

NMRWA 32nd Annual Conference | Class Descriptions

Monday 8:00

OPENING SESSION : Building the Profession

2 credits W/WW

Our 32nd Annual Conference will begin with an open forum to exchange ideas about developing the professionalism of New Mexico's water and wastewater utility personnel. After a round of speakers, the floor will be open for attendees to voice their views and visions about building the future.

Nitrogen & Nutrient Removal in Wastewater Treatment

Ege Richardson - Aegean Consulting LLC

Brooks W Newbry - Water Technology Group

Wastewater / 2 credits WW

In this class basic theory of nitrogen removal will be discussed and governing regulations will be reviewed. Focus will be on nitrification and denitrification principles. The effects of process variables on system performance will also be discussed. Basic knowledge of activated sludge process control and basic math skills are required. Students are asked to bring their own calculators.

Structuring Water Rates

Peter Fant - Souder, Miller & Associates

Management / 2 credits W/WW/BT

Setting rates is a function of water source, water quality, customer base, age of assets and need for replacement, need for expansion, and the intestinal fortitude of the public officials who have to run for office. In this session we will review the items that go in to development of a simple rate structure whose purpose is to recover costs of operations, plan for the future, be fair to all users, and to be evaluated and updated regularly.

Monday 10:30

Chemical Feed – Staying with the Flow

Don Van Veldhuizen - USA BlueBook

Basic Water / 1.5 credits W

Whether your preference is diaphragm or peristaltic, learn about the operation, maintenance and troubleshooting of these workhorses of water treatment. You will also be able to determine which pump(s) will work best for your system and which pump(s) to avoid. Also, we will discuss calculating doses and setting the controls of the equipment.

QA/QC for BODs

Gail Huggins - Albuquerque Bernalillo County Water Utility Authority, Water Quality Laboratory

Wastewater / 1.5 credits WW

This class will present the quality control and quality assurance requirements for Biochemical Oxygen Demand (BOD) analysis. Quality measures serve as a basis for evaluating the integrity of BOD analytical results. The BOD test is one of the most difficult tests to run because there are so many variables that affect the outcome. Class will highlight variables that must be controlled for acceptable test results and address the quality control requirements to support the BOD data, such as sample, equipment, and test quality control. The presentation will also outline BOD and seed correction calculations, including BOD troubleshooting for invalid test results.

Drinking Water Bureau Initiatives

Andy Edmondson - NMED Drinking Water Bureau

Regulation / 1.5 credits W/BT

Is your system dealing with a recent Administrative Order? Is your system out of compliance? Do you know where to go for capacity development assistance? This workshop is designed to offer answers to these questions and

provide an overview of some recent changes to DWB's programs including enforcement, capacity development, and compliance.

Distribution System Vulnerability at Fire Hydrants

Michael A. Kozeliski - Kozeliski Ventures, LLC / Davidson Valve
Advanced Water / 1.5 credits W

This presentation highlights the vulnerability of public drinking water to accidental or intentional contamination via backflow through the fire hydrant. Discussion includes the vulnerability of a distribution system to accidental or intentional contamination, which agents – chemical biological or radiological – could be obtained, and the deadly effects of even a small amount introduced post-treatment via the hydrant. Additional topics are methods and means to mitigate this vulnerability, protection, scenarios to enhance drinking water security, public law mandating mitigation, and system vulnerability modeling by the Department of Defense.

Changes to the New Mexico Audit Act

Evan Blackstone - NM Office of the State Auditor
Board Training / 1.5 credits BT

This session will provide an in-depth discussion and presentation of the changes to the Audit Act that entails State of New Mexico compliance requirements in the tiered system of financial reporting. We will also discuss a number of the procedures the auditor will perform and give guidance on how the auditee can be best prepared for an audit or an agreed-upon procedure. The presentation will be interactive and encourage audience participation, questions and comments at any point during the presentation.

NEPA Compliance for Funding Access

Karl Tonander - Souder, Miller & Associates
Management / 1.5 credits W/WW/BT

While the state of New Mexico does not use a formal environmental review process to access most state funds (such as Water Trust Board and State Appropriations), all funds with federal sources require compliance with the National Environmental Policy Act (NEPA). As State funding sources dry up, planning for projects to move through the NEPA process becomes vital. The talk will assist in identifying the lead agency for a project, what considerations must be made for projects to be NEPA compliant, the critical time path for NEPA, costs of compliance, and the importance of public participation.

