

# Non-Revenue Water & Leak Detection Master Class 2018

“managing water loss through the use of technology”



24th - 25th  
May 2018

Organised by



Johannesburg  
Focus Rooms, The Core, Sunninghill  
Sandton  
2 CPD Points

FOR BOOKINGS AND MORE INFO

PHONE: +27- 11- 048 2976 | 011 075 3461 |

FAX: +27- 865 -524 -601 EMAIL: [register@meanwood.co.za](mailto:register@meanwood.co.za)

© Meanwood SBS



[www.meanwood.co.za](http://www.meanwood.co.za)

## "managing water through the use of technology"

**MASTERCLASS Overview**

An estimated 37% of South Africa's water supply is lost to leaks annually. This is comparable to losing 8 dams of water, the size of Hartebeespoort Dam every year. Recently Johannesburg was hit by the biggest leak in its history along its mainline, the second-largest supplying Johannesburg, in areas around and surrounding Sandton. Restoration and repairs cost the city around R500 000 in just a day, not the mention revenue lost due to non-revenue water lost during clearing and draining of pipes.

In August 2015, the Department of Water and Sanitation (DWS) launched a "War on Leaks" program, in collaboration with Rand Water, thus recruiting more than 15000 youths across the country over a period of 5 years, to proactively challenge and minimize water losses in the country. Has the project been a success so far? Have we exhausted all possible means of minimising water losses? Are innovative tools being used to reduce water losses and speed up detection and repair processes? Is water being managed properly? Have we met our set goals? With persistent drought and climate change across the continent we cannot afford to waste more water.

This 2 day Master Class, broken down to a 1-day panel of speakers and a 1-day workshop on Leak Detection, seeks to explore and address all the above-mentioned questions and further introduce delegates to the latest technologies in water leak detection.

**Masterclass Highlights**

- How utilities can economically reduce non-revenue water
  - Water Audits
  - Low cost Sensors
  - Asset Management
- Leakage & Customer Demand
- Case Study-Tshwane Water Loss Reduction Project
  - Smart Metering
- Innovation & Technology
- 1 day Workshop on Leak Detection
  - Policy, Legislation & Regulation
- Case Study – War on Leaks Project
  - Data Analytics
  - Non-Revenue Water Management

**Masterclass Highlight****Malcom Farley**

Malcolm has more than 45 years of experience of working with water supply and distribution networks worldwide

Workshop  
**Impacting Your Non-Revenue Water Through Leak Detection**

The workshop will describe the steps a water utility can take to economically reduce non-revenue water in a water distribution system.

**Tim Waldron**

former CEO of a water corporation, and a Director and past Chair of the IWAs Water Loss Specialist group for 6 years

Workshop –  
**Effective Water Loss Management**

**Dear Delegate,**

It is a pleasure that, on behalf of Meanwood Business Solutions, we invite you to our Water Loss and Leak Detection Master Class 2018. The increase in population, the changing of the urban landscape, the mushrooming of informal settlements and the increase in urban migration has led to an increase in water demand. This, as a result has made it difficult for authorities to maintain infrastructure and keep up with water leaks.

As of June 2017, Johannesburg Water's NRW losses stood at 35.3%, against a set target of 32%. This statistic shows that we still have a long way to go, to reduce and minimise water losses. This 2-day Master Class will delve on policy, legislation & regulation; it will also look into innovation & technology, data analytics, smart metering, bulk pipeline assessment, leak detection and non-revenue water management. Water loss reduction case studies will also be used at this Master Class.

We are proud to be hosting this Master Class and look forward to warmly welcoming you at this informative and refreshing event.

Kind Regards,

*Spinola Dube*

spinola@meanwood.co.za | Research Project Manager

**About Meanwood SBS**

We provide high-quality business conferences, seminars and skills-building workshops that adds value in terms of knowledge and skill. The aim is to provide extremely good value for the time and money clients have invested. Our events are thoroughly researched, practical and case study-related, ensuring clients are empowered with the latest information as well as providing superb networking opportunities with leading business colleagues and executives.

**Want to Sponsor or Exhibit ?**

EXPOSE YOUR BRAND TO SENIOR-LEVEL DECISION MAKERS!

Various sponsorship & exhibition packages available. This is your opportunity to engage with senior-level decision makers.

For more information, contact Mark | Company Group Finance Dept.

