

MONDAY, MARCH 20, 2006

MONDAY MORNING

NEW RULE OVERVIEW: STAGE 2 DISINFECTION BYPRODUCTS RULE**8:00-10:00** 2 Credits - Water

Kim Ngo Kidd, Environmental Protection Agency

Chuck Thomas, New Mexico Environmental Department

The federal Stage 2 Disinfection Byproducts Rule was published in December, 2005 and became effective on January 3, 2006. This rule will impose new short-term sampling requirements on most drinking water systems that disinfect their water. This new rule and its impacts on New Mexico's drinking water systems will be discussed, along with a review of the Stage 1 Disinfection Byproducts Rule.

WASTEWATER REUSE**8:00-10:00** 2 Credits - Wastewater

Hal Senke, Resource Wise

This class provides an overview of water reuse. Areas covered include: the connection between water reuse and the hydrologic cycle, historic examples of water reuse, fundamentals of reused water including reuse water composition and characteristics, legal considerations pertaining to water reuse and operational and maintenance considerations for large water reuse treatment and distribution systems. Specific reuse areas include treated effluent irrigation, grey water systems, water reinjection and other common, practical examples of water reuse found today.

USDA RURAL DEVELOPMENT FUNDING PROGRAMS**8:00-10:00** 1 Credit – Water/Wastewater

Martha Torrez, United States Department of Agriculture, Rural Development

Personnel from Rural Development's Rural Utilities Service section will provide an overview of their funding and program changes for Fiscal Year 2006. Topics discussed will include Agency reorganization under the Consistency Plan, FY 2006 water and wastewater funding allocations, new loan/grant determination method, interest rates, user rate requirements, audit requirements, pre-authorized debit payments and future funding projections. This course is designed to give water and wastewater system boards and managers an insight into funding future infrastructure improvement projects through Rural Development and other sources as grant availability continues to decrease across the industry. Time permitting, RUS staff will address specific questions and concerns raised by the audience.

CREATING A PREVENTATIVE MAINTENANCE PROGRAM**8:00-10:00** 2 Credits – Water preventative

Robert Apodaca, New Mexico Rural Water Association

Preventative maintenance is a critical program for water operations that will extend the life of system components, and help the system to perform properly and efficiently. This course is designed to assist water operators in the development and implementation of a preventative maintenance plan. The course will discuss preventative maintenance plan terminology, programmatic issues, and the overall benefits of planning. The course will also detail maintenance program elements such as maintenance records, spare parts inventory, and personnel training. Finally, the course will outline plan implementation techniques, and how to build a budget for the plan.

VULNERABILITY ASSESSMENT & EMERGENCY RESPONSE PLANS

8:00-10:00 2 Credits – Water/Wastewater

Tim Wellman, New Mexico Rural Water Association

The Safe Drinking Water Act and funding agencies have required many of New Mexico's water and wastewater systems to develop vulnerability assessments and emergency response plans. This course is designed to inform water and wastewater system personnel about these requirements and the importance of the vulnerability assessment and emergency response plan.

NEW MEXICO WATER LAW

8:00-10:00 0 Credits

Elizabeth Newlin Taylor, Wolf, Taylor & McCaleb

Building from the aquifer up, water law attorney Liz N. 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 unwary buyer.

RADIONUCLIDES RULE

10:30-12:00 1.5 Credits - Water

Kim Ngo Kidd, Environmental Protection Agency

The federal Radionuclide Rule is intended to reduce the exposure to radionuclides in drinking water, lowering the risk of cancer from these contaminants. The rule, in its current form, was published in 2000 and created monitoring requirements beginning at the end of 2003. This rule has impacted many drinking water systems in New Mexico. The rule and its requirements will be discussed in detail.

READING AND INTERPRETING PUMP CURVES

10:30-11:30 1 Credit - Water/Wastewater

Jim Bassett, TP Pump

This session will teach water and wastewater operators to decipher the mysterious pump curve for groundwater pumps and sewage pumps. The course will provide operators with information on pump sizing and efficiency requirement, calculating head and flow requirements and discuss the various efficiency points for different pump manufacturers.

