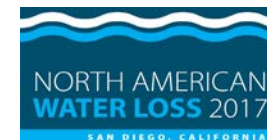


2017 NORTH AMERICAN WATER LOSS CONFERENCE - SPEAKER BIOGRAPHIES
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Andrews, Lucy	lucy.andrews@wsoglobal.com	As a project manager at WSO, Lucy works with water agencies across the country to evaluate and combat water loss. Recently, Lucy co-authored Water Research Foundation projects 4372B, 4639A, and 4639B, which focused on water audit analysis and validation. Lucy also spearheads a pioneering water loss control workgroup in Orange County and serves as a water audit validator in California's Water Loss Technical Assistance Program.
Barnes, Stacy	sbarnes@cwwga.org	Stacy serves as the Special Projects Manager for the Columbus Water Works responsible for multiple projects and programs including asset management, water loss control activities, and customer advocacy. He has over forty four years of experience in the water and wastewater industry.
Berg, Joe	jberg@mwdoc.com	Joe Berg is the Director of Water Use Efficiency for the Municipal Water District of Orange County (MWDOC), a wholesale water provider to 28 retail water agencies throughout Orange County. Over the last 26 years Joe has developed, implemented and evaluated a variety of urban water use efficiency programs in Orange County. Joe graduated from San Diego State University in 1991 with a Bachelors degree in Resource and Environmental Geography.
Black, Julie	JABlack@aquaamerica.com	Julie Black is a project engineer at Aqua America in Bryn Mawr, Pennsylvania specializing in hydraulic modeling. Julie is the current chair of Aqua America's Water Loss One Company Initiative. Prior to joining Aqua in 2015, Julie was a staff engineer at Whitman Requardt and Associates. Julie received a Bachelor of Science in Environmental Systems Engineering from the Pennsylvania State University in 2012 and is a registered Professional Engineer in the state of Delaware.
Blackwell, Drew	drew.blackwell@cavanaughhsolutions.com	Drew Blackwell is the Non-Revenue Water Program Manager at Cavanaugh. Drew has more than 12 years of experience in water resource management, holds a degree from the University of North Carolina at Wilmington in Environmental Studies, and has a passion for working with state and regional agencies to identify their needs in water loss control. Mr. Blackwell has facilitated Water Loss programs in 10 states.
Boyle, Christine	christine@valorwater.com	Dr. Christine Boyle is the founder and CEO of Valor Water Analytics. Her work focusses on developing decision support software that achieves both resource and financial sustainability goals for utilities. She received a doctorate in water resource planning in 2011 and "spun" Valor Water out of her thesis work at UNC. She is current chair of the Cal-Nevada American Water Works Association Utility Management Division and a water policy advisor for the World Bank.
Brook, Kevin	kevin.brook@primayer.co.uk	Kevin has more than 15 years experience of working as an Account & Sales Manager within the Leak Detection & Data Logging Industry. Prior to joining Primayer, Kevin worked at Guttermann, Spectrascan and was also a Project Manager at H2O Operations / RPS.
Buckner, Brandon	BBuckner@ashevillenc.gov	Brandon Buckner is the Meter Services Division Manager for the City of Asheville Water Resources. Prior to this Brandon served as the Operator Responsible in Charge for Backflow/Cross-Connection Division with the City. Brandon's leadership has been essential to Asheville's NRW success, as he has served as Co-Chair to the NRW Program since its inception in 2012.
Burgers, Kevin	kevin.burgers@wso.us	Kevin Burgers is a project engineer at Water Systems Optimization. Kevin has 6 years of experience in testing and analysis of water distribution systems and has been responsible for running over 300 DMA measurements in Nashville, TN. Kevin has also been responsible for preparing AWWA water audits, component analysis of real losses, source meter tests, and customer meter profiling. Kevin is a registered Professional Engineer in Tennessee, Florida, Texas, and Hawaii.

Campbell, Reid	reid.campbell@halifaxwater.com	Reid Campbell is the Director of Water Services at Halifax Water in Nova Scotia. He is responsible for strategic direction and leadership of the Water Services department which operates the municipal water supply system serving 350,000 in the Halifax metropolitan area, as well providing company-wide SCADA and process control services. In addition to source water protection, water quality management, water supply plant operations, transmission and distribution operations and technical services, the Water Services department leads Halifax Water's water loss control programs, recognized as being one of the most advanced in North America which has been recognized in two recent articles in Journal AWWA.
