

Monday Morning

Running your Utility as a Business

8:00 – 12:00 Franciscan Ballroom 1 credit – water / wastewater

Phillip Walsack, Farr West Engineering

The headline reads "customers and regulatory agencies are pressuring water and wastewater utilities to act more like business and less like government." As an operator, manager, or board member of a New Mexico utility, what does that mean to you and how should you respond? This course will give you practical suggestions to improve your "business" approach to operations, management and finance. Focus topics will be capacity development, daily reports for lone operators, better board meetings, selecting engineers, and depreciation accounts designed for building infrastructure projects.

Drought Management: Understanding & Coping with Climate Variability & Uncertainty

8:00 – 5:00 Alvarado F 3 credits – water / wastewater

Holly C. Hartmann, University of Arizona, Department of Hydrology and Water Resources

Drought is a recurring problem in New Mexico and has important consequences for both water supply and demand. This training session focuses on the causes and consequences of climate variability in New Mexico, combined with a practical approach for managing drought impacts on water supplies. Topics to be addressed include:

- New Mexico climate processes, historic climate variability and drought, and sources of information about climate
- Long-term perspectives of climate variability based on paleoclimatological indicators
- Climate and water supply forecasts: their creation, interpretation, quality, and application
- Drought planning and management from physical, social, policy, and economic perspectives
- The use of integrated river basin modeling with scenarios for planning
- The prospects of water markets and water banking from the perspective of small and mid-sized water providers

Distribution Systems Workshop

8:00 – 5:00 Alvarado G & H 7 credits – water

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.

Ultraviolet Disinfection Technology for Water Reuse

8:00 – 10:00 Potter's Room 2 credits – water / wastewater

David R. Smith, PurAqua Industrial UV

The use of Ultraviolet Light Systems has made great inroads with the US markets over the last 30 years. The use in the municipal markets has been seen in potable water, wastewater effluent, and now in water reuse disinfection. Water reuse is becoming a more popular topic in the southwest with the current drought and the ever-increasing population growth. This class will examine the principles of UV disinfection, describing advantages and disadvantages of the UV types. The class will also discuss the comparison and the combined use with chemical and filtration alternatives.

Effective Water Storage Tank Inspections

8:00 – 12:00 Weaver’s Room 3.5 credits – water

Randall (Randy) L. Moore, Harold Bishop, Chad Simonson, & Matt Tasch, Utility Service Company, Inc.

This presentation will review the necessary components of an effective water storage tank inspection. Topics covered will include: how to select an inspection firm, a review of the applicable industry standards, frequency of inspection, and a list of what to inspect. The inspection process should evaluate the safety, sanitary, structural, security and coatings conditions of the storage tank. Routine, periodic and comprehensive inspections will be discussed and participants will develop their own routine inspection checklist to use for their tanks in a workshop format.

Tribal Utility Technical Assistance Roundtable

8:00 – 12:00 Turquoise Room 1.5 credits – water / wastewater

Tim Wellman & Christine Ageton, New Mexico Rural Water Association

The Tribal Water and Wastewater System Roundtable is an opportunity for Tribal leaders to discuss what types of activities are working well for tribal drinking water and wastewater systems. This will be the second roundtable sponsored by NMRWA to promote discussion and collaboration on water and wastewater issues among the tribes of New Mexico. The roundtable will discuss