INFRASTRUCTURE PLANNING AND THE STATEWIDE ICIP PROCESS

10:30-12:00 .5 Credits - Water/Wastewater

B. Jesse Monfort Bopp, Esq., Local Government Division

This session explains how to develop and use an infrastructure plan for your municipality and be included in Local Infrastructure Capital Improvement Plan, a publication—used by your water association and legislators and other funders—that includes the infrastructure priorities of participating communities around New Mexico, including municipalities, counties, tribes, and other sub-divisions of the state. This session gives a step-by-step introduction to the web forms available for completing the plan and submitting planning information to the state.

TABLET CHLORINATION TECHNOLOGY

10:30-12:00 1.5 Credits - Water

John Fisher, PPG Industries, Inc.

Tablet chlorination is a viable alternative to chlorine gas and liquid sodium hypochlorite and is currently being used by municipalities and industry for water, wastewater and a variety of process treatment applications. Increasing safety related costs associated with hazardous materials is a driving force behind the growing interest in dry tablet chlorination. This presentation will provide a general overview of the use and operation of tablet chlorination systems. The presentation will also compare and contrast chlorine in its primary forms: gas, liquid and tablet.

PRACTICAL AND ECONOMICAL SECURITY MEASURES FOR WATER AND WASTEWATER SYSTEMS

10:30-12:00 1.5 Credits – Water/Wastewater

Dan Keith, Dan's Company

This course will introduce you to a variety of low cost and innovative security measures to help you comply with SDWA regulations, funding agency requirements, and ensure public confidence in water or wastewater systems. The instructor will also demonstrate installation of wellhead security covers designed in collaboration with New Mexico Rural Water Association.

OPEN MEETINGS ACT

10:30-12:00 0 Credits

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

This class gives an overview of the New Mexico Open Meetings Act and how this law applies to rural water associations subject to the Sanitary Projects Act. We will discuss

what meetings must be open to the public, the requirements for notice, agenda and minutes of meetings, and when and how a meeting may be closed. We will also discuss the penalties for violating the OMA and how a board can cure its OMA violations.

ETHICS FOR OPERATORS

11:30-12:00 .5 Credits – Water/Wastewater

John Eckley, City of Bloomfield

The objective of the course is to discuss operator ethics and the importance of ethics in the workplace. The instructor will discuss a variety of ethical issues that water and wastewater operators may encounter in the workplace on a daily basis.

MONDAY AFTERNOON

WATERBORNE PATHOGENS, DISEASE AND SURVEILLANCE

1:30-3:00 1.5 Credits - Water

Judith Espinoza, New Mexico Department of Health

Len Flowers, New Mexico Department of Health

Environment Health Epidemiologists from the New Mexico Department of Health will give an overview of the following programs and address their role in disease prevention and monitoring, and education and outreach: 1) Waterborne Disease Surveillance Project (WDSP); 2) Biomonitoring which measures people's exposures to various toxins using biological samples, such as blood, urine or saliva; and 3) Environmental Public Health Tracking (EPHT) and Counterterrorism Preparedness. Preliminary bio-monitoring results for arsenic and uranium will be presented.

TESTING FOR ECOLI BACTERIA: SHOW AND TELL

1:30-3:00 1.5 Credits - Wastewater

Paul Gray, New Mexico Scientific Lab Division

In response to the July 2005 New Mexico Water Quality Control Commission Regulations, this presentation will cover the currently approved Most Probable Number (MPN) standard method as well as two proposed EPA membrane filtration procedures. This class is a must for all wastewater treatment staff whose facilities are governed by NPDES permits. These permits are being reissued with E. Coli testing as the disinfection effectiveness indicator.