Cavanaugh, Steve	steve.cavanaugh@cavanaugholutions.com	A creative visionary with an unshakeable dedication to environmental stewardship and preservation, Steve Cavanaugh is CEO and Director of Innovation at Cavanaugh & Associates. For two decades, Steve has worked to develop innovative environmental solutions, both nationally and abroad for some of today's most challenging issues. Steve is best known as an expert in the field of Water Loss Control and Utility Revenue Recovery, and for his nationwide efforts in innovative water efficiency training.
Chastain-Howley, Andrew	chastain-howleya@bv.com	Andrew Chastain-Howley manages the Smart Integrated Infrastructure Group for Black & Veatch's Water Division. He has 26 years of experience in the field of data management, non-revenue water reduction, and water system auditing and economics. Andrew has worked across North America, the Middle East, Europe, and Australia for numerous government agencies and private entities.
Christen, Neal	nchristen@cityofsantacruz.com	During his tenure at the City of Santa Cruz Water Department Neal Christensen has had the unique opportunity to gain experience working in various sections such as: Conservation, Distribution and Engineering. Gaining valuable experience while developing working relationships throughout the Water Department has proved to be an integral component to the success in leading of a water loss control program. Neal will be sharing some of his experiences and lessons learned from transitioning our former annual water audit procedures to an enhanced team approach of engaging water loss and ultimately, achieving compliance with new State requirements.
Cook, Brenna	bcook@ashevillenc.gov	Brenna Cook has 17 years of experience in Drinking Water and Waste Water Treatment, and has worked for the City of Asheville, NC for 14 years. She has served the City as an operator, lab technician, and lab supervisor. She holds an A-Surface Water Treatment, Grade 1 Physical /Chemical and Cross Connection Licenses. Brenna has been responsible for NRW data collection for past 12 years for City of Asheville.
Davis, Steve	steve.davis@meteringtechnologyconsultants.com	Mr. Davis has almost five decades of experience in potable water system planning, modeling, design, and research. He has managed utility projects involving water meter specifications and bidding evaluation, AMR and AMI planning and economics, water system auditing, and economics of meter replacement; water use efficiency master plans; and capital improvements planning. Mr. Davis is Past Chair of the AWWA Customer Metering Practices Committee and is chair of the Apparent Loss Subcommittee of WLCC.
Deaver, Austin	austin.deaver@matchpointinc.us	Austin Deaver is the Project manager and Support services technician for Matchpoint Inc. in their west coast market. Mr. Deaver has worked with water municipalities and in other areas of the water industry for over 5 years. He has extensive experience in leak detection methodology and with utilizing various types of equipment within the industry, and has also worked closely with many large water systems throughout the US on the installation and implementation of district metered areas and the data they provide.
Dexel, Mike	michael.dexel@doh.wa.gov	Mike Dexel has 15 years expertise in water resources including water rights permitting, policy development and compliance for the WA State Water Resources Program. As Policy Lead for the WA Department of Health, he is the senior planner on water resources management and policy issues affecting public water supplies and is the program manager for the state regulatory Water Use Efficiency Program. Mike graduated from the University of Washington with a Bachelor's of Science degree.
Dickinson, Mary Ann	maryann@a4we.org	Mary Ann Dickinson is the President and CEO of the Alliance for Water Efficiency, a non-profit organization dedicated to promoting the efficient and sustainable use of water in the United States and Canada. Based in Chicago, the Alliance works with over 400 water utilities, water conservation professionals in business and industry, planners, regulators, and consumers. In 2014, the Alliance won the U.S. Water Prize in the non-profit category for its work.
Doherty, Sarah	sdoherty@olatheks.org	Sarah K. Doherty is the Financial & Asset Manager for Public Works in Olathe. She has over 20 years of experience in public sector finance, budget and asset management. She has been with Olathe since 2001. She received her Bachelors in Public Administration from Washburn University and is currently working on her MPA at the University of Kansas.

Duccini, David	david.duccini@suez.com	David completed his education in Civil Engineering at the University of Florence in 1985. He is currently the Manager of the Distribution Technical Centre, the excellence centre of Suez for Water Distribution Systems in which new approaches and technologies are developed for advanced network management. David was posted to CIRSEE after a large international experience in management and operation of water networks. In his 25 years of tenure, he has worked in eight different countries. He started his career in Italy as an operational engineer.
Dugan, Peter	peter.dugan@ladwp.com	Mr. Dugan has worked for the Los Angeles Department of Water and Power since 2013, working on long-term water supply planning, conservation regulatory issues, and water loss control. Mr. Dugan holds a bachelors degree in Civil Engineering from the University of California, Irvine, and a masters degree from California State University, Long Beach.
Dunning, James	james.dunning@syrix.com	With more than 20 years' experience in the utility sector, James joined Syrix as CEO in 2010. A lawyer by training, James has significant experience in senior positions in the corporate utility sphere, as well as in successfully leading smaller utility-related businesses through significant growth. Now at Syrix, James continues to drive the business's growth as a leading provider of intelligent pipeline monitoring solutions.
