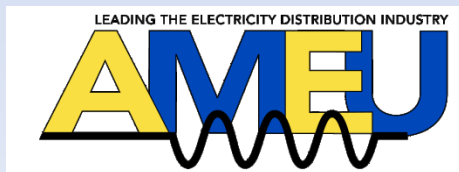




Summary of 2009 Convention Proceedings

Peter Fowles

30 September 2009





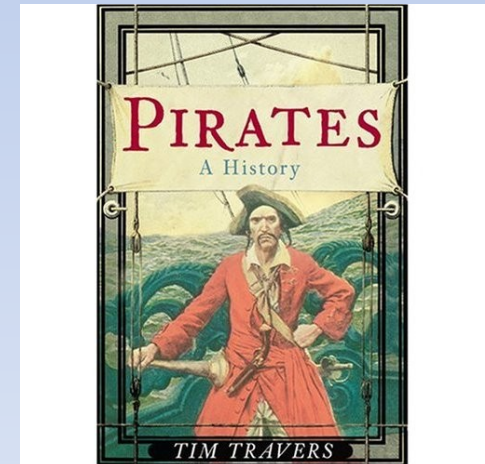
2009 Champions???





Affiliates Sports Day

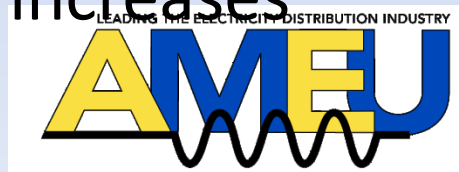
- Golf, Bowls and a hike
- Much fun
- Sports prize giving and dinner at Happy Valley
- Many thanks to Affiliates





Opening Session

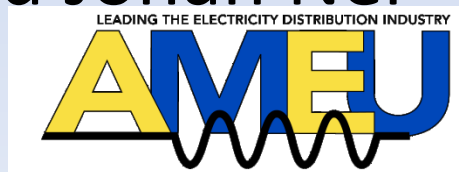
- Scene set by the lovely music of Professor Albert Troskie and the EP Childrens' choir
- Welcome by our President
 - Stressed the many issues to be addressed
- Minister Ms Dipuo Peters- keynote address
 - How to deal with the R27bn backlog?
 - Call to introduce stepped tariffs – the more you use.....
 - Introduce 1million SWH by 2014
 - No rapid tariff increases





Opening Session

- Warm welcome by Councillor Ntunzi Tokota
 - NMBM to establish an energy efficiency Department
 - REDs have experienced FATIGUE – technical issues to be resolved
 - Well prepared for WC 2010
- 62nd Convention 2010 – invitation from Cllr Mgijima of Stellenbosch Municipality
- Honorary membership conferred on Sandile Maphumulo and Johan Nel





1st Session – Day 1: Asset Management

- Hugo Mostert - Interface between the business and the system that you use
 - Gap between financial and asset systems
 - Best system will fail if do not understand building blocks
 - Top management must be involved



1st Session – Day 1: Asset Management

- Dwayne Baker & Danie van Wyk - Policy on engineering contributions
 - Recovery of shared infrastructure capital
 - All munics should adopt an engineering services contribution policy
 - Use the services agreement to enforce
 - NRS069 provides clear guideline
 - Development will only be sustainable with effective contributions



1st Session – Day 1: Asset Management

- Xolani Lembede - Reinventing Old Grids – Taking Steps to Assess Against Risk Failure
 - Currently pressure to restore supply – no analysis of incident[s]
 - Need to analyse the cause of the problem
 - Should result in a refurbishment/replacement plan
 - Resulted in a significant decrease in unplanned maintenance [95% to 5%]



2nd Session – Day 1: New Technology

- Chris de Kok - Compact substations solutions
 - Use of mixed technology switchgear [MTS]
 - Combination -AIS [conventional] & GIS [compact]
 - Higher flexibility of substation layout
- Andy Stoner - The evolution of pre-paid metering and load control systems
 - Needs of stakeholders and utilities
 - Max convenience and minimum hassles
 - Protect investments and keep costs down





2nd Session – Day 1: New Technology

- Willie van Wyk - The application of modern technology in power quality management
 - A practical web based PQ management system
 - Lack of skills forces us into using tools and procedures
 - Young industry but old equipment
 - Warning that PQ will become of increasing importance
 - Automatic retrieval of data via a PQ portal





Final Session – Day 1: System Performance

- Coetzee van Heerden - Bushing failures in medium voltage switchgear
 - SF6 MV switchgear failures – major damage
 - Not arc quenching medium – PD on bushings
 - Recommendations for early detection of PD activity



Final Session – Day 1: System Performance

- Lucky Ngidi – Implementation of the Distribution Grid Code
 - Set out obligations of participants regarding the use, development and operation of the DS
 - No enforcement of codes as not yet licence condition
 - Distributors >100MVA to comply by Non 2009
 - Phase 2 – will workshop with $\geq 50 \leq 100$ MVA
 - Compliance for good of business





Social Activities – Day 1

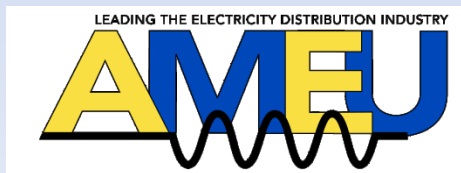
- Ladies treated to a most enjoyable day at Arlington Race Course – thanks to Powertech
 - Motivational talk by Karen Kelly followed watching the horses race
 - and a little fashion advice from Karel Leerink
- Well attended Civic Reception at the Feather Market Centre hosted by the NMBM
 - Wonderful food
 - Painted faces and lovely drum music