Monday 1:30

Chlorination

Don Van Veldhuizen - USA BlueBook
Basic Water / 1.5 credits W/WW

What makes chlorine such a good disinfectant and why it is used so extensively? The session will discuss the advantages and disadvantages of chlorine gas, liquid, and solid and how to determine the best form for your system. You will learn feed techniques, preservation, and safety associated with chlorine.

ORP Process Control Technology

Tony R. Medina - Water Technology Services
Wastewater / 1.5 credits WW

ORP-paced aeration technology can provide cost effective enhanced biological nutrient removal, energy conservation, and other benefits. This class will review the science and real world application of this technology not only as a monitoring parameter but also as a process control parameter. We will explore how activated sludge microorganisms that are utilized to metabolize organic waste also affect the net oxidizing or reducing state (ORP) of a biomass. This technology is easy to retrofit, cost effective and reliable, making it a sustainable and "green" solution for small wastewater utilities.

Waterborne Disease and Environmental Public Health Tracking in New Mexico

Heidi Krapfl and Barbara Malczewska-Toth - NM Department of Health
Regulation / 1.5 credits W

This session will discuss the tracking of environmentally-related diseases in New Mexico that may be associated with exposure to drinking water contaminants. The NM Department of Health's Environmental Public Health Tracking Network will be demonstrated in order to illustrate how selected data can be accessed and displayed. An overview of waterborne contaminants and adverse health outcomes potentially resulting from drinking water exposure will also be provided.

Fluoride and Arsenic Co-Removal Using Electrocoagulation

Andrew Robertson, PE - Souder, Miller & Associates

Advanced Water / 1.5 credits W

A new technology developed in New Mexico, electrocoagulation, promises to remove both arsenic and fluoride contaminants at a lower O&M cost than conventional technologies. Thanks to a grant from the New Mexico Water Innovation Fund, a pilot study has been completed that demonstrates electrocoagulation successfully removes both fluoride and arsenic, with 50% lower O&M cost than activated alumina. The presentation will discuss this new process.

Water Adjudications in New Mexico

Darcy Bushnell - Joe M Stell Ombudsman Program, Utton Center, UNM School of Law

Board Training / 1.5 credits W/BT

A presentation and Q&A on water rights adjudications to discuss what water rights are, prior appropriation, role of Office of the State Engineer, beneficial use, underground basins and adjudicated basins, applying for water rights, transferring water rights, the "use it or lose it" management theory, 40-year water plans, leasing water rights, and reporting.

GIS Basics

Paul Bailey - ESRI: Environmental Systems Research Institute, Inc.

Management / 1.5 credits W/WW/BT

This presentation will discuss the basics of geographic information systems (GIS) and how those tools can be applied in water, wastewater, storm water, and water resources management. Functional areas of asset management, field mobility of data, operational awareness, and system analysis will be discussed.

Monday 3:30

Tanks: Inspection & Water Quality

Joe Manzi - Natgun Corporation

Basic Water / 1.5 credits W

This presentation will discuss the different types of water tanks; inspection of water tanks including requirements and regulations for inspection, how to select a tank inspector, what to inspect and how frequently to inspect; maintenance of water storage tanks including risk assessment, coating selection and budgetary constraints; water quality issues related to storage and how to minimize or eliminate them; and retrofitting existing water tanks to preserve infrastructure, meet changing regulations and improve water quality, safety and security.

Managing H₂S: Odors & Corrosion Control

Rick Allen - BioLynceus, LLC

Wastewater / 1.5 credits WW

A compelling look at how hydrogen sulfide is a growing concern for plant operations and offers conclusive solutions on ways the "problem" can be handled. This session will focus on managing hydrogen sulfide, while looking at the underlying issues of managing Hydrogen Sulfide in collection systems and wastewater plants. Also covered are current solutions and the necessary information that operators need for understanding the overall safety and management of this caustic and corrosive element.

Membrane Filtration: Overview, Testing, Reporting

Angela Cross - NMED Drinking Water Bureau

Regulation / 1.5 credits W

Membrane technology is becoming increasingly common as a treatment solution nationwide and in New Mexico. This presentation includes a review of the technology, how this technology fits into the drinking water regulatory framework, and the testing and reporting requirements.

