3rd Annual

DAM MANAGEMENT AFRICA

-Best Practice In Rehabilitation, Maintenance, Infrastructure & Operations

Date: 30 & 31 July 2013

Venue: GALLAGHER ESTATE, JOHANNESBURG

SPEAKER FACULTY INCLUDES:

DWA PERSPECTIVE

Petrus Venter
Deputy Regional Director: Northwest IWRM & Catchment Strategies
DEPARTMENT OF WATER AFFAIRS

Wongalethu Joxo
Deputy Director: Enterprise Risk Management
DEPARTMENT OF WATER AFFAIRS NWRI: CENTRAL OPERATIONS

NEIGHBOURING COUNTRIES PERSPECTIVES

Kenneth Msibi
Water Policy & Strategy Expert
SADC SECRETARIAT: DIRECTORATE OF INFRASTRUCTURE & SERVICES, WATER DIVISION

Lithathane Matete
Dam Safety & Surveillance Engineer
(Mohale Dam)
LESOTHO HIGHLANDS DEVELOPMENT AUTHORITY

Thabiso Kolane
Dam Safety Technician (Katse Dam)
LESOTHO HIGHLANDS DEVELOPMENT AUTHORITY

Jose Rodrigues Mapola
Hydrology Specialist
CAHORA BASSA DAM (ZAMBEZI)

EXPERT ADVISE

Thulani Mponenthane
Asset Manager
UMGENI WATER

Mariette Lieffenrink
CEO
FEDERATION FOR A SUSTAINABLE ENVIRONMENT

Pramod Sinha
Former Civil Engineer, DWA Currently Senior Lecturer
UNISA

Ilunga Masengo
Associate Professor Civil Engineering Department
UNISA

Dr Tendai Sawunyana
Hydrology & Water Resources Specialist Expert
IWR WATER RESOURCES

Stephen Mallory
Director
IWR WATER RESOURCES

John Wates
Managing Director
FRASER ALEXANDER

Herman Venter
Technical Manager
FRASER ALEXANDER

KEY STRATEGIES TO BE DISCUSSED

- Evaluating The Safety Of Your Dam In Line With The Dam Safety Act
- Identifying The Remainder Of Dams That Needs Urgent Rehabilitation
- Considering The Importance Of Dam Efficiency For Long-Term Water Security
- Integrated Water Resource Management & Catchment Strategies
- Designing Slope Geometry & Erosion Protection For Long Term Sustainability Of Earthen Embankments
- Best Practise In Dam Management, Operations & Maintenance
- Guaranteeing The Quantity And Quality Of Water Produced By Dams
- Optimisation Of Dams Operations In The SADC Region

CONFERENCE HIGHLIGHTS

- A Real-Time Operating Decision Support System (DSS) For The Sabie-Sand River System
- Ergo & Daggafontein Rehabilitation
- Dam Management, Operations & Maintenance Of Leshoto Highlands Water Project

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DAY ONE - 30 JULY 2013

08:00 Opening Remarks By Chair
Wongalethu Joxo
Deputy Director: Enterprise Risk Management
DEPARTMENT OF WATER AFFAIRS NWRI: CENTRAL OPERATIONS

08:30 Managing Your Water Infrastructure To Ensure Sustainability
• Following the design criteria to ensure sustainability
• A closer look at poor quality infrastructure and how it affects the dams and environment
• An overview of the World Commission On Dams (WCD) to avoid building dams with inefficient infrastructure
• Taking a look at transfer schemes, irrigation schemes and hydro schemes

Petrus Venter
Deputy Regional Director: Northwest IWRM & Catchment Strategies
DEPARTMENT OF WATER AFFAIRS

09:15 Evaluating Your Dam In Line With The Dam Safety Act
• Adhering to the key aspects of the Water Act to ensure compliance
• Guaranteeing successful dam safety and preparing for inspections
• Linking continuous maintenance to the safety of your dam
• An overview of dam safety rehabilitation
• Avoiding the removal of illegal sand mining- dam siltation