Fantozzi, Marco	marco.fantozzi@email.it	Marco Fantozzi is a leading expert with over 29 years international experience in all aspects of Non-Revenue Water reduction work. He is Managing Director of Studio Marco Fantozzi, and partner of the LeaksSuite network. Marco is an IWA Fellow and one of the four IWA water loss regional representatives for Europe. Marco was a member of the drafting group which in 2014 delivered the EU Reference Document: Good Practices on Leakage Management.
Friedman, Julie	JFriedman@cityofsacramento.org	Julie Friedman is Environmental Services Manager for the City of Sacramento Department of Utilities. She manages the City's Water Loss Control and the District Metered Area Programs. Her career in environmental management and water resources spans 25 years. She is a graduate of the APWA Public Works Institute, and serves on the Sacramento APWA Integrated Water Resources Committee, and several AWWA Committees aiding in Water Conservation and Water Loss Control programs.
Fujii, Neal	neal.d.fujii@hawaii.gov	Neal Fujii works for the Commission on Water Resource Management in the Hawaii Department of Land and Natural Resources as the State Drought and Water Conservation Coordinator. He received a BA in meteorology from the University of Hawaii Manoa. Current projects include implementation of the Hawaii Water Conservation Plan, statewide water audit program, and a water-energy nexus study.
Gasner, Kate	kate.gasner@wsoglobal.com	Kate Gasner is the Director of Water & Energy Efficiency 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 directs water loss control programs for utilities throughout the country and is a lead on the Project Management Team for the statewide Level 1 Validation work underway in California.
Gilroy, John	JPGilroy@OLATHEKS.org	John is the Water Operations Manager at the Olathe, Kansas, Water Treatment Plant. John has a BS degree in Chemical Engineering from the University of Nebraska, 12 years of experience in the drinking water industry and is a registered Class IV Water Treatment Operator in the State of Kansas. John currently manages 2 Operations Supervisors and 16 full-time operators on 5 shifts. Prior to his current role John served as a Process Engineer and Project Manager for the City of Olathe.
Gomberg, Max		Max Gomberg is the water conservation and climate change manager at the State Water Resources Control Board. He led the development of California's emergency water conservation regulations and climate change policies across the water sector. Max currently directs implementation of legislation on water affordability and water loss control. Previously, he was a senior analyst for the Office of Ratepayer Advocates at the California Public Utilities Commission where he worked on a range of water and energy proceedings. Mr. Gomberg holds a Masters degree in Public Policy from UCLA and a BA in Environmental Studies from the University of Chicago.
Grevatt, Peter		Peter Grevatt, Ph.D is the Director of the Office of Groundwater and Drinking Water at the United States Environmental Protection Agency. Prior to joining the OFGWDW in October, 2012, Peter served as the Director of the Office of Children's Health Protection and served as the Senior Advisor to EPA's Administrator for Children's Environmental Health. Peter has held leadership roles in EPA's national hazardous waste and water quality programs. Peter received his M.S. and Ph.D degrees in Basic Medical Science from New York University Medical Center and earned his Bachelor's Degree in Biology from Earlham College.

Gunn, Jonathan	jonathan.g.gunn@jci.com	Jonathan Gunn serves as a project development engineer on the Johnson Controls Water Services team and has eight years of experience in the water and wastewater industry. He has developed multiple projects that include utility meters, AMR/AMI systems, and leak detection systems among other utility facets. He holds a bachelor's degree in mechanical engineering from Clarkson University and currently serves on both the AWWA Water Loss Control committee and the AWWA Customer Metering Practices committee.
Hamilton, Stuart	shamilton@hydrotec.ltd.uk	Stuart Hamilton has 14 years' experience with a water company, started up a water loss management company until selling in 2007, and worked as a consultant before buying a technology company which went to the international market before selling. Through his experience, Stuart has worked in over 40 countries in water loss control from training in leakage location to a project director of a \$400m project bid.
Hannah, Craig	Craig.C.Hannah@jci.com	Craig Hannah, P.E., is engineering manager for Johnson Controls' Water Team. He is Chair of the AWWA Customer Metering Practices Committee and serves on both the AWWA Metering Standards and Water Loss Control Committees. He is a co-author of the M22 and M36 Manuals. Craig earned a BS in aerospace engineering from Texas A&M and an MA from Texas Tech. He has 15 years' experiencing developing water loss optimization projects for utilities across the USA.