Think Outside the Trench with Fusible PVC

Susan Pilgram - Underground Solutions, Inc.

Advanced Water / 1.5 credits W/WW

Pipeline rehabilitation and replacement continues to garner increased attention across the country, as most water and wastewater systems are in need of non-intrusive and cost-effective methods to install new infrastructure or rehabilitate aging infrastructure. Now, more than ever, design life and pinched budgets are forcing municipalities and utility operators to explore new and less expensive methods of pipeline rehabilitation and installation of their failing systems. PVC pipe, with its excellent corrosion resistance, favorable tensile strength and broad use in the water and wastewater market is used in horizontal directional drilling (HDD), sliplining and pipe-bursting installations. This presentation will focus on regional projects in New Mexico that utilized the innovative fused-PVC technology in trenchless installations.

Productive Board Meetings

Janice Strand - Janice K. Strand Consultant, Inc.

Board Training / 1.5 credits BT

A participatory workshop you won't want to miss! Gain skill in conducting productive board meetings. Practice presiding skills that move the meeting along, involve participants, and lead to decisions. Productive meetings follow the agenda, include meaningful debate, and result in decisions. Participants who understand and practice basic parliamentary procedure "get business done efficiently and effectively."!! Conduct meetings that people want to attend!

Selecting and Hiring Engineers in New Mexico

Dave Maxwell - Engineers, Inc

Management / 1.5 credits W/WW/BT

This session explains how to select and hire consulting engineers in New Mexico. Topics will include applicable New Mexico Procurement Code requirements and processes, tools and guidelines for writing a Request For Proposals, factors to consider in selection of an engineer, negotiating a contract with an engineer, and how to judge the reasonableness of proposed engineering fees.

Tuesday 8:00

Basic Wastewater Math Review, Part 1

John R. Eckley - City of Bloomfield

Wastewater / 2 credits WW

This course will review essential wastewater math conversions and formulas, as well as providing the opportunity for attendees to practice typical wastewater problem-solving. Recommended for those attendees planning to take any of basic level wastewater exams (Small through Level II).

Drinking Water Regulations Overview

Violette Valerio-Hirschfeld - NMED Drinking Water Bureau

Regulation / 2 credits W/BT

The Safe Drinking Water Act ensures safe public drinking water and the treatment of water for human consumption. Specific Rules require testing for and elimination of certain contaminants for the protection of public health. In this session you will find out what each Rule requires and which Rules apply to your water system. This session also focuses on how water systems achieve and maintain compliance.

Board Responsibilities

Rob Pine - NMED Drinking Water Bureau

Board Training / 2 credits BT

This presentation will provide an overview of the essential responsibilities of a water system board member. Topics include complying with state and federal laws and regulations, conducting business effectively in

accordance with bylaws and rules, record keeping and reporting, proper operation and maintenance, financial management, and planning for the future and for emergencies. Participants of this workshop will receive 2 hours of training credit toward Sanitary Projects Act training requirements.

12 Challenges Facing Operators and Administrators

Rick Allen - BioLynceus, LLC

Management / 2 credits W/WW/BT

This presentation provides a high-level overview of challenges facing municipalities, operators and administrators in the water and wastewater industry, and based on the book, "Critical Issues: Twelve Challenges Facing Water and Wastewater Operators and Administrators" published by Mr. Allen for water professionals. Discussion will include issues that every municipality is facing in budgetary and regulatory changes that can impact plant operations and will provide information to meet new demands. Each of the twelve issues contains valuable information for attendees to consider whether the attendee is an operator, administrator, or working on behalf of a municipality. Both immediate and long-term issues of plant operations will be covered, including preventive maintenance and safety. During this presentation you will learn what challenges are affecting municipalities and some of the options available for working during these challenging times.

Tuesday 10:30

Distribution: Water Audits

Don Van Veldhuizen - USA BlueBook

Basic Water / 1.5 credits W/BT

Learn the difference between a basic water audit and a comprehensive water audit so that your system can best manage its resources. We will discuss leaks, stolen water, meter accuracy, flushing, city uses, fire suppression, and distribution maintenance and how they affect your finances.