STRATEGIC PLANNING FOR WATER SYSTEM SUSTAINABILITY: THE ROLE OF REGIONALIZATION

1:30-5:00 1 Credit – Water/Wastewater

Anne Watkins, NM Office of the State Engineer

Heather Himmelberger, Environmental Finance Center

Olga Morales-Sanchez, Rural Community Assistance Corporation

Christine Ageton, New Mexico Rural Water Association

Richard Rose, New Mexico Environment Department

Fernando Martinez, New Mexico Environment Department

This workshop will address the requirements for sustainability and present case studies to demonstrate both the successes and challenges of regionalization. Water systems throughout the United States are facing increasing challenges in meeting the demand for safe and reliable drinking water. Population increases, source water quality degradation, decreases in funding sources, drought, and new regulatory requirements are all stressing systems already faced with aging infrastructure and operational demands. Regional collaboration is evolving as a way for water systems with limited resources that share the same resource and are geographically proximate to meet this challenge. Over the past several years, a regionalization initiative in New Mexico has provided technical assistance to several areas of the state, resulting in innovative and locally-based approaches to regionalization.

VIALE ARSENIC TREATMENT TECHNOLOGIES FOR NEW MEXICO

1:30-2:30 1 Credit - Water

Rich Cavagnaro, Adedge Technologies

This session will address the development of granular ferric oxide (GFO) based adsorption systems into public water systems for arsenic removal. There will also be an overview of the 14 EPA full scale Arsenic Demonstration Projects and discussion of solution costs, disposal method and simplicity of operating systems.

NMED'S DRINKING WATER EMERGENCY RESPONSE PLAN AND SECURITY UPDATE

1:30-3:00 1.5 Credits – Water/Wastewater

Jerome K. Lewis, New Mexico Environment Department

This class will discuss NMED's new Drinking Water Emergency Response Plan for drinking water systems and NMED/DWB oversight personnel. This discussion will include: the communications protocol, what emergencies are covered, when to activate this plan, how it works and what agencies it coordinates with. Special attention will be given to potential water contamination threats or incidents. This will contain a section on "Site Characterization," which is the EPA approved method of investigating a potentially contaminated site. Participants will also be updated on other proposed DWB security programs and other security issues, in particular, recommended actions for small community water systems.

INSPECTION OF PUBLIC RECORDS ACT

1:30-3:00 0 Credits

Mona Valicenti, Attorney General's Office

This class will provide an overview of the New Mexico Inspection of Public Records Act (IPRA) as it applies to water and wastewater utilities. The presentation will cover the general principle behind the Act, the public bodies it applies to, and definitions. The class will also cover the procedures for requesting public records and timelines involved

in responding to such requests. Twelve exceptions found in the Act will be covered in detail. The presentation ends with enforcement of the Act and court awarded damages for violations of the Act.

AUTOMATING RURAL WATER SYSTEMS/SCADA SYSTEMS

2:30-3:00 .5 Credits – Water/Wastewater

Karl Lambert, Campbell Scientific, Inc

This presentation describes issues involved in automating a rural water system, and informs the possible user about dataloggers/RTUs, telemetry, sensors, and possible software options available for automated systems. Automated systems measure various parameters (e.g., water level, pump speed, air temperature, wind speed, etc.), and control external devices such as pumps or alarms based on those measurements.

CAPACITY DEVELOPMENT/ENFORCEMENT PROGRAM

3:30-5:00 1.5 Credits – Water/Wastewater

Retta Prophet, New Mexico Environment Department

Ronald J. Romero, New Mexico Environment Department

This session includes an update of the activities, accomplishments, opportunities, and resources of the combined capacity development and enforcement programs of the Drinking Water Bureau. Future enforcement issues and related capacity program activities will be presented, with an opportunity for discussion and questions and answers. Topics will include the criteria which determine enforcement actions, penalties, and the process of receiving capacity assistance to return to compliance.