1st Session – Day 2: Management in a Municipal Environment

- Sicelo Xulu - Challenges of providing energy infrastructure in a big City
 - Need to expand their infrastructure to support growth
 - 5 year infrastructure rolling plan – systematic and structured
 - Positively contributed to poverty alleviation
 - Success but still lot of challenges; lack of resources, technology and service delivery protests





1st Session – Day 2: Management in a Municipal Environment

- Adrian Vermaak - Skills development and staff retention
 - Alarming loss of skills to RSA
 - Money is not the primary motivator
 - Must create right environment where people want to stay – a Culture of Learning
 - Mechanisms that develop staff
 - Can make a difference if we are positive



1st Session – Day 2: Management in a Municipal Environment

- Jason Smith - Telemangement of public street lighting infrastructure
 - GG31250 forcing better means of controlling street lighting
 - Telemangement can provide that control
- Ron Millard - Non Technical Losses – How do other countries tackle the problem?
 - Solutions are culture dependent
 - Get attention when it given a high priority



1st Session – Day 2: Management in a Municipal Environment

- Robert Koch - Emergency load reduction and system restoration practices (NRS 048-9)
 - National protocol for managing
 - System constraints [load shedding and/or curtailment]
 - Blackout – load and system restoration
 - Definition of critical and essential loads
 - System adequacy reports [AMEU web link]
 - Crucial issue around facilitating predictability



1st Session – Day 2: Management in a Municipal Environment

- Alan Palmer - Managing municipal energy efficiency through voltage power optimisation
 - Eliminates energy waste on the incoming power
 - Not merely a reduction in volts
 - Supplies an optimum supply voltage resulting in energy saving



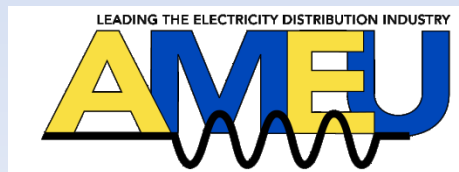
1st Session – Day 2: Management in a Municipal Environment

- Willem Du Toit - The role of human behaviour versus organisational and legislative standards in electrical incidents
 - Current H & S approach gives little cognisance of human risk behaviour
 - Risk behaviour influenced by individuals perception of risk
 - Strong cultural influences on perception of risk and subsequent risk taking behaviour



2nd Session – Day 2: EDI restructuring update

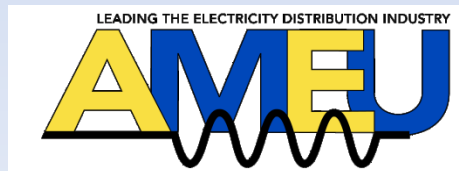
- Willie de Beer - Practical perspective of the RED Business Model
 - Industry in its current format not sustainable
 - Environment is ready for the EDI restructuring
- Sandile Maphumulo - SALGA NMA resolutions on the EDI restructuring process
 - Reaffirmed commitment to restructuring
 - AMEU to provide technical input on LG negotiations





Final Session – Day 2: Safety Briefings

- Dwayne Baker – our responsibility for civil contractors
- Roy Wienand – MV switchgear failure
- Rob Ferrier – safety and regulations
- Barry Gass - safety operations on medium voltage switchgear
 - Cant put a price on safety
 - Not thinking what they are doing
 - WAY of LIFE





Social Activities – Day 2

- Ladies started their day with a train ride – thanks to CBI Electric
 - Took the Apple Express train to Chelsea
 - Posed for photos
 - Returned for a fun show at the Uptown Theatre
- Gala Evening at the Kwantu Towers
 - Broadway theme
 - Mrs von Memerty



1st Session – Day 3: 2010 World Cup

- Tommy Edmondson & Clinton Cater-Brown - an assessment of the specification and readiness of the stadia electricity supplies
 - Stringent lighting quality requirements
 - Warning to be prepared for overlay supply
- Sicelo Xulu & Sanjay Bhana - Lessons for 2010 tournament from 2009CC experience
 - Much local planning/coord via the RTT
 - Risk management approach for 2010



1st Session – Day 3: 2010 World Cup

- Teresa Carolin - risks to the electricity supply for the 2010 tournament – national capacity outlook
 - Our role is essential for the success of the event
 - No maintenance planned and adequate capacity for period of tournament
 - ‘Anything can happen’ and all must plan to deal with unexpected events



2nd Session – Renewable energy and energy efficiency

- Wikus van Niekerk - Renewable Energy in South Africa: Resources, Research and Projects
 - Number of projects to map renewable energy resources - 10 000GWh by 2013 (White Paper)
 - REFITs will stimulate the sector



2nd Session – Renewable energy and energy efficiency

- Liteboho Makhele – climate change risks and opportunities for the EDI
 - No longer a “fringe” issue
 - Responses are part of the ‘energy revolution’
 - Investors now requiring reports – Carbon Disclosure Project (CDP)
 - Will impact on how utilities will operate
 - 2c/kWh levey on non-renewable generation



2nd Session – Renewable energy and energy efficiency

- Neil van der Merwe - The role of renewable energy legislation in promoting the acceptance of renewable energy into society
 - Need for renewable energy and reasons for RSA lagging countries like Germany
 - South Africa has policy in the 2003 White Paper but some anomalies in implementation
 - Need an Act of Government that mandates RE
 - Mandatory connection of RE to grid



Thank you

- Thank you to all the presenters
- Thank you to the Affiliates for the Sports Day, sponsorships and Exhibition
- Thanks to the AMEU Secretariat
- Thank you to the team from Nelson Mandela Bay Electricity and all who have contributed to an enjoyable and very interesting Convention