Hansen, Chuck	chuck@electroscan.com	As former CEO of Hansen Information Technologies, providing asset management systems to +1,000 agencies, Chuck co-developed field inspection standards used by +250 CCTV trucks on the City of Houston SSES Project to assess 5,000 miles of sewers and 90,000 manholes. Chuck sold Hansen in 2007 with +1 million CCTV inspection and +6 million defects. Today, Chuck is CEO at Electro Scan Inc., the leading provider of sewer leak detection and pipeline lining certification technologies.
Himley, Rhonda	rhimley@mnwd.com	Rhonda Himley is a water efficiency analyst with Moulton Niguel Water District in Orange County, CA. She has over 8 years of experience in the water industry, with her focus on conservation and customer service. She was involved in the implementation of water budget based rates and is responsible for data analysis and water use reporting. She has a Bachelor's degree from the University of Illinois and holds a Water Use Efficiency Practitioner certificate.
Himmelberger, Heather	heatherh@unm.edu	Heather Himmelberger is a registered professional engineer with over 30 years of experience working with water and wastewater utilities. She holds a BS in Environmental Engineering from Penn State University, an MS from Johns Hopkins University, and is enrolled in a PhD program in Civil Engineering at UNM. She has provided training and technical assistance services in water auditing, understanding non-revenue water, and addressing water loss issues throughout the U.S., and, in particular, New Mexico.
Hughes, Dave	david.hughes@amwater.com	Dave Hughes is the Water Research Manager in American Water Company's Office of Innovation and Environmental Stewardship in Voorhees, NJ. He is a graduate of Carnegie-Mellon University and a licensed professional engineer. His background includes serving as a public water authority manager, a hydraulic engineer for Aqua America, and an engineering consultant for the UK based Water Research Center. Mr. Hughes is an active participant in Water Research Foundation projects as an investigator and project advisor.
Jacobsen, Pia	piajac@um.dk	Pia Jacobsen is the Manager of Drinking Water Operations at one of Denmark's largest utilities Aarhus Water Ltd. In the Water Technology Alliance, Pia is working diligently to establish a strong network of professionals in the US through which common goals and results can be achieved. At the same time, Pia committed to maintaining close contact with Danish utilities and authorities at the forefront of total water cycle solutions.
Jernigan, Will	will.jernigan@cavanaugholutions.com	Will Jernigan is with Cavanaugh, and nationally recognized as a leader in Water Loss Management. Will was appointed in 2017 as the United States Expert to an international task force for developing the ISO Water Loss Standards.erves with the American Water Works Association as <ul style="list-style-type: none"> • Chair of the Free Water Audit Software • Secretary of the Water Loss Control Committee • Co-Chair of the North American Water Loss Conference • A principal contributing author on the M36 Manual for Water Loss Control, 4th Edition • Trustee with the Distribution & Plant Operations Division

Johnson, David	david.johnson@rezatec.com	David Johnson, Remote Sensing and GIS (BSc Hons), has 12 years' experience in delivering geospatial solutions to complex infrastructure projects. Working as a Principal Consultant at WorleyParsons, David delivered high end solutions to multiple international water, oil and gas megaprojects. Recently he joined Rezatec as Managing Partner, providing decision support tools in fast-advancing field of watershed and asset risk management to water utilities.
Kunkel, George	kunkelwaterefficiency@gmail.com	Mr. Kunkel is Principal of Kunkel Water Efficiency Consulting and has over 37 years of water utility and consulting experience, and led the successful water loss control program in Philadelphia for over 20 years. He is active in the American Water Works Association and served as chair of the Water Loss Control Committee. Mr. Kunkel is currently the chair of the sub-committee that publishes AWWA's M36 guidance manual on water loss control and is a co-author of the AWWA Free Water Audit Software. He was the recipient of the 2010 Water Star Award from the Alliance for Water Efficiency, and the AWWA Peak Performance Award in 2016.
Lausten, Lorrie	lloausten@tcwd.ca.gov	Lorrie has worked at Trabuco Canyon Water District (TCWD) for 4 years and manages Capital Improvement Projects, Development Projects and Operation and Maintenance Improvements for the water, wastewater and recycled water departments. Fairly new to water loss control work, she is also responsible for preparing TCWD's water audits. The highlight of her involvement in this area has been to bring awareness to her Agency on the importance of meter testing and maintenance of control valves in reducing water loss.
Leauber, Chris	cleauber@wwawc.com	Chris Leauber is the chair of the AWWA Water Loss Control Committee, Executive Director of the Water & Wastewater Authority of Wilson County, TN and has 35 years of experience in water loss control. He managed water loss projects performed on hundreds of utilities prior to joining the Authority in 2006 and now manages the overall operations of the Authority and maintains a focus on water loss control within the Authority.