HOW TO PREPARE FOR A WASTEWATER COMPLIANCE INSPECTION

3:30-5:00 1.5 Credits - Wastewater

Sandra Gabaldon, New Mexico Environment Department

This session offers an overview of the various types of inspections conducted under the authority of the NPDES program, with an emphasis on Compliance Evaluation Inspections and Compliance Sampling Inspections. Additionally, this overview will provide detailed information on the common components making up these types of inspections, as well as common noncompliance issues found during inspections.

THE AQUIFER PUMPING TEST: WHAT IS IT AND WHY WOULD YOU WANT TO PERFORM ONE ON YOUR WELL

3:30-5:00 1.5 Credits - Water

Annie McCoy, John Shomaker and Associates

Aquifer pumping tests help water-system operators determine whether a well will be capable of meeting their community's day-to-day and long-term ground-water supply demands. Pumping tests are almost the only way to diagnose a well's problems, and determine whether loss of yield is due to the pump, loss of well efficiency, or declining water levels. In this workshop, a water-resource consultant will discuss step-drawdown

and constant-rate pumping tests. An information packet will be provided, and workshop participants will take home practical information on aquifer pumping tests and how they are used to maintain and develop reliable ground-water supplies for rural communities.

WHAT TO DO IF YOU DIG UP A GAS LINE

3:30-5:00 1.5 Credits – Water/Wastewater

Gary Sloman, New Mexico One Call, Inc

James Stanovcak, Public Service Company of New Mexico

This course is an in depth look at the state statute and the requirements for the excavator when an accident occurs and a gas line is damaged. Emphasis is placed on what action to take and the characteristics of natural gas. The course focuses on understanding the nature of natural gas and what actions to take in order to safely secure a damage site, and the consequences of not adhering to the requirements.. The presentation will also cover the new rules adopted by the PRC regarding administration of the excavation law as it applies to dig-ins.

INTRODUCTION TO 7 U.S.C. SECTION 1926(b)

3:30-5:00 0 Credits

Michael D. Davis, Doyle, Harris, Davis & Haughey

In an effort to encourage the development of facilities to provide water and other services to rural areas, the federal government set up a loan program. As part of this program, 7 U.S.C. Section 1926(b) was enacted to protect any association borrowing funds under this program. This class will cover the basic issues relating to Section 1926(b), including the purpose of the statute and the protection it provides, why an association should obtain the protection provided by the statute, how an association can qualify for the protection provided by the statute, remedies available for violation of the statute, and settlement issues.

TUESDAY, MARCH 21, 2006

TUESDAY MORNING

NEW RULE OVERVIEW: LT2ESWTR

8:00-10:00 2 Credits - Water

Kim Ngo Kidd, Environmental Protection Agency

Chuck Thomas, New Mexico Environment Department

The federal Long Term 2 Enhanced Surface Water Treatment Rule (LT2ESWTR) was published in December, 2005 and became effective on January 4, 2006. This rule will impose sampling requirements on most surface water treatment systems and could ultimately require modifications in treatment. This new rule and its impacts on New Mexico's surface water systems will be discussed, along with a review of LT1ESWTR and IESWTR.

SLUDGE DIGESTION: THE FORGOTTEN PROCESS**8:00-12:00** 3.5 Credits - Wastewater

Ron Trygar, USA Bluebook

You've done a fantastic job cultivating biomass that helped the treatment plant meet all state and federal guidelines! To keep the system in optimal condition, some of the biomass must leave the treatment train. Next stop: Digester. In some treatment plants, the digestion process is the forgotten process. This seminar brings focus back to the issue of sludge digestion and how it can affect the whole treatment plant. Subject matter covered includes an in-depth look at aerobic and anaerobic sludge digestion, process control techniques and troubleshooting. Also included in the discussion is pH and alkalinity, two key parameters that must be understood to properly operate sludge and digestion process.

