

FSAWWA | WaterRF
Free Tools For Water Loss Control
The Next Generation
 Thursday, May 21, 2015



workshop overview

This workshop explores the next generation of free tools developed with the AWWA best-practices. These tools include the AWWA Water Loss Control Committee's Free Water Audit Software (Version 5.0), and the new WRF/EPA Leakage Component Analysis Model (WRF 4372a).

Attendees of this Workshop will learn fundamentals for water loss accounting and water loss management, which will directly impact the managerial and operational practices with their drinking water supply and distribution systems. Water systems that operate more efficiently, with lower water losses, experience significant financial benefits from reduced treatment and pumping costs, public health and customer service benefits from fewer main breaks and service interruptions, and operational benefits from better managed flows, pressures and control valves.

Discussion begins with auditing basics and mechanics for using the software. Significant improvements from the prior generation (v4.2) for the user will be highlighted, including interface improvements, graphical analyses, linkage to M36, and linkage to the new Leakage Component Analysis Model. The Leakage Component Analysis Model will be presented and demonstrated as a tool for evaluating economically appropriate leakage control strategies.

Come with questions for our speakers on various aspects of real component loss analysis expertise, including:

- Evolution of water quantity management in the U.S.
- Development of Water Loss applied science in the past 20 years
- Drivers that make NRW compelling – Environmental, Financial, Political, Regulatory
- Understanding the IWA/AWWA Water Balance
- Key Concepts & Terminology
- How to Determine Validity and Confidence in the Data
- Use of the new AWWA Free Water Audit Software, Version 5.0
- Example cases to comprehend raw information, and develop appropriate inputs in the AWWA Free Water Audit Software, Version 5.0
- The three different types of leakage: background, reported and unreported.
- How the Leakage Component Analysis Model calculates the three types of leakage and what data is required
- How the Leakage Component Analysis Model builds scenarios around real loss management strategies
- How the Leakage Component Analysis Model identifies what level of leak detection, pressure management, and repair time improvement is cost-effective

speakers

Will Jernigan, P.E. is the Director of Water Efficiency with Cavanaugh, and is an industry expert in Water Loss Control and Revenue Recovery. With 15 years in the industry, Will is currently Vice Chair of the AWWA Loss Control Committee, Chair of its subcommittee for the Free Water Audit Software and Chair for the Georgia Water Loss Control Committee. He has been Project Manager for a groundbreaking statewide water loss technical assistance program in Georgia since 2012, teaching and training 226 water utilities in the state on water efficiency practices. In 2014 Will was named a North American regional expert for the International Water Association Water Loss Specialists Group.

Kate Gasner is the Director of Water & Energy Efficiency with Water Systems Optimization, based in San Francisco. Kate joined WSO in 2011 after pursuing a degree in Environmental Engineering at Yale University and leading a competition program for water startup companies. Now Kate specializes in conducting water audits and assessing economically efficient approaches to reducing water losses. At WSO, Kate manages water loss control programs for some of the largest utilities in the country and is currently involved with water-energy nexus programs under way in California.



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Workshop is scheduled for two consecutive dates:

FSAWWA Region IV/X (May 20 – West-Central Florida) / FSAWWA Region VI/VII (May 21 – South Florida)

when

Thursday, May 21, 2015

8:00 am to 2:30 pm

where

Cooper City Pool & Tennis Center

11600 Stonebridge Parkway

Cooper City, FL 33026

agenda

- 8:00 Registration
- 9:00 Introductions
- 9:10 AWWA M36 Water Audit Methodology – History/Drivers
- 9:30 Fundamentals of the AWWA M36 Water Audit Method
- 10:00 Compiling the AWWA M36 Water Audit: Small Group Exercises
- 12:00 Lunch (Included)
- 12:30 Component Analysis of Real Losses: 3 Types of Leakage
- 1:30 Introduction to Cost Effective Real Loss Management Using the Model
- 2:30 Q&A

to register

Pre-registration Deadline:

Friday, May 8, 2015

FSAWWA Members:

See registration form on next page.

WRF Subscribers:

<http://collab.waterrf.org/workshops/Florida-Real-Loss-Component-Analysis>



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Course# 05100190 | 0.5 CEUs or 5.0 PDHs
Registration Fee: \$65 Members | \$80 Non-Members | \$25 Students

REGISTRATION: Please print LEGIBLY. Make checks payable to FSAWWA. You may also register online by clicking the **Calendar of Events** link at <http://www.fsawwa.org/event/reg6waterlosscontrol>.

Name: _____ AWWA Member ID: _____
Company: _____
Street: _____
City: _____ State: _____ Zip: _____
Phone: _____ Fax: _____
Email: _____
License Number: _____ PE | DS | DW | WW (Circle One)

PAYMENT INFORMATION

Payment Amount: _____ Visa | MC | Discover | AmEx (Circle One)
Name (as it appears on card): _____
Billing Address (if different): _____
Credit Card Number: _____ CVV Code: _____
Exp. Date: _____ Signature: _____

PAYMENT INSTRUCTIONS

Mail completed form with payment to:

Donna Metherall
FSAWWA
1300 Ninth Street, Suite B-124
St. Cloud, FL 34769

Fax completed registration form to:

Attn: Donna Metherall
(407) 957-8415

**Please do not send credit card information via email.*

WRF Subscribers can call 303-347-6104, email mdirks@waterrf.org and register through the link <http://collab.waterrf.org/workshops/Florida-Real-Loss-Component-Analysis>

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