Lewison, Larry	larry.lewison@cavanaughhsolutions.com	Larry Lewison is the Non-Revenue Water Analyst at Cavanaugh. Larry has 15+ years of experience in water system design and technical assistance in water loss control. He holds a degree from the University of Minnesota in Industrial Engineering. Larry's focus and passion are in working with regional agencies and municipalities to identify their needs in water loss control and provide technical assistance based on AWWA M36 methodology to meet those needs through execution, evaluation, and continued monitoring of progress. Mr. Lewison was involved in the facilitation of all Technical Assistance programs for GEFA in Georgia.
Liemberger, Roland	roland.liemberger@miya-water.asia	Roland Liemberger from Vienna, Austria, has worked on water distribution network efficiency, in particular water loss management, for the last 30 years. He has worked in more than 40 different countries, primarily in developing countries. Roland is NRW advisor at Miya, a global water efficiency solution provider. He is a Fellow of the International Water Association where he held different positions. His main interests are water audits and the development of water loss reduction strategies.
Marcus, Felicia		Felicia Marcus is the Chair of the California State Water Resources Board and was appointed by Governor Jerry Brown. The Board manages the State's water and water quality regulation, and it implements the state's water rights laws. California's legislation on water loss management is proving to be a testing ground for validated water audits and setting of water loss targets and Felicia Marcus is at the center of it all. She has been a leader, inside and outside of government, since the 1980's, co-founding Heal the Bay, working for the Los Angeles Board of Public Works, and serving as Regional Administrator of US EPA Region IX under President Bill Clinton.
Marcus, Sofia	sofia.marcus@ladwp.com	Sofia Marcus is the Water Conservation Regulatory Group Supervisor at the Los Angeles Department of Water and Power. Sofia is also serving as Project Manager for LADWP's Water Loss Task Force. Prior to her employment at LADWP, Sofia worked for the Los Angeles Sanitation Watershed Protection Division and was responsible for ensuring stormwater regulatory compliance for the City. Sofia has Bachelor's and Master's Degrees from the University of Southern California in Environmental Engineering.
Martinez, Roy	rmartinez@wachsws.com	Roy Martinez joined Wachs Water Services in May, 2015 as Business Development Manager for the west region. Roy is a 30-year water industry professional with national & international experience in consulting engineering, non-profit research and association management. His roles as designer, project manager, account manager, director, business development executive, and executive management positions have provided him with a thorough understanding of the water industry trends and challenges that face water utilities today.

Mayer, Peter	peter.mayer@waterdm.com	Peter Mayer, Principal and Founder of WaterDM, is a professional engineer and urban water expert who has dedicated his career to advancing the science of water efficiency and demand management. For more than 20 years, Peter's work has focused on urban water management, water use patterns, assessing the impact of water rate structures and metering, evaluating water conservation measures and programs, forecasting future demand with and without conservation, preparing water conservation plans and conducting water supply scenario analysis. Over his career, Peter has worked with hundreds of water utilities and organizations across the US and Canada.
McNulty, Amy	mcnulty@irwd.com	Amy McNulty is the Water Efficiency Manager at the Irvine Ranch Water District. She joined IRWD in 2007 and currently oversees implementation of the Water Efficiency Business Plan including numerous customer incentive programs. She is also engaged in partnership opportunities with local energy providers, and has pioneered many of IRWD's innovative pilot studies and programs.
Merks, Cor	cor.merks@witteveenbos.com	Cor Merks is a senior consultant in the water supply industry and an experienced project manager. Cor has been instrumental in coordinating development of updated European Union reference documents focusing on good practices in the management of leakage from water networks, taking examples from European utilities. Cor has 28 years of experience and has worked with Witteveen+Bos since 2015. He is active with the Water Loss Specialist Group of the International Water Association.
Molli, Kenneth	ken.molli@veolia.com	Ken has nearly 40 years of water industry experience. He has consulted on AMR projects with City of Fresno, CA and Henrico County, VA; managed AMR/metering installation projects for DCWater, Chicago, IL, and Houston; held marketing/BD positions with Badger Meter, and senior positions with Columbus, Ohio Water and Broward County Water & Wastewater. Large meter optimization projects include Los Angeles and New York City. Ken serves on AWWA's Meter Standards, Customer Metering Practices and Illinois Water Efficiency Committees.
Mosburg, Sue	smosburg@sweetwater.org	Sue Mosburg is responsible for risk management, water use efficiency, employee development and school education programs at Sweetwater Authority. She is a member of the AWWA Board of Directors and Chair of the CA-NV AWWA Water Loss Control Committee. She holds a BS in Business Management and AA in Speech Communication.