BASIC BOOKKEEPING**8:00-12:00** 0 Credits

Karen Johnson, Rural Community Assistance Corporation

This workshop will cover basic accounting principles, including proper documentation required to support financial transactions, accounting structure, loan/grant tracking for capital projects, separate reporting of financial information if utility operates more than one activity (i.e. sewer, water, roads, etc.), record retention; basic internal controls (checks and balances and segregation of duties), financial report preparation; and billing software considerations.

ARSENIC REMOVAL TECHNOLOGIES AND THE CoAsT TOOL**8:00-12:00** 3.5 Credits - Water

Peter Nathanson, WERC/New Mexico State University

Christopher Campbell, WERC/New Mexico State University

WERC, as a member of the Arsenic Water Technology Partnership, has developed the Comprehensive Arsenic Tool (CoAsT), a free web-based interactive tool. The CoAsT integrates technology decision trees, cost models and a rate-setting tool to assist small systems in making informed decisions about arsenic removal technologies. This class will include a review of current technologies for arsenic removal and a demonstration of the CoAsT.

THE NEW MEXICO EXCAVATION LAW**8:00-12:00** 3.5 Credits – Water/Wastewater

Gary R. Sloman, New Mexico One Call, Inc.

This workshop is an in depth look at the State statute and how it imposes and shifts burdens of responsibility from the excavator to the facility owner. Emphasis is placed on when you may dig and how to handle “clears” correctly. The law is covered from two perspectives: one detailing the excavator’s responsibilities and another covering the

facility owner's responsibilities. The presentation covers liabilities, definitions and practical application of the law to the excavator's and facility owners. The NM excavation law contains provisions for major fines (\$5,000-\$25,000) for facility owners of underground plants as well as excavators who violate the law. The presentation will also cover the new rules adopted by the PRC regarding administration of the excavation law.

DISTRIBUTION SYSTEMS WORKSHOP

8:00-12:00 3.5 Credits – Water/Wastewater

Michael Alvidrez, New Mexico Rural Water Association

This comprehensive workshop will cover operation and design of distribution systems. Topics will include operational equipment, regulations, public notice, valves, hydrants, meters, water main installations, water services, and customer service issues dealing with water quality. The class will include an entertaining and competitive game of distribution jeopardy. Participants will receive a workbook with questions and answers for each topic area, requiring a calculator and active class participation.

THE TOTAL COLIFORM RULE & SAMPLING REQUIREMENTS

10:30-12:00 1.5 Credits - Water

Kim Ngo Kidd, Environmental Protection Agency

Joe Chavez, New Mexico Environment Department

The Total Coliform Rule, published in 1989, was intended to improve public health protection by reducing fecal pathogens to minimal levels through 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 operators. This workshop will review the rule, and its monitoring and public response requirements.

TUESDAY AFTERNOON

FIELD TRIP TO ALBUQUERQUE COMPOSTING FACILITY

1:30-3:00 .5 Credits - Wastewater

Abe Lopez, City of Albuquerque Public Works

Participants will take a field trip to the Albuquerque Composting Facility to see first-hand the large scale composting operation in action. Participants will see the composting, screening, turning, sampling and monitoring procedures. In approximately 1½ months, the city can process 300 cubic yards of organic waste into viable compost.

EXHIBITOR DEMONSTRATION CLASSES

1:30-5:00 2.5 Credits – Water/Wastewater

Please see the Exhibitor Demonstration Classes Instruction Sheet included in your conference materials for further information.

WEDNESDAY, MARCH 22, 2006

WEDNESDAY MORNING**DRINKING WATER REGULATIONS OVERVIEW****8:00-12:00** 3.5 Credits - Water

Chuck Thomas, New Mexico Environment Department

This class will be an overview of all Safe Drinking Water Act Rules. Find out what each rule requires and which rules apply to your water system. This session will provide a brief overview of each rule currently in effect and focuses on what water systems need to do to achieve and maintain compliance.