+27 11 075 3461

[admin@meanwood.co.za](mailto:admin@meanwood.co.za)

**Who Should attend ?**

This program is designed for;

- Supervisors
- Operators
- Technicians
- Operations Managers: Loss Control
- Consultants
- Non-Revenue Water Officers
- Water Utilities
- Asset Managers
- Facilities Managers
- Plumbers
- Data Analysts / Capturers
- Municipality Water Heads
- Department of Water Affairs
- Heads of Infrastructure
- MMC's for Environment & Infrastructure
- Product Innovation & Development
- Water Management Advisors
- Water Agents
- Water Institutes & Organizations
- Contractors
- Project Managers
- Planning Managers/Engineers
- Asset Modelling & Design
- Clean Water Modelling Engineering
- Water Utilisation Engineers
- Managers:Water Demand
- Artisans
- Academia
- Media (Print & Digital)

## Day 1 | Non-Revenue Water & Leak Detection

|               |   |   |
|---------------|---|---|
| 08:00 – 08:30 | Registrations and Arrival Tea   |   |
| 08:30 – 08:35 | Welcome Remarks by Organisers   |   |
| 08:35 – 08:40 | Welcome Remarks by Chairperson  |   |
| 09:00 – 10:00 | <b>Bulk Pipeline Assessment &amp; Leak Detection</b><br><b>Presenter: Kobus Prinsloo</b><br><b>Director,</b><br><b>SSIS Pipeline Services</b>   |    |
| 10:00 -10:30  | Networking over Tea/Coffee  |   |
| 10:30 – 11:10 | <b>Rainwater Harvesting</b><br><b>Presenter: Tommy Hilder</b><br><b>Water &amp; Sanitation,</b><br><b>City of Tshwane</b>   |    |
| 11:14-12:00   | <b>Sustainable Pipeline Materials</b><br>- Benefits of corrugated stainless steel Pipes<br>- South African Success Stories<br><b>Presenter: John Tarboton</b><br><b>Executive Director</b><br><b>SASSDA</b> |    |
| 12:00 – 12:45 | <b>Can Smart Metering Make a Difference?</b><br><i>Presenter: Edwin Sibiya</i><br>CEO,<br><b>Lesira Group</b>   |   |
| 12:45 -13:15  | <b>How Data Analytics can help minimise NRW Losses</b><br><b>Presenter: Eckart Zollner</b><br><b>Head Business Development,</b><br><b>JASCO</b>   |  |
| 13:15 -14:00  | Networking over Lunch   |   |
| 14:00 – 16:30 | Mini Workshop: Effective Water Loss Management  |   |



**Tim Waldron**

former CEO of a water corporation, and a Director and past Chair of the IWAs Water Loss Specialist group for 6 years

**Tim** has over 30 years experience in the water and wastewater industry. Born and educated in England, Tim worked for North West Water U.K. for over 20 years including 10 years as the Water Supply Manager of the City of Preston servicing a population of approximately 1.2 million people. Later, as Divisional Engineer for North West Water, he was responsible for specialist engineering, water demand management and water by-laws.

His specialist knowledge in water demand management led to his secondment as a Technical Advisor for Developing Countries, as the United Nations Technical Representative for the South Pacific for U.N.D.P. and the World Health Organisation. Tim is presently Chief Executive Officer of Wide Bay Water Corporation.

## Day 2 | Non-Revenue Water & Leak Detection

- 08:45 – 08:50 Welcome Remarks by Organiser  
 08:50 – 09:00 Welcome Remarks by Chairperson  
 10:00 – 10:30 Networking over Tea  
 10:30 – 12:00 Workshop Second Session

### Workshop: Impacting Your Non-Revenue Water Through Leak Detection

#### Target Audience

This workshop is designed for hands-on supervisors, operators, technicians and managers

#### Objectives

This workshop will provide critical knowledge in detection, impacting non-revenue water and overall water distribution systems efficiency and effectiveness

#### Facilitator-Malcom Farley



Malcolm has more than 45 years of experience of working with water supply and distribution networks worldwide.

During more than 45 years of working for the international water industry Mr. Farley has gained experience of supply and distribution networks worldwide. He worked for the UK Water Research Centre (WRC) for 25 years, becoming a specialist in water loss management and leakage control. As Contract Manager he managed numerous training and consultancy contracts for WRC both in and outside the UK, specialising in the design and installation of schemes for leakage monitoring and detection. Since becoming an independent consultant in 1994 he has developed expertise in conducting water audits, developing NRW reduction strategies and water loss management policies and improving operation and maintenance practices in countries worldwide. This has included advising policy makers in utilities, government departments and funding agencies in the water and sanitation sector. In 2009 he formed a training company, Watercourse events Ltd, to provide specialist international training on NRW strategy development.

A key feature of Mr. Farley's work is technology transfer, reflected in the many Non-Revenue Water (NRW) audits, needs assessment surveys, awareness workshops, training workshops and conferences he has organised and conducted for water utilities worldwide. Mr. Farley has also written several definitive manuals and books on water loss management, as well as numerous papers and reports. These include:

- A leakage management training manual, for the World Health Organization, in 2001
- 'Losses in Water Distribution Networks' - a best practice manual on measuring, monitoring and controlling losses, for the International Water Association, in 2003
- 'The Manager's NRW Handbook' – a best practice manual for water utility managers in SE Asia, 2008
- The Manager's NRW Handbook for Africa – an adaptation of the Asian manual, 2010
- He is Deputy Chair/Secretary of the International Water Association (IWA) Water Loss Specialist Group, responsible for communicating IWA water loss concepts and recommendations to water utilities worldwide, and a member of the IWA O&M Network. He is a Chartered Engineer (CEng) registered with the UK Engineering Council, a Chartered Water and Environmental Manager (C.WEM), a Fellow of the Chartered Institution of Water and Environmental Management (FCIWEM), and a Chartered Environmentalist (CEnv). He was made an IWA Fellow in 2012.

