



## **DOBLE AFRICA CONFERENCE 2008**

*Eskom Convention Centre, Midrand*

*Johannesburg, South Africa*

*5<sup>th</sup> – 7<sup>th</sup> August 2008*

### **PROVISIONAL CONFERENCE PROGRAM**

*\*The following program is preliminary and subject to change\**

#### **Day 1 – 5<sup>th</sup> August 2008**

**9h00 – 9h30                      Registration**

**9h30 – 11h00                      Optional Tutorial One: Circuit Breakers**

The tutorial shall cover the following sections:

Basic theory on current interruption;

Different circuit breaker design and their characteristics;

Circuit breaker duties

Manufacturing Standards (IEC and IEEE factory tests);

Circuit breaker failures in service – modes and causes

Circuit breaker field testing

Circuit Breaker life extension

***Presenter: Mr. Jozef Levi***

**11h00 – 11h15                      Tea Break**

**11h15 – 13h00                      Optional Tutorial Two: Transformer oil**

The tutorial shall cover the following sections:

Different DGA interpretation techniques eg IEC, IEEE Key Gas, Rogers Ratio etc

Doble DGA Scoring Algorithm

Tear down experience with Furans

Oil analysis and their role in condition assessment

Corrosive Sulphur - General overview and update of recent developments

***Presenter: Dr. Richard Heywood***

**13h00 – 14h00                      Lunch**

**14h00 – 16h00                      Optional Tutorial Three: Partial Discharge – A Practical Appreciation**

What is Partial Discharge?

Where does Partial Discharge cause failures?

Diagnostics

    Survey techniques

    Measurements to IEC 60270

    On line monitoring

***Presenter: Dr. Alan Wilson***

**16h00                                      End of Day 1**



Day 2 – 6<sup>th</sup> August 2008

**9h00 – 9h30**                    **Registration**

**9h30 – 9h40**                    **Welcome and Introduction**

The conference will start with a welcome and introduction by Jay Gosalia (VP Doble US).

**9h40 – 11h00**                    **Keynote Addresses**

*Theme: Managing system growth and performance*

Speakers:

***Eskom: Mr. E Shunmagum: Primary Plant Support Manager***

***Kenya Power and Light Company: Mr. JK Njoroge: Managing Director***

***City Power: Mr. S Zimu: Managing Director***

***NamPower: Mr. B Vermeulen: General Manager: Transmission***

**11h00 - 11h15**                    **Tea Break**

**11h15 – 13h00**                    **Switchgear**

Review of Doble Conference papers

Failures and diagnostic testing of HV live tank circuits

Failures and diagnostic testing of MV metal clad switchgear and ring main units

Diagnostic testing of GIS

Internal arc testing

**13h00 – 14h00**                    **Lunch**

**14h00 – 15h45**                    **Arresters, Cables and Accessories**

Review of Doble Conference papers

Arrester design, failures, field testing and new technology to improve reliability

Cable failures, diagnostic test techniques and new technology to improve reliability

Cable termination failures and test techniques and new technology to improve reliability

**15h45 – 16h00**                    **Tea Break**

**16h00 – 17h30**                    **Bushing, Insulator and Instrument Transformers**

Review of Doble Conference papers

Bushing failures, on line monitoring and performance of polymeric bushings

Insulator design, failures and diagnostic test techniques.

Current transformer failures and on line monitoring techniques.

**17h30**                                **End of Day 2**



Day 3 – 7<sup>th</sup> August 2008

**9h00 – 9h30                      Registration**

**9h30 – 11h00:                Asset and Maintenance Management**

Review of Doble Conference papers  
Maintenance strategies on all HV plant  
Asset Health Indices and Capital Replacement  
Condition assessment methods  
Management of Asset data

**11h00 – 11h15                Tea Break**

**11h15 – 13h00                Insulating Materials**

Review of Doble Conference papers  
Transformer oil – specifications, selection, DGA and corrosive sulphur  
Vacuum bottle technology  
SF<sub>6</sub> testing, handling and disposal  
PCBs

**13h00 – 14h00                Lunch**

**14h00 – 17h30                Transformers**

Review of Doble Conference papers  
Specifications and Design Review  
Factory and site testing  
Factory evaluations  
Maintenance practices  
Life cycle management  
Diagnostic testing  
Failures and troubles  
On line tests

**17h30                              End of Day 3**