Basic Wastewater Math Review, Part 2

John R. Eckley - City of Bloomfield

Wastewater / 1.5 credits WW

Continuation of Part 1 (see Tuesday 8:00 for complete description)

Records, Reporting, Public Notice, Drinking Water Watch, and Consumer Confidence Reports

Nora Romero - NMED Drinking Water Bureau

Regulation / 1.5 credits W/BT

This presentation will review the record keeping, reporting, and public notice requirements of the Safe Drinking Water Act. It will also include a demonstration on how to use the Drinking Water Watch web application available on NMED's website. Drinking Water Watch allows access to a variety of information about any public water system including contact information, sampling results, violations and enforcement actions, and facility information. Also included will be a demonstration on how to use web-based tools to create the annual Consumer Confidence Report.

Water Tank Inspections (How, Why, Benefits)

Russell W Brown - Tank Maintenance & Construction, Inc.

Advanced Water / 1.5 credits W

Tank inspection money, like any service issue, is harder and harder to get budgeted. Tank improvement for your system can only come from thorough, successful, and informative inspection activities. This presentation will compare the diving method, actual entry, cleaning method, and float-down inspections based on local New Mexico case histories and the impact that the inspection dollar had, or did not have.

Sanitary Projects Act

Rob Pine - NMED Drinking Water Bureau

Board Training / 1.5 credits BT

The Sanitary Projects Act (SPA) is the state law under which a Mutual Domestic Water Consumer Association (MDWCA) is incorporated and operates. It is essential that board members for all MDWCAs be knowledgeable in

the requirements of the SPA. This workshop will cover the essential portions of the SPA. Participants of this workshop will receive 1 hour of training credit toward Sanitary Projects Act training requirements.

Protecting Your Water Supply and Your Bottom-Line: Shifting Treatment Costs From Ratepayers to Polluters

Victor Sher - Sher Leff, LLP
Management / 1.5 credits W

This presentation will discuss the legal theories underlying landmark cases brought by public water suppliers against large corporations responsible for polluting drinking water supplies and the status of lawsuits currently pending in jurisdictions around the country. The presentation will also discuss emerging contaminants of concern to rural water providers and the legal and political responsibilities and pitfalls involved in addressing actual or threatened contamination of a public water supply.

Tuesday 1:30

Distribution: Line Locating

Don Van Veldhuizen - USA BlueBook
Basic Water / 1.5 credits W

Locates are done in every system. Learn the science behind the locator and how to use that science to your benefit. This will demonstrate some tricks of the trade that may assist you in those difficult locates.

Valve Selection

Dave Buchwald - Pipestone Equipment, LLC
Wastewater / 1.5 credits W/WW

This presentation will identify common valves used in distribution systems and how to apply them correctly. Valve types covered will include isolation, air, blow-off, pressure reducing, altitude, and others. Valve sizing and selection processes will be covered in addition to a discussion of valve operations and maintenance procedures.

The Lead and Copper Rule

Nora Romero - NMED Drinking Water Bureau
Regulation / 1.5 credits W

The Lead and Copper Rule (LCR), originally promulgated in 1991 under the Safe Drinking Water Act, is intended to protect public water system consumers from exposure to lead and copper in drinking water. This Rule requires systems to monitor drinking water at customer taps. If lead concentrations exceed the lead/copper action levels, the water system must undertake actions to control corrosion and inform the public. This presentation reviews the LCR requirements including the 2007 amendments. Topics include monitoring, public notice, and water system response to elevated lead or copper levels.

UV Treatment in New Mexico: Opportunities and Challenges

Ken Kershner - Aquionics, Inc.
Advanced Water / 1.5 credits W/WW

Ultraviolet disinfection has gained increasing acceptance as a final treatment step for many drinking water, wastewater, and reuse applications in the US over the last 20 years. However, as a technology it is vastly different from the chemical treatment it typically replaces and as such, more and more engineers are faced with the challenge of designing systems that meet their clients' disinfection requirements. This responsibility has become increasingly more complex with the various regulations, lamp technologies and equipment configurations currently available. This paper provides an overview of UV treatment technology, the regulations that govern it and specific case studies.

Financial Management, Part 1

Rob Pine - NMED Drinking Water Bureau
Board Training / 1.5 credits BT

A water system is a business whether it is public or private, for profit or non-profit. It is one of the most essential responsibilities of board members to provide proper financial management to ensure that the system will be able to reliably deliver safe drinking water to its customers now and in the future. This workshop will cover reserve funds, budgets, financial reporting, rate setting and internal controls.

