

# **WATER SYSTEM AUDITS AND WATER LOSS CONTROL WORKSHOP**

**April 13, 2011**

**Rutgers EcoComplex, Bordentown NJ**

## **PRESENTER BIOGRAPHIES**

### **BRENNAN KELLY, P.E.**

Mr. Kelly has over 15 years of experience in the drinking water industry. In addition to providing engineering design and capital project management duties, he is the Water Loss Manager for Aqua-Pennsylvania, tracking over a 150 water systems.

He holds a BS in Mechanical Engineering from Villanova University, a MS in Environmental Engineering from Drexel University, and an MBA from Villanova University. He is a registered professional engineer in Pennsylvania, Maryland, and California.

### **GEORGE KUNKEL, P.E.**

Mr. Kunkel has worked for the Philadelphia Water Department for the past 30 years and has chaired the city's Water Accountability Committee for the past 17 years. He is active in the American Water Works Association, having served as a trustee in the Distribution & Plant Operations Division and chair of the Water Loss Control Committee. He has been involved in a number of water loss projects in AWWA and the Water Research Foundation, and has authored numerous publications on water loss control. Mr. Kunkel is a member of the Water Loss Specialist Group of the International Water Association and the recipient of the 2010 Water Star Award from the Alliance for Water Efficiency.

He holds BS and MS degrees in Civil Engineering from Pennsylvania State University and Drexel University, respectively. He is a registered professional engineer in Pennsylvania and Delaware and is a certified class A water system operator in Pennsylvania.

### **KEN NAJJAR, Ph.D., P.E**

Dr. Najjar is the Manager of the Planning & Information Technology Branch of the Delaware River Basin Commission. Dr. Najjar earned a Bachelor's of Engineering in Civil Engineering from City College of New York, a Science Master's in Environmental Engineering from M.I.T., and a Ph.D. in Environmental Science from Rutgers University

Dr. Najjar is a licensed Professional Engineer in New Jersey and Pennsylvania. He has worked in the environmental field for over 30 years and has expertise in the areas of surface and ground water hydrology, water supply, water quality, stormwater management, wetlands protection, discharge permitting, environmental site assessment, stream ecology, hazardous waste characterization and remediation. Currently, Dr. Najjar is Manager of the Planning and Information Technology Branch of the Delaware River Basin Commission, where he is responsible for comprehensive planning for the 13,500 sq. mi. river basin, watershed planning, water quality evaluation and management, Special Protection Waters anti-degradation program, non-point source and stormwater management, water supply and demand studies, sustainability

practices, water conservation, database management, information systems, regulatory programs, and public education and outreach.

In addition, Dr. Najjar is an Adjunct Professor at Villanova University and Rider University, where he teaches Civil/Environmental Engineering and Geological, Environmental and Marine Sciences. Dr. Najjar has regularly published papers and articles in journals and regularly presents at environmental conferences. In April 2005, he received the *Water Resources Association 2005 Government Award* for his leadership in the planning and development of the 30-year comprehensive *Water Resources Plan for the Delaware River Basin*.

### **DAVID SAYERS**

David Sayers graduated from the University of Hertfordshire, UK in 1997 with a BSc (Hons) in Environmental Sciences. He has worked for Thames Water Utilities Ltd as a research and development scientist helping to develop water treatment technologies. David has worked as a Water Analyst for the Environment Agency for England and Wales in the National Centre for Water Demand Management. David has worked on water issues in Japan, Germany and the Netherlands and since 2001 has worked for the Delaware River Basin Commission. David held the position of Water Resources Analyst where he specialized in water use assessments, data management and conservation issues. In 2008, David became the supervisor of the Commission's Information Technology and Water Use Section.

### **RUSSELL G. TITUS**

Mr. Titus is an Operations Supervisor for New Jersey American Water. He is the lead for Water Loss Management (WLM) for American Water's New Jersey Operations overseeing systems ranging in size from more than 200,000 to less than 100 connections. He is also a key member of American Water's Non-Revenue Water Strategy team and has developed the WLM operations for California American Water. He has over 13 years of experience in the drinking water industry. He is responsible for the day-to-day activities of NJAW's proactive and reactive leakage teams and the development and implementation of short and long term water loss reduction strategies. He also develops and maintains annual water audits for numerous NJAW water systems.

Mr. Titus is regularly engaged in Water Research Foundation projects dealing with water loss equipment assessment and training. An active member of AWWA, Mr. Titus is the Secretary of the AWWA Water Loss Control Committee and sits on numerous subcommittees. He provided assistance and commentary during the rewriting of the Third Edition of the AWWA's Manual 36, "Water Audits and Loss Control Programs." He has presented WLM programs at many AWWA and other industry venues.

Mr. Titus holds a BS and an MA in Geophysical Sciences from Montclair State University and is a Rutgers certified freshwater wetland delineator. He has previous experience in civil engineering as a designer, specializing in environmental permitting, stormwater management, land surveying and subsurface wastewater disposal systems.