Petrus Venter
Deputy Regional Director: Northwest IWRM & Catchment Strategies
DEPARTMENT OF WATER AFFAIRS

10:00 Morning Tea & Networking Opportunity

10:30 Integrated Water Resource Management And Catchment Strategies
• Establishing what water resource management and catchment is
• Formulating efficient water resources management
• A closer look at water conservation and demand
• Focusing on surface water and ground water
• Concentrating on more resources specifically for water quality
• A breakdown of the global water partnership
• Legal and regulatory framework for integrated water resource management
• Looking at catchment techniques/modelling
• Developing reservoir sedimentation and operation

Pramod Sinha
Former Civil Engineer, DWA Currently Senior Lecturer
UNISA
Ilunga Masengo
Associate Professor Civil Engineering Department
UNISA

11:30 Designing Slope Geometry & Erosion Protection For Long Term Sustainability Of Earthen Embankments
• Drivers of sustainability of artificial slopes
• History of slope stabilisation
• Impact of climate
• Case study

John Wates
Managing Director
FRASER ALEXANDER

Herman Venter
Technical Manager
FRASER ALEXANDER

12:15 Lunch & Networking Opportunity

13:15 Current Projections Of Future Water Requirements
• Focusing on the increasing dependence and demand on the availability of water
• Guaranteeing the quantity and quality of water produced by each dam
• Developing each policy, strategy and regulation to better the current water situation
• Examining existing water sources and ensuring the construction of new dams where necessary

Mariette Lieffenrink
CEO
FEDERATION FOR A SUSTAINABLE ENVIRONMENT

14:15 Open Forum Discussion

15:00 Chair Closing Remarks – End Of Day One

WHO SHOULD ATTEND?
- Rehabilitation Experts
- Operations Director
- Water Infrastructure Manager
- Dam Maintenance Manager
- Civil Engineer
- Dams Engineer
- Environmental Manager
- Water Engineer
- Water Resources Engineer
- Geotechnical Engineer
- Pipeline Engineer
- Water Waste Manager
- Project Engineer - Dams
- Design Engineer
- Bulk Water Engineer
- Small Dams Engineer
- Dam Safety Engineer
- Water Control Manager
- Water Services Consulting Engineer

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Researched & Developed By:
Intelligence Transfer Centre
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DAY TWO - 31 JULY 2013

08:00 Opening Remarks By Chair
Wongalethu Joxo
Deputy Director: Enterprise Risk Management
DEPARTMENT OF WATER AFFAIRS NWRI: CENTRAL OPERATIONS

08:30 Identifying The Remainder Of Dams That Needs Urgent Rehabilitation
- What is the current status of dam rehabilitation
- Looking at sustainable solutions within the Government rehabilitation plan
- Pinpointing the estimated time for completion of rehabilitation
- Spearheading transformation in the water sector
- Budgeting for rehabilitation
Thulani Mpontshane
Asset Manager
UMGENI WATER

09:15 Dam Management, Operations & Maintenance Of Lesotho Highlands Water Project Dams
- Daily inspection of structures for integrity
- Daily digital monitoring of dams and tunnels for deformations and deflections
- Monthly geodetic survey of dams
- Daily water level and flow records in dams and tunnels
Lithathane Matete
Dam Safety & Surveillance Engineer (Mohale Dam)
LESOTHO HIGHLANDS DEVELOPMENT AUTHORITY
Thabiso Kolane
Dam Safety Technician (Katse Dam)
LESOTHO HIGHLANDS DEVELOPMENT AUTHORITY

10:00 Morning Tea & Networking Opportunity

10:30 Optimisation Of Dams Operations In The SADC Region
- Operating dams as a system (intra & inter basin)
- Meeting different needs including flood management
- Benefit of dams optimisation and synchronisation
- Governance issues in dams optimisation in a transboundary context
Kenneth Msibi
Water Policy & Strategy Expert
SADC SECRETARIAT: DIRECTORATE OF INFRASTRUCTURE & SERVICES, WATER DIVISION