BASIC WASTEWATER MATH REVIEW**8:00-10:00** 2 Credits - Wastewater

Arnie Castaneda, City of Mesilla

In this class, basic math will be covered as it pertains to small wastewater treatment and collection systems. Topics will include common formulas, chlorine, and math problems applied to real life situations an operator faces everyday. This is an essential course for the operator certification exam. Handouts and reference materials will be provided.

BASIC FINANCIAL MANAGEMENT**8:00-12:00** 0 Credits

Karen Johnson, Rural Community Assistance Corporation

Cynthia Rex, Rural Community Assistance Corporation

This workshop is geared toward management and decision-makers who should be using the financial information reported to make well-informed short and long-term decisions. The class will cover the importance of strong internal controls to minimize the risk of errors, omissions and fraud, and to assist with receiving an “unqualified” audit opinion; identify the financial statements that should be regularly reviewed during board meetings; the use of complete and accurate information to develop a realistic and effective budget that rate structures should be based upon; and completion of the RUS Form 442 report.

CONSUMER CONFIDENCE REPORT WORKSHOP**8:00-9:00** .5 Credits - Water

Andrew Sweetman, Pueblo of Santa Ana

Water suppliers that serve the same people year round must prepare an annual Consumer Confidence Report (CCRs) for their customers by July 1st every year. The reports inform consumers where their drinking water comes from, what’s in it, and how they can help protect it. Attend this hands on workshop to learn how to properly prepare and certify your CCR.

USE OF THE STANDARD ENGINEERING CONTRACT**8:00-9:00** .5 Credits – Water/Wastewater

Jim Chiasson, New Mexico Environment Department

This session provides information on terms used in the Standard Engineering Contract and describes in detail the basic duties and responsibilities of the Owner and the Engineer. This contract is for use by borrowers and grantees in state assisted projects funded through the New Mexico Environment Department and the New Mexico State Legislature.

BASIC MATHEMATICS FOR WATER OPERATORS

8:00-12:00 3.5 Credits - Water

Michael Alvidrez, New Mexico Rural Water Association

This class is designed to help students overcome their fears of basic math, refresh memories and provide valuable information on solving practical problems as well as those on the certification exam. The curriculum will be delivered for both beginning and more advanced students. Topics to be covered will include conversions, well data, basic geometry, flows, pump calculations and disinfection dosages.

21ST CENTURY CONCRETE PROTECTION & REHABILITATION

9:00-10:00 1 Credit – Water/Wastewater

Stephen Boyd, Xypex

This class will address how advanced technology is greatly improving the durability and performance characteristics of concrete. We will discuss how concrete can be rendered completely waterproof without maintenance, which results in a greater life and provides greater architectural freedom in design. Other topics include how to interrupt the freeze thaw cycle which contributes to shortened concrete project life, how to mitigate the alkali-silica reaction, how to protect the rebar from rust and resultant expansion, thus extending the life of concrete, how to protect the concrete from chemical attack, and how to increase the performance of design in areas of high water table or natural springs conditions on the building sites.

WATER AND WASTEWATER FUNDING

9:00-10:00 .5 Credits – Water/Wastewater

Andy Edmondson, New Mexico Environment Department

Every community has aging water and wastewater infrastructure and many have non-compliance issues. Very few, however, can afford to provide the funding to make the necessary improvements. Come to this session and find out about various funding programs available through NMED Construction Programs Bureau that can assist communities in meeting these needs.

INTRODUCTION TO WASTEWATER CHARACTERISTICS

10:30-12:00 1.5 Credits – Wastewater

Robert J. George, New Mexico Environment Department

This course provides an overview of the typical pollutants found in domestic wastewater, how they are measured and the treatment processes that are used to remove them. A brief discussion on ground and surface water discharge permits is also included. Wastewater operators testing for Levels I, II and III will benefit from this course, as will anyone interested in wastewater treatment.