Managing Successful Construction Projects

Richard Rose - NMED Construction Programs Bureau
Management / 1.5 credits W/BT

Learn about the ins and outs of the construction management process and participate in a discussion of frequently encountered challenges and options. As with most activities, planning is the key and this presentation will tie in with planning and design tracks.

Tuesday 3:30

Distribution: Mainline Flushing

Don Van Veldhuizen - USA BlueBook
Basic Water / 1.5 credits W

Flushing is a necessary yet often overlooked part of distribution maintenance. Determine the frequency and duration for the flushing of your system and the results when flushing is completed. Learn how to set up and execute a flushing plan, and what equipment and chemicals (if de-chlorinating) are necessary and how to use them safely.

The Total Coliform Rule

Danielle Shuryn - NMED Drinking Water Bureau
Regulation / 1.5 credits W

The Total Coliform Rule, published in 1989, was intended to improve public health protection by reducing fecal pathogens to minimal levels through the control of total coliform bacteria, including fecal coliforms and E. coli. This Rule impacts every drinking water system in New Mexico and a thorough understanding of it is essential for all water operators. This session reviews the Rule, and its monitoring and public response requirements.

Municipal Water Disinfection using Calcium Hypochlorite

Ron Turner - Arch Chemicals, Inc
Advanced Water / 1.5 credits W/WW

This session will discuss the use of calcium hypochlorite and feed equipment as a disinfectant in water and wastewater treatment applications.

Financial Management, Part 2

Rob Pine - NMED Drinking Water Bureau
Board Training / 1.5 credits BT
Continuation of Part 1 (see Tuesday 1:30 for complete description)

Introduction to Water Law

Elizabeth Newlin Taylor - Taylor & McCaleb, PA
Management / 1.5 credits W/BT

In this fast-paced and interactive presentation water law attorney Liz N. Taylor will present the basics of New Mexico water law. Building from the aquifer up, Ms Taylor will explain how the law recognizes, and sometimes protects, water rights in New Mexico from the many demands made on the system. She will explain why, for example, the "use it or lose it" principle of water administration made sense when it was established but why it is a major impediment to water conservation today. She will also review the questions that must be answered before any water right is purchased as well as pitfalls for the buyer.

Wednesday 8:00

Fire Hydrants: The Forgotten Apparatus

Michael Alvidrez - Pueblo of Santa Ana
Basic Water / 2 credits W

The session begins with the history of this valuable apparatus and continues to discuss common hydrant nomenclature, inspection, installation, maintenance, and testing. Conclusion is "How to Conduct a Fire Flow Test",

which includes flowing a hydrant through a Pitot tube to calculate the pre-determined 20 psi, an ISO rating requirement.

Wastewater Characteristics & Preliminary/Primary Treatment

Dixie Daniels - City of Socorro

Nick Tobey - former Town of Bernalillo Public Works Director

Wastewater / 2 credits WW

This session begins with a review of wastewater characteristics and introductory topics include sources of wastewater, reasons for treatment, the hydrologic cycle, wastewater constituents and categories plus typical treatment plant schematics. The second portion will broadly cover the role of preliminary treatment processes, as well as the mechanics of primary treatment for wastewater. A survey of screening, grinding, grit removal, and flotation/settling devices will serve as a review for those participants who plan to test or as a refresher for advanced certified operators. Topics will closely follow the [New Mexico Wastewater Certification Study Manual](#).

Drinking Water Regulations Overview

Violette Valerio-Hirschfeld - NMED Drinking Water Bureau

Regulation / 2 credits W/BT

The Safe Drinking Water Act ensures safe public drinking water and the treatment of water for human consumption. Specific Rules require testing for and elimination of certain contaminants for the protection of public health. In this session you will find out what each Rule requires and which Rules apply to your water system. This session also focuses on how water systems achieve and maintain compliance.

Dos & Don'ts of Tracer Wire System Installations

Michael Moore - Copperhead Industries, LLC

Advanced Water / 2 credits W

Tracer wire has been one of those should we or shouldn't we use issues through-out North America. This presentation addresses the dos and don'ts of Tracer wire uses through traveling the country and working with many municipalities, engineers and contractors. What's new on the market and what's been used that doesn't work? Sample specifications and hands on demonstrations are part of presentation.

