose of this transfer of water is mainly to enhance the main supplier of electricity in South Africa to generate emergency supplies during peak demand.

The construction of infrastructure at the Ingula Pumped Storage Scheme includes the building of two reservoirs, a lower Braamhoek Dam and the upper Bedford Dam. The two reservoirs will be connected via underground conduits, consisting of two major tunnels that will take water through a hydro-power plant that will be located underground. The excavations for the Braamhoek Dam were mainly into dolerite as well as dark shale of the Volksrust Formation, Ecca Group. The excavations for the underground works cut from bottom to top through the Volksrust Formation of the Ecca Group into the Normandien Formation of the Beaufort Group. The excavations for the Upper Bedford Dam, the Tunnel Inlet Works, the Surge Chambers and the main quarry cut into the Schoondraai Member, Normandien Formation (upper Permian *Dicynodon* Assemblage Zone. Exposure of the Normandien Formation mudstone and sandstone, mainly the fluvial sequence associated with the base of the Schoondraai Member, afforded an opportunity to collect a large number of plant and vertebrate fossils. The fossils collected during the construction phase of the Bedford Dam include remains of gorgonopsian and *dicynodon* fossils, ranging from juvenile to adults in the one collection.

The field excursion intends to introduce the participant to some examples of fossils from the Permian as well as the Triassic sediments in the Loskop area where examples of plant fossils of *Glossopteris* as well as vertebrate fossils of *Dicynodon* and *Lystrosaurus* have been discovered. The excursion will take the participants as far as Bergville, Winterton and Loskop where outcrops containing palaeontological information will be visited.

ACCOMMODATION

Champagne Sports Resort is situated in the tranquility of the Central Drakensberg, boasting the most spectacular view of Champagne Castle and Cathkin Peak. This cosy hideaway's unique combination of convenient location, country club atmosphere, luxury accommodation and friendly staff makes packing your bags to leave this eternal place a challenge.

Champagne Sports Resort is more than a hotel in the mountains, it is an experience. From the 18-hole championship golf course to the roaming herds of Blesbok and Impala and the rare birdlife that inhabit the estate, there is something for everyone to enjoy. And, with five dams stocked with bass or trout, as well as outstanding sporting facilities and cultural activities, this enduring resort provides a balance between recreation for sports enthusiasts and tranquility for those seeking relaxation.



TECHNICAL COMMITTEE

Chairman: Dave Thompson, DWT & Associates, Geological & Geotechnical Consultants
Professor Rosemary Falcon, University of the Witwatersrand
Professor Ricky Pinheiro, Riversdale Mining

GOLF AT CHAMPAGNE SPORTS RESORT

The scenic 18 hole Championship Golf Course was designed with exciting challenges to challenge even the keenest devotee of the game. The clubhouse is fully equipped with changing rooms, halfway house and bar with a large extended deck with magnificent views, overlooking the hidden golfing masterpiece of Champagne Sports Resort. Ranked No. 22 in South Africa, Champagne Sports Resort has recently been rated as South Africa's most beautiful golf course.

Please contact Champagne Sports Resort for more information. +27 (0)36 468 8000.
proshop@champagnesportsresort.com or visit their website www.champagnesportsresort.com



SPA AT CHAMPAGNE SPORTS RESORT



Champagne Sports Resort Salon boasts a well balanced range of treatments and products to ensure you leave feeling revitalized and refreshed. Our broad range of treatments and incredible views from the resting area ensure a relaxing up-market salon experience. The new gym is fully equipped to ensure training options to suit all requirements from general weight training to cardiovascular exercise.

Please contact The Spa at Champagne Sports Resort on +27 (0)72 611 1767.

OTHER ACTIVITIES IN THE VALLEY

Horse Riding		Snooker and Pool		Helicopter Flips
Falcon Ridge		Battlefield Tours		Ardmore Ceramic Studio
Various Arts and Crafts		Thokozisa Mountain Café		
Four Rivers Rafting		KwaZulu Weavers Rug and Candle Factory		

CONFERENCE SECRETARIAT

RCA Conference Organisers
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Title (<i>Prof/Dr/Mr/Mrs/Ms</i>)					
Surname					
First Name					
Company or Organisation (<i>to be invoiced</i>)					
Company VAT number					
Purchase Order number					
Your position in company					
Postal address (<i>for the invoice</i>)					
Telephone		Mobile			
Email (<i>please print clearly</i>)					
Accounts contact person					
Accounts Telephone number					
Accounts email address					
FFF Membership number					
CONFERENCE REGISTRATION FEES					
Full Registration fees include: <i>Delegate folder, name tag, entrance to all sessions, abstract book & programme, CD of presentations, tea/coffee, lunches, cocktail party & finger supper, conference dinner & field trip.</i>					
FFF / GSSA Member		R4 500.00 (incl. VAT)			
Non-Member		R5 000.00 (incl. VAT)			
Fully Retired Person/Full time Academic or Student		R3 000.00 (incl. VAT)			
Presenter / Media / Guest		No Registration Charge		Charges for cocktail/ dinner/field trip as below for non registered delegates	
I will attend the cocktail party on 11 Aug		Yes	No	Ticket R200	
I will attend the dinner on 12 Aug		Yes	No	Ticket R300	
I will attend the field trip on 13 Aug		Yes	No	Ticket R300	
I wish to join FFF as a Member?		R350.00 (incl. VAT)			
ACCOMMODATION at Champagne Sports Resort					
Bookings taken until 30 June 2010 (payment by 30 June 2010)					
Please tick as required – per night B&B basis					
Single R1 325.00 per person per night	10 Aug	11 Aug	12 Aug	13 Aug	Total Nights
Sharing R1 015.00 per person per night	10 Aug	11 Aug	12 Aug	13 Aug	Total Nights
Name of person you are sharing with					
I have read and understood the terms and conditions of registration as stipulated below Signed:				Date:	

TERMS & CONDITIONS

Please note: if your registration fees have not been paid by your company by 30 July 2010, you will be personally liable for the full amount which must then be paid by 10 August 2010. Attendance is STRICTLY subject to prior payment.

An invoice will be issued on receipt of a completed registration form. Please forward a deposit slip or transfer form with the invoice number as a reference is required as proof of payment.

Please fax this form to +27 11 728 1675 or email to robbie@rca.co.za or register@rca.co.za

CANCELLATION OF THIS REGISTRATION - Cancellation may be made in writing prior to 10 days before the conference; a 25% administration fee will be charged for cancellations made within 10 days of the conference. No refund or credit note will be issued if written cancellation is not received timeously. You will then remain liable for full payment of the invoice. Registrations are transferable.

FFF, P O Box 72147 Parkview 2122 Tel 011 728 8173 Fax 011 728 1675