REMOVAL OF RADIUM AND URANIUM FROM DRINKING WATER

10:30-12:00 1.5 Credits – Water

Ryan Petersen, WRT

We will discuss the MCL's set by the USEPA for Radium, Uranium, Gross Alpha and Beta/Photon Radiation. We will take a look at the existing treatment options available to communities to remove radionuclides. Worker safety with radioactive materials treatment and disposal will be addressed. Pilot studies will be presented as examples of real life applications.

HIRING AN ENGINEER – ALL YOU NEED TO KNOW

10:30-12:00 .5 Credits – Water/Wastewater

Tom Andrews, New Mexico Environment Department

Did you know that in 1989, the New Mexico State Legislature passed Senate Bill 364, which defined design services and mandated qualification-based selection for these services by state agencies and local public bodies? This session provides all you need to know about procuring and negotiating engineering services.

WEDNESDAY AFTERNOON

PROJECT ENGINEERING & CONSTRUCTION

1:30-3:00 1.5 Credits – Water/Wastewater

Chuck Thomas, New Mexico Environment Department/Drinking Water Bureau

This course will provide an overview of what is required for engineering or construction services for public water systems in New Mexico. Learn what needs to be submitted, what key elements are required, what the water system's liability is, and get useful tips on what makes a good project.

LAGOONS PLUS ATTACHED GROWTH SYSTEMS

1:30-2:30 1 Credit - Wastewater

Dan Boivin, Smith Engineering

In this presentation the instructor will address the basic processes that occur in ponds to effect treatment of wastewater, and ways in which the many advantages that ponds offer can be realized while achieving dependable effluent quality, including nitrogen removal through attached growth processes. Ponds (lagoons) are the oldest form of controlled wastewater treatment. They have many advantages over other treatment technologies. In

recent years, ponds have fallen out of favor for treating community wastewater across the US, primarily because their performance is considered (by some) as difficult to predict and control. In New Mexico wastewater treatment by ponds has been problematic because they are poor at removing nitrogen, a contaminant of concern for groundwater.

AUDITOR: FRIEND OR FOE?**1:30-3:00** 0 Credits

Julie Clover, Moss Adams LLP

Sue Sleeper, New Mexico Rural Water Association

This class will cover the nuts and bolts of preparing for and going through an audit. We will discuss what to prepare and expect for your audit experience. We will also discuss what an auditor is looking at and why; this may include discussions on your internal controls, your system and all the people involved in the financial aspects of your accounting records.

DEVELOPMENTS IN CLEANING WATER DISTRIBUTION SYSTEMS**1:30-3:00** 1.5 Credits - Water

Eric W Christensen, RE-Ox LLC

Cleaning pipes, valves and all components of a water distributions system is critical to maintain water flow, system performance and integrity, extend the system life, minimize treatment chemical demand, minimize disinfectant by-products, facilitate chlorine residual to end users, eliminate harborage and provide the highest quality of water. There are many traditional mechanical and chemical methods. These will be reviewed with their advantages and disadvantages. A new technology, RE-Ox, is now available and being used by utilities who are obtaining the benefits of clean systems without the disadvantages of the traditional methods. Case studies and third party analysis will be presented.

PUTTING YOUR PROJECT FUNDS TO WORK**1:30-3:00** .5 Credits – Water/Wastewater

Andy Edmondson, New Mexico Environment Department

You've just received a grant or loan for your infrastructure improvement project, so now what do you do? This session provides information to assist you in completing your project on time and within schedule. Topics include the process involved in working with the NMED Construction Programs Bureau in executing a grant or loan agreement, how to successfully complete a reimbursement request, how to ensure that the project stays on schedule, and dealing with change orders.

DISTRIBUTION WORKSHOP (CONTINUED FROM TUESDAY)**1:30-5:00** 3.5 Credits - Water

Michael Alvidrez, NMRWA

This comprehensive workshop will cover operation and design of distribution systems. Topics will include operational equipment, regulations, public notice, valves, hydrants, meters, water main installations, water services, and customer service issues dealing with water quality. The class will include an entertaining and competitive game of distribution jeopardy. Participants will receive a workbook with questions and answers for each topic area, requiring a calculator and active class participation.