Legislative and Litigation Update

Jeffrey H. Albright - Lewis and Roca LLP

Board Training / 2 credits BT

This presentation will be a summary of legislation from the 2010 legislative session. Included will be a summary of recent decisions at the Public Regulation Commission and ongoing litigation in state courts.

USDA Rural Development: American Recovery and Reinvestment Act (ARRA) Funding

Martha Torrez - USDA Rural Development

Management / 2 credits W/BT

USDA Rural Development, Water and Environmental Programs have more funding available for rural water and wastewater disposal programs than ever before in our nation's history. The American Recovery and Reinvestment Act expands funding opportunities to develop water and wastewater facilities. Experts from USDA Rural Development will provide you with the latest updates on the stimulus funding and how your system can access it.

Wednesday 10:30

Water Math

Ron Schwarzwaldner - NMRWA

Basic Water / 1.5 credits W

All operators cringe at the thought of the math we need to do for our systems. This presentation will help us refresh our basic math understanding and remind us of the right way to calculate areas, volumes, chemical feeds, percents, and use conversion factors. The math needed to correctly operate a water system isn't difficult, but your basic foundation must be strong and used frequently to stay fresh. Challenge yourself, bring your calculators, and let's get back to the basics!

Wastewater Solids Handling & Fixed Film Processes

Joe Ramirez - City of Tucumcari

Wastewater / 1.5 credits WW

This course consists of a review of wastewater solids handling and fixed film processes. Topics will include anaerobic digestion, various dewatering methods, 503 regulations, trickling filters, and rotating biological contactors. Recommended for attendees planning to take any of basic level wastewater exams (Small through Level II).

Drinking Water Questions & Answers

NMED Drinking Water Bureau Staff

Regulation / 1.0 credits W/BT

This is an opportunity for water system operators and administrators to bring their drinking water-related questions to the Drinking Water Bureau (DWB). Several DWB staff members will be on hand to provide answers and open discussion about regulations, compliance, enforcement, capacity, or any other topic of interest to water systems.

Drinking Water System Management for Compliance

Jerry C. Biberstine - National Rural Water Association

Advanced Water / 1.5 credits W

The disinfection requirements of the Groundwater Rule and the limits on chlorine residual and TOC imposed by the Stage 1 and 2 Disinfection By-Products Rule will have many systems scrambling to comply. Issues such as source water protection, disinfection methods, alternate disinfectants, 4-log reduction, contact time requirements, storage tank and distribution system management options will all be discussed.

NM Procurement Code

Rick Bela

Board Training / 1.5 credits BT

This presentation will examine the NM State Statute 13-1-28 thru 13-1-99, better known as the "Procurement Code". Real-world examples will help explain how to satisfy agency needs while properly applying the Code.

Energy Matters: A Look at Sustainability and Energy Efficiencies

Rick Allen - BioLynceus, LLC

Management / 1.0 credits W/WW/BT

This session will guide attendees through very basic steps every system can take to reduce energy consumption. Strategies for evaluation will be highlighted to give attendees an opportunity to look at their own systems and consider where and how adjustments can be made to improve energy efficiency. This session will also look at some key areas of sustainability to help every facility make changes that will reduce long-term energy consumption and help their bottom line.

Wednesday 1:30

NM Excavation Law Certification, Part 1

Vic Newton - New Mexico One Call, Inc.

Basic Water / 1.5 credits W/WW

This class provides an in-depth look at the state statutes, rules, and regulations regarding excavation and how burdens of responsibility can shift from one party to another. Emphasis is placed on when you may dig and how to handle "clears" correctly. The NM Excavation Law contains provisions for fines of \$5,000 to \$25,000 for facility owners of underground plants and excavators who violate the law. Presentation will also cover new rules adopted by the PRC regarding administration of the law. Handouts of the NM Excavation Law and the appropriate NMPRC rules condensed into a student manual and a pocket size excavator's manual will be included. Participants will receive a certification from NM One Call upon completion of both parts of this class.

Lagoons, WW Regulations and Reporting

Susan Maupin - NMRWA

Wastewater / 1.5 credits WW

This class will focus on review of basic lagoon theory of operation and maintenance for operators who plan to take Small, Level I, and Level II Wastewater Certification exams. As time allows, the instructor will touch briefly on state and federal regulations, and reporting requirements for all permitted wastewater facilities.