#### 12:00 -13:00 Leak Detection Practical Demonstration



Presenter :Victor Pindell

#### 13:00 – 14:00 Networking over Lunch

#### 14:00 – 15:00 Afternoon Tea/Coffee

#### 15:00 – 16:00 Workshop Final Session

#### End of Master class

**NRWLD Masterclass 2018 | Emperors Palace | 24th to 25th May 2018**
**REGISTRATION FORM**

 FOR BOOKINGS AND MORE INFO  
 PHONE: +27- 11- 048 2976 | 011 075 3461|

 Attention: Herbert FAX: +27- 865 -524 -601 EMAIL: [register@meanwood.co.za](mailto:register@meanwood.co.za)
**DELEGATE DETAILS**

| # | Full Name | Position | Email | Cell number |
|---|-----------|----------|-------|-------------|
| 1 |           |          |       |             |
| 2 |           |          |       |             |
| 3 |           |          |       |             |
| 4 |           |          |       |             |
| 5 |           |          |       |             |
| 6 |           |          |       |             |
| 7 |           |          |       |             |
| 8 |           |          |       |             |
| 9 |           |          |       |             |

**AUTHORISATION**

 Name : \_\_\_\_\_  
 Position: \_\_\_\_\_  
 Contact Number : \_\_\_\_\_  
 Email : \_\_\_\_\_  
 Signature : \_\_\_\_\_

**Invoice Contact Person Details**

 Name : \_\_\_\_\_  
 Position: \_\_\_\_\_  
 Contact Number : \_\_\_\_\_  
 Email : \_\_\_\_\_

**Company Details**

 Company Name : \_\_\_\_\_  
 Industry : \_\_\_\_\_  
 Physical Address : \_\_\_\_\_  
 PO Box Number : \_\_\_\_\_  
 Company Registration #: \_\_\_\_\_  
 Vat Number : \_\_\_\_\_

**Banking Details**

 Account Holder: **MEANWOOD STRATEGIC BUSINESS SOLUTIONS**  
 Bank Name: **First National Bank(FNB)**  
 Branch: Randburg Branch Code: 254005  
 Account Number: **62518926962**  
 Swift Code: FIRNZAJJ  
 Email : [accounts@meanwood.co.za](mailto:accounts@meanwood.co.za)  
 Reference : Invoice Number

**TERMS & CONDITIONS**

- 1.Payment : Payment must be made prior to attending the CONFERENCE or by the end of the CONFERENCE with proof of payment sent to Meanwood SBS or Collaborating partner Finance Manager otherwise Delegates Will not be allowed to attend . Invoices will be due 5 days after invoice.
- 2.For organisation whose policy is to pay after services are rendered , an order must be emailed/faxed to Meanwood or given to the Conference coordinator upon arrival or on registration.
- 3.Delegate Substitutions - You may substitute your delegate at anytime at least 5 days before the event.
4. Cancellations : For any cancellation received 14 days before the event, Meanwood SBS or Collaborating partner will issue a 100% credit voucher to be used for up to a period of one year from date of issuance.No cancellations will be accepted which is not received within 14 days before the event , neither would there be a refund or credit voucher.If a registered delegate does not cancel or fails to attend the works hop, this will be treated as a cancellation and no refund or credit will be given. Clients will be in voiced for full amount if this procedure is not followed.
- 5.Substitutions , Cancellations and Postponements : Take note that presenters /facilitators and topics were confirmed at the time of publishing the program, non-the less ,due to circumstances beyond our control, Meanwood SBS or Collaborating partner might substitute, alter or cancel present- ers, or topics.Furthermore, Meanwood SBS or Collaborating partner RESERVES the right to alter, or modify the published trainers and /or topics if need be.
- Substitutions or alterations will be updated on our website or notified to our clients**
- 6.Meanwood SBS: In the event of Meanwood SBS or Collaborating partner cancelling the event , delegate payments at the time of Cancellation will be credited to future event . The credit is valid up to one year from the date of issue. In the event Meanwood SBS & Collaborating Partner postpones an event , delegate payments at the time of postponement , will be credited to rescheduled date . However, if the delegate is unable to attend on the scheduled date, the client will receive a 100% credit representing payments made for the future Meanwood SBS or Collaborating partner. This credit will be valid for one year from the date of issue.
- 7.We reserve the right to make amendments to the program when necessary

No refunds will be available for postponement or cancellations.

Indemnity: Meanwood is not responsible for any loss or damage as result of substitution, alteration or cancellation / postponement of an event. Meanwood SBS shall not assume any responsibility what so ever, in the event if the course is cancelled , rescheduled or postponed, due to unforeseen circumstances or fortuitous event , act of God or an y occurrence that renders staging the workshop impossible. This will include fire, war, labour unrest, extreme weather or emergency.