RETURN FLOW CREDIT

2:30-3:00 .5 Credits – Wastewater

John T. Romero, Water Resource Allocation Program, Office of the State Engineer

In this course the instructor will address the complete context of return flow credits. The intention of the course is to assist wastewater system personnel in understanding the system of return flow credit, the practical significance of the credit system, and how to apply for credit.

OPERATOR CERTIFICATION

3:30-5:00 1.5 Credits – Water/Wastewater

Mike Coffman, New Mexico Environment Department

Violet Valerio-Hirschfeld, New Mexico Environment Department

This workshop will review the operator certification regulations with an emphasis on recent modifications to the regulations. It will include a review of the operator certification process and the requirements for the various levels of certification. The emphasis will be on drinking water systems.

BARLEY STRAW USE TO CONTROL POND ALGAE

3:30-5:00 1.5 Credits - Wastewater

Terral Dunn, Utah Rural Water Association

Paul Krauth, Utah Department of Environmental Quality

Learn how to use barley straw, snow fence, plastic jugs, and zip ties to lower the TSS and algae production in lagoon systems to keep them in compliance with their discharge permits. This very inexpensive technology will be demonstrated with a power point presentation of case studies in Utah.

ASSET MANAGEMENT

3:30-5:00 .5 Credits - Water/Wastewater

Heather Himmelberger, Environmental Finance Center

The greatest investment a water or wastewater utility will make is in its physical infrastructure – pipes, tanks, valves, meters, pumps, disinfection equipment, treatment equipment, etc. Often the largest investment in infrastructure will be buried underground and will not be visible for routine inspection. A dilemma utility managers and operators face is how to best manage these assets – both those that can be inspected and those that are buried. A good asset management program can assist a utility by walking them

through the steps of establishing an asset inventory, determining a level of service that is acceptable to the utility and its customers, selecting critical components, determining the amount of funding needed to manage the critical components, and identifying the sources of funding. This workshop will give an overview of asset management for water and wastewater systems.

ADVANTAGES OF ON-SITE GENERATION TECHNOLOGY FOR WATER DISINFECTION

3:30-4:30 1 Credit - Water

Frank Kaylor, MIOX Corporation

This class will begin with a general discussion of today's disinfection alternatives and their associated advantages and disadvantages. The class will address on-site generation of both sodium hypochlorite and mixed oxidants. Questions will be encouraged and an open questions and answers period will be provided. The class will conclude with a demonstration of the MIOX on-site generation technology.

NMFA WATER/WASTE WATER FINANCING PROGRAMS

3:30-5:00 .5 Credits – Water/Wastewater

Tom McHugh, New Mexico Finance Authority

This presentation will discuss NMFA Programs, which provide loans or grants for water and wastewater systems. The discussion will include rules and regulations which define "qualified entities," eligible expenditures, application process and required documentation. The programs discussed will include the Public Project Revolving Loan Fund, Water/Wastewater Grant Fund, Water Trust Board, Water Project Fund and the Local Government Planning Grant Fund.

AN ADVANCED, DECENTRALIZED WASTEWATER TREATMENT SYSTEM FOR THE VILLAGE OF CORDOVA

4:30-5:00 .5 Credits - Wastewater

Ramon M. Lucero Jr., Souder, Miller & Associates

The New Mexico Village of Cordova has had serious wastewater problems for many years. Home lots range from 0.04 to 0.15 acre, and all surround the historic (1832) church. All homes have cesspools, are straight-piped into ditches or have no indoor plumbing at all. Untreated wastewater flows out of cesspools and down dirt streets. NMED provided emergency funding for a study, design and construction of wastewater treatment system. Unlike conventional design (wastewater piped to another location to be treated), this system treats and disposes of wastewater in the community. This system serves as a model for others in Northern New Mexico.