Murray, Kent	kmurray@technolog.com	Kent Murray has a Bachelor of Engineering Degree in Chemical Engineering from McMaster University in Hamilton, Ontario, Canada. Kent also completed the General Management Program from Harvard University. Prior to joining Technolog Mr. Murray was with Technolog's sister company Neptune Technology Group where he was VP of Marketing and Engineering. Mr. Murray has thirty plus years in the water industry with expertise in flow measurement.
Osann, Ed		Ed Osann is a Senior Policy Analyst with NRDC's Water Program. Ed joined NRDC in 2009 to lead a 7-member team working to improve the efficiency of water use through product efficiency standards, utility incentive programs, and conservation pricing for water and wastewater service. Ed holds a master's degree in Urban and Regional Planning from George Washington University and a BS in International Relations from Georgetown University. Ed is a member of the AWWA Water Loss Control Committee, and contributed to the pre-publication review of the AWWA's Manual M-36, Water Audits and Loss Control Programs, 4th Edition.
Papa, Fabian	f.papa@hydratex.com	Fabian has over 20 years of experience in engineering practice with a focus on urban water systems. He is a principal of HydraTek & Associates and has held the position of Adjunct Professor at the University of Toronto. Based in Toronto, Canada, HydraTek specializes in hydraulics and energy investigations in water and wastewater systems, and is active in the U.S. and internationally.
Parker, Jo	j.parker101@btinternet.com	Jo Parker is a chartered civil engineer with over 40 years of experience, including senior roles with water companies in the United Kingdom and project work in other countries from Afghanistan to Australia. She was awarded the MBE by the Queen of England in 1996 for services to the water industry. Jo is an independent consultant specializing in the management of water mains and piping infrastructure. Her clients include The Mayor of London, UK Water Industry Research, and most of the UK water companies. Jo's hobbies include playing the double bass in jazz bands, tending her herd of pedigree alpacas, and triathlon training!

Powers, Michael	mpowers@rainbowmwd.com	A graduate from University of California, Davis, Michael Powers is a Professional Engineer specializing in water and wastewater conveyance and treatment. He has been working in Engineering for eight years in research, consulting, and now for a public utility. He has experience in design, master planning, project management, and water loss auditing and prevention.
Rice, Daniel	daniel.rice@twdb.texas.gov	Daniel Rice is the Water Loss Program Specialist for Texas Water Development Board's Municipal Conservation Section. His primary tasks include reviewing, researching, and providing technical assistance and education for all things water loss in Texas. He also administers the leak detection and flow meter testing equipment available free for loan to water suppliers in Texas.
Richardson, Bill	brichardson@dep.nyc.gov	Bill Richardson is Manager for Community Water at New York City's Department of Environmental Protection's (DEP). Mr. Richardson oversees NYC's wholesale water customer relationships on projects that include metering, engineering design, backup supply readiness and demand management planning. Bill also manages several other programs involving downstream community stakeholders. He has worked at DEP for twenty years and has an MS in Environmental Science from New Jersey Institute of Technology and BS from Rutgers.
Rogers , Dewi	dewisrl2001@gmail.com	Dewi Rogers is a hydraulic engineer and an expert in mathematical modelling of water supply and distribution networks and their application for water loss control. Having been involved in developing the methodology whilst working for the UK Water Research Centre, for the last 20 years he has been applying his expertise through his consultancy companies based in Italy and the UK. He has 30 years experience and worked on numerous prestigious water loss projects in 40 countries across the world.
Rovanpera, Scott	srovanpera@ci.benicia.ca.us	Scott holds a BS degree in Water Science from UC Davis, 1976. His experience spans from a Lab Tech and Chemist at WWTPs from 1976-1980 the WTP Operator and WQ Supervisor at Contra Costa Water District, 1980-1996, and has been the WTP Superintendent for the City of Benicia, since 1997. Scott also holds a T5/D3 SWRCB operator certification.
Rye, Seth	srye@ryeengineering.com	Seth Rye is the owner and senior engineer of Rye Engineering. He is a Tennessee Registered Professional Engineer, a TDEC Licensed Water Distribution Operator II, and a Licensed Attorney for the State of Tennessee. He received a BS in Agricultural Engineering, and Master of Science in Biosystems Engineering from the University of Tennessee. He also graduated from Nashville School of Law in 2006. After working in the Office of the City Engineer in Clarksville, TN and serving as the Water Division Manager for the Clarksville Gas & Water Department from, Mr. Rye founded Rye Engineering PLC, which specializes in Water Loss Management, Leak Detection, Potable Water System Engineering and System Operation.
