

**Agenda for Water Loss Symposium  
presented by the Texas Water Development Board**

**August 22, 2013  
2:30 to 5:00PM**

**Stephen F. Austin Building, First Floor, Rm 170  
Austin, TX**

The presenters include international experts in water loss, Ms. Kate Gasner and Mr. Reinhard Strum, both with Water Systems Optimization, Inc. and Mr. Andrew Chastain-Howley with Black & Veatch.

The topics will address the process and benefits of a water loss audit, strategies for reducing loss, an overview of water loss in Texas, and a look at national data initiatives. With the on-going drought in Texas, newly required water loss audits, and upcoming revisions to water conservation plans, water suppliers, planners, consultants and policy makers should find this symposium timely and beneficial.

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Program

- Welcome and Overview - Dr. Robert Mace
- Water Balance 101: the Process and Benefits of a Water Audit - Ms. Kate Gasner – WSO
- Economically Efficient Water Loss Control: Strategies for Reducing Losses - Mr. Reinhard Strum - WSO
- Texas Water Audit Data: the state of the State - Mr. Andrew Chastain-Howley – Black & Veatch
- National Water Audit Data Initiatives: What Else is Going on - Mr. Andrew Chastain-Howley – Black & Veatch
- Discussion & Questions

## **Speaker Bios for Water Loss Symposium**

Robert Mace is Interim Executive Administrator at the Texas Water Development Board. Dr. Mace joined the Texas Water Development Board in 1999 to manage the Groundwater Availability Modeling Program. Over the next nine years, he rose from a unit leader to director for the Groundwater Resources Division to a Deputy Executive Administrator to lead the Water Science & Conservation program area for the agency. Prior to joining the Texas Water Development Board, Dr. Mace worked eight years at the Bureau of Economic Geology at The University of Texas at Austin as a hydrologist and research scientist. Dr. Mace has a B.S. in Geophysics and an M.S. in Hydrology from the New Mexico Institute of Mining and Technology and a Ph.D. in Hydrogeology from The University of Texas at Austin.

Kate Gasner is a Project Manager at Water Systems Optimization, Inc. in San Francisco, CA. Kate joined WSO in 2011 after pursuing a degree in Environmental Engineering at Yale University and leading a competition program for water startup companies. At WSO, Kate manages water loss control programs for some of the largest utilities in the country.

Reinhard Sturm is a water loss management expert currently in charge of WSO's operations in NA. He has worked on water loss management projects around the world, and for the past ten years he has focused his work on North America, where he managed some of the biggest water loss management projects in the United States. He was the Co-Principle Investigator and lead author for the AwwaRF research study "Leakage Management Technologies" and is currently the Principle Investigator for the WaterRF4372 study. Reinhard is also co-author of the McGraw Hill text book – "Water Loss Control".

Andrew Chastain-Howley is a director in Black and Veatch's management consulting business and is based in Fort Worth. He has 23 years professional experience which includes work in the Middle East, Europe, Australia, North America and Africa, and for numerous government agencies, consultants and private organizations. Mr. Chastain-Howley has worked on water loss and water conservation programs in Texas for the last 12 years. He co-authored the Water Loss Audit Manual for Texas Utilities in 2008 and has been heavily involved in water auditing and loss control programs in the state. As chairman of the American Water Works Association's (AWWA) Water Loss Control Audit Software Subcommittee, Mr. Chastain-Howley has also managed the development of AWWA's free water audit software since its inception in 2006. This software is currently used by hundreds of utilities and a number of government agencies across North America.