Certified Operators & Samplers: Regulations, Responsibilities, Contracting

Violette Valerio-Hirschfeld - NMED Drinking Water Bureau

Regulation / 1.5 credits W/BT

All Public Water Systems in New Mexico are required to be operated by a certified operator under both the Safe Drinking Water Act and the Utility Operator Certification Act (UOCA). Learn what the UOCA and associated regulations require, general certified operator roles and responsibilities, and how to contract with a certified operator.

Under-Pressure Installations

Seth Raile - Municipal Pipe Services

Advanced Water / 1.5 credits W

With distribution repairs, required outages are eliminated with under pressure installations. Line stopping enables repairs and replacement of pipe, valves and hydrants without main shut downs or service interruptions. Hot tapping enables expansion of existing services without shutdown. Valve insertion allows a valve to be installed into a line with no outages in service. Machine valve exercising to maintain system readiness will also be discussed. Information will be presented using slides, handouts and hands-on exercises.

Open Meetings Act

Mary H. Smith - New Mexico Attorney General's Office

Board Training / 1.5 credits BT

The class gives an overview of the New Mexico Open Meetings Act (OMA) and how this law applies to rural water associations subject to the Sanitary Projects Act, or other statutes requiring compliance with the state's Sunshine Laws. By giving a step-by-step review, this class will help association officers and employees understand their responsibilities under, and the intent and application of, the OMA. We will discuss which meetings must be open to the public, the requirements for notice, agenda and meeting minutes, and meeting closure. We will also discuss the penalties for violating the OMA.

USDA Rural Development Funding Programs

Martha Torrez - USDA Rural Development

Management / 1.5 credits W/WW/BT

Many communities need to invest a large amount of financial resources to improve their water, wastewater and solid waste facilities, but often do not have the means for such an investment. In this session, USDA Rural Development will provide information on available financing methods that can help communities develop the most effective and efficient infrastructure.

Wednesday 3:30

NM Excavation Law Certification, Part 2

Vic Newton - New Mexico One Call, Inc.

Basic Water / 1.5 credits W

Continuation of Part 1 (see Wed 1:30 for complete description)

Wastewater Sampling and Analysis Review

David R. Sonnenberg - City of Bloomfield

Wastewater / 1.5 credits WW

This presentation is intended as a basic review of sampling protocols for wastewater compliance sampling and analysis. Total Chlorine Residual by DPD, pH, and dissolved oxygen analysis will be covered in some detail while a general overview of BOD, TSS and fecal coliform/E. coli testing will be given. Recommended for attendees planning to take any of basic level wastewater exams (Small through Level II).

Determining CT and the Groundwater Rule

Andy Edmondson and Damian Luna - NMED Drinking Water Bureau

Regulation / 1.5 credits W

The Groundwater Rule has disinfection requirements that could impact many drinking water systems. Under the Rule, systems that are required to chlorinate must meet requirements for CT (Chlorine dose x contact Time). What are the regulatory requirements for CT? How is CT calculated? This session will address these and other questions.

Give Me A Break! Preventing Water Main Breakage

James T Lary - Corrpro

Advanced Water / 1.5 credits W

Water main breaks result in unexplained water loss, service disruptions, boiling alerts, and increased maintenance and operating costs. The failure to properly identify the true cause(s) of such breaks and initiate proactive measures to prevent further breakage can result in economic losses and threaten public safety. The presentation will explore both the myths and facts on pipe breakage and also identify programs employed to not only reduce main breaks but also extend the life of water piping systems through technologically proven programs. Several case histories will also be discussed.

Inspection of Public Records Act

Mary H. Smith - New Mexico Attorney General's Office

Board Training / 1.5 credits BT

The New Mexico Inspection of Public Records Act (IPRA) is an important law that applies to water associations required to comply with the state's open government laws through the Sanitary Projects Act or other state law. While it may seem complicated at first glance, the IPRA is straightforward as to how association officers and employees can allow the public to access, inspect, and copy your public records. We will discuss what public records are and how you can make them available, and why it is important to allow the sun to shine on association business.

In Search of the Perfect Water Storage Tank

Patrick J Grummer - Engineering America

Management / 1.5 credits W

Which type of water tank does your system need/want? This session will look at all types of water storage tanks: concrete, welded steel, epoxy bolted, and porcelain enamel. Included in the discussion will be cost comparisons, maintenance, life spans, and actual life cycle costs.