Sayers, David	sayersda@bv.com	David has 20 years of experience in the fields of water use analyses, water resources management and water system audits. He has experience working in the United Kingdom and the United States and has worked for a water utility, a regulatory agency, and now works as a consultant. David is an active member of the AWWA Water Loss Control Committee and is the lead developer of the AWWA Free Water Audit Software and Compiler tool.
Schlenger, Don	don@donschlenger.com	Don Schlenger is President at Don Schlenger and Associates, LLC. He is a consultant and expert in advanced metering infrastructure (AMI), particularly for water utilities, and is experienced in technology procurement and implementation, customer service enhancement, and business process design. He has helped numerous utilities across North America successfully deploy more than five million AMR/AMI endpoints (total capital investment >\$800 million). Don has also served as a member of the American Water Works Technical and Educational Council and has chaired AWWA's Customer Service and Customer Metering Practices Committees.
Schmidt, Denise	denise.schmidt@wisconsin.gov	Denise Schmidt is Water Policy Advisor for the Public Service Commission of Wisconsin, where she works on issues related to the agency's water regulatory programs. She has over twenty years' experience working on utility financial management and resource planning issues in Wisconsin and other states. Denise holds a Bachelor of Science degree in Environmental Health Sciences from Purdue University and a Master's degree in Public Policy from Harvard's Kennedy School of Government.

Sharkey, Carl	carl.sharkey@puretechltd.com	With more than 20 years of experience in the water industry, Carl has been heavily involved with the evolution of water loss technologies and approaches. As a current member of both the CA-NV and National AWWA Water Loss Control Committees, he is acutely aware of the role water loss control within the overall health of a water utility
Shriver, Patrick	patrick.shriver@saws.org	Patrick Shriver is a Water Resources professional for the San Antonio Water System (SAWS). He is currently leading the charge on Non-Revenue Water (NRW) for one of the largest public water utilities in the country during a period of exceptional growth. Patrick has provided 20 years of public service and lives in Helotes, Texas a small community N.W. of San Antonio.
Skeens, Brian	brian.skeens@ch2m.com	Mr. Skeens is a Principal Technologist for CH2M. He is currently serving as Global Practice Leader for Conveyance and Storage Master Planning within CH2M. He has over 18 years of experience in water system planning, including water resources, demand forecasting, distribution system modeling, water conservation, and water loss control planning.
Sloan, Ray	Ray.Sloan@bwwb.org	Ray Sloan is the Water Auditor at the Birmingham Water Works Board where he is a member of the Non-Revenue Water team and takes on many roles in water loss control and special projects. He is a member of the AWWA's Water Meter Standards Committee and Subcommittee on Electronic Revenue Meters. Ray holds a degree in Mathematics from the University of Alabama in Birmingham and is working on a Master of Engineering.
Smith, Travis	Travis.Smith@xylem.com	Travis Smith is Director of Smart Water Strategy at Sensus, a Xylem brand. He has 20+ years' experience in the water and wastewater industries including treatment plant design, project management, chemical handling, controls and instrumentation, operations efficiency and communications systems. An active member of AWWA, he currently serves on all the meter standards committees. He also serves on the Residential Fire Sprinkler Project Advisory, Water Loss Control, Apparent Water Loss and Customer Metering Practices committees.
Stuemke, Alan	astuemke@ cudrc.com	Alan Stuemke has 20 years of water utility experience working five states, and he is a registered professional engineer in all of those states. He spent considerable time with subsidiaries of American Water, but is now Engineering Manager at Consolidated Utility District of Rutherford County and is proud to call Murfreesboro, TN home. He received a B.S. degree in Civil Engineering from the University of Illinois in Urbana-Champaign.
Sturm, Reinhard	reinhard.sturm@wso.us	Reinhard Sturm is the CEO of Water Systems Optimization. He has worked on water loss management projects around the world, and for the past thirteen 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 served as Principle Investigator on five Water Research Foundation research studies on water loss control. The most recent study being WRF4639; "Level 1 Water Audit Validation: Guidance Manual (published in 2016). Reinhard is also co-author of the McGraw Hill text book - "Water Loss Control".
Thompson, Todd	todd.thompson@water.ca.gov	Todd Thompson is a Senior Water Resources Engineer at the California Department of Water Resources. Todd has a history of working in the government administration industry in areas such as Water Treatment, Environmental Awareness, Contract Management, Water Resource Management, and Environmental Engineering. He currently serving as DWR's Water Loss Control Program lead. Mr. Thompson holds a Bachelor's degree focused in Environmental Resources Engineering from Humboldt State University.
Thornton, Julian	thornton@terra.com.br	Julian is an international Non-Revenue Water specialist, author and trainer. He has worked for utilities, governments and multi-lateral lending agencies in 34 countries including the United States and Canada. He has been a member of the AWWA Water Loss Control Committee for 27 years and the IWA Water Loss Specialist Group for 16 years.