11:15 The Role Of The Cahora Bassa Dam On Attenuation Of Floods Downstream
- The main features of the Cahora Bassa scheme & Zambezi river
- Analysis of effects of Zambezi floods downstream Cahora Bassa
- The role of Cahora Bassa during floods in 2001, 2007 and 2013
- Recommendations for future management of Cahora Bassa during floods
Jose Rodrigues Mapola
Hydrology Specialist
CAHORA BASSA DAM (ZAMBEZI)

12:00 Lunch & Networking Opportunity

13:00 The Full Life Cycle Of Your Dam In Minimising Risk
- An in-depth look at planning, design, construction and operation
- How dam volume affects surrounding areas
- Linking dam experts to one another to ensure the elimination of risks of dams are minimised
- Ensuring that water conservation and demand management is compulsory before any funding is given to Water Security Agencies (WSA)
- Dealing with destructive dams which impact negatively on land
Wongalethu Joxo
Deputy Director: Enterprise Risk Management
DEPARTMENT OF WATER AFFAIRS NWRI: CENTRAL OPERATIONS

14:00 Considering The Importance Of Dam Efficiency For Long-Term Water Security
- Breaking down the need for dams and its uses
- Ensuring efficient dam operations
- Determining need and demand for dams
- A look at long term water security and conservation
- Regulating active leakage management programmes for all dams
Stephen Mallory
Director
IWR WATER RESOURCES
Dr Tendai Sawunyana
Hydrology & Water Resources Expert
IWR WATER RESOURCES

15:00 Open Forum Discussion

15:30 Chair Closing Remarks – End Of Conference

RAVE REVIEWS

“I really enjoyed myself and made contacts as well, I would gladly attend next time.”
Managing Director
MMAKGOGE GROUP

“The presentation by DWA about the dam failure and dams with a safety risk was very informative.”
Deputy Director: Risk Management
DEPARTMENT OF WATER AFFAIRS

Register and pay for 4 delegates and receive the 5th delegate FREE
I acknowledge that I have read, understood and accept the programme and Terms and Conditions (including Payment Terms) and hereby apply for registration on behalf of myself (if a single delegate) or on behalf of the undermentioned organisation which I am duly authorised to represent.

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(where organisation sends delegate/s and is responsible for payment of conference/course fee*)

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**PRICING**

**STANDARD PACKAGE:**

R7999 Excl. VAT

**EARLY BIRD:**

R6999 EXCL. VAT

Early Bird Register before 31 May 2013

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**EASY PAYMENT METHODS: DIRECT DEPOSIT OR CHEQUE:**

NEDBANK, INTELLIGENCE TRANSFER CENTRE, BRANCH: SANDOWN, BRANCH CODE: 193305, ACCOUNT NUMBER: 1933207779

IN ORDER TO SECURE YOUR REGISTRATION, PAYMENT IS DUE IN FULL UPON RECEIPT OF INVOICE.

Confirmation - Your registration will only be confirmed until such time as payment is received and may be subject to cancellation.

Right of Admission – Intelligence Transfer Centre reserves the right to refuse admission to the training course where evidence of full payment cannot be shown. Delegate Substitutions – Delegate substitutions are welcomed at any time and do not incur any additional charges. Please notify us in writing of any such changes.

Delegate Cancellations:

- For any cancellations received 20 working days before the start of a training course, Intelligence Transfer Centre will issue a 100% credit for the value paid to be used for up to one year from the date of issue for any future INTELLIGENCE TRANSFER CENTRE training course.
- For any cancellations received less than 20 working days before the date of the training course, the full fee will be payable and no refunds or credit notes will be given.
- If a registered delegate does not cancel and fails to attend the training course, this will be treated as a cancellation and no refund or credit note will be issued.

Delegate substitutions are welcome - Please notify us 5 days before the event.

ITC Substitutions and Cancellations:

- Speakers and topics are confirmed at the time of publishing of the programme, but ITC reserves the right to substitute, alter or cancel advertised speakers and/or topics in appropriate circumstances (and will give notice to such substitutions or alterations via email prior to the conference as soon as possible).

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