Tooms, Stephen	steve@invenio-systems.co.uk	Steve Tooms began his career in acoustics research before working for WRc, one of the major UK water consultancy and research organizations. During the 1990's he worked with Stuart Trow in a consultancy company specializing in leakage and pressure management before spending 13 years with Hyder Consulting. Since 2010 Steve has managed his own consultancy company undertaking leakage economics and regulatory audits. Since 2015 Steve and Stuart Trow have been directors of Invenio Systems Ltd, a start up company specializing in new techniques for water loss management.

Trachtman, Gary	Gary.Trachtman@arcadis.com	Gary is a Life Member of AWWA and the American Society of Civil Engineers. In addition to being a member of the Water Loss Control and Customer Metering Practices Committees, Mr. Trachtman is also the Co-Author of the AWWA M36 and M22 Manuals, AWWA White Paper "The State of Water Loss Control in Drinking Water Utilities", and has presented numerous water loss control papers, webinars and workshops, and performed water audits and prepared water loss control plans for water systems ranging between 5,000 and 400,000 accounts.
Van Arsdel, John	john@mesimpson.com	John H. Van Arsdel is Vice President of M.E. Simpson Co., Inc. He has a BA from Valparaiso University. He has 28 years' experience directing projects for water loss, audits and condition assessments. He has presented seminars for over 22 years at several AWWA Section meetings, papers at ACE, WIC. He is a past Chair for the Illinois Section AWWA, Past Chair of the AWWA Water Loss Committee and a George Warren Fuller recipient.
Wagoner, Tory	tory.wagoner@cavanaugholutions.com	Tory is a Principal and Director of Operations at Cavanaugh, a firm dedicated to stewardship of resources in Non-Revenue Water and Bioenergy. Tory earned his Civil Engineering Degree from North Carolina State University, and serves as the lead technical analyst for Cavanaugh's Water Auditing & Loss Control Programs. He speaks nationwide on techniques for attacking water loss, and has trained under Water Efficiency legend, Allan Lambert, and has facilitated water efficiency and water loss workshops in CA-NV, Colorado, New Mexico, North and South Carolina, Utah, and Wisconsin.
Weinstein, Bennett		Bennett Weinstein manages the State of Georgia's water supply program. In this role he oversees agricultural, municipal and industrial withdrawal permitting as well as the state's Clean Water Act section 401 water quality certifications. This work includes coordinating the State's drought response, water conservation and water efficiency activities, including the state's water loss management policies and regulations. He has served as a water policy advisor for both the State's Environmental Protection Division as well as the Atlanta metropolitan area's regional water planning board. Bennett earned his Bachelor's degree in ecology from Michigan State University and his Law degree from Vermont Law School. He is a member of the Environmental Law Section of the Georgia Bar and the Georgia Association of Water Professionals.
Whisner, Amber	awhisner@dallas-ga.gov	Amber Whisner is the Billing Clerk for the City of Dallas, Ga where she has been employed for the last 7 years. Along with the Billing Clerk duties, she is also in charge of the yearly Water Audit and head of the City's Water Loss Control Program. Amber is also the Vice-Chair of the GAWP Water Loss Control Committee in Georgia.
Wong, Reynold	reynold.wong@ladwp.com	Reynold Wong is the newest member of the Water Conservation Regulatory Group at the Los Angeles Department of Water and Power. He is a project engineer with the Water Loss Task Force. Reynold received a Bachelor of Science degree in Civil Engineering at California State University of Los Angeles, and he is currently working on his masters. While attending CSULA he led his team to second place in the ASCE National Geo-Wall competition held at the Geotechnical Frontiers Conference in 2017.
Wrage, Marian	mwrage@rrnm.gov	Marian Wrage heads the Environmental Programs office for the City of Rio Rancho. In this position, Marian manages the Water Conservation Office including water conservation outreach programs, the residential and commercial conservation programs and oversees the systems accounting of water use and water loss. Marian has a BS in Geology from Northern Arizona University. Her prior experience includes 20 years with environmental laboratories as QA/QC officer, senior project manager, and asbestos laboratory manager.
Wyatt, Alan	aswater12@gmail.com	Alan Wyatt is an engineer and manager with over 35 years of experience in technical assistance and training programs in water supply and sanitation, non-revenue water, water efficiency, utility management, operations & maintenance, water resources, climate change, urban environmental management, and renewable energy in the U.S., and 25 countries in sub-Saharan Africa, North Africa / Middle East, Latin America, Asia and Eastern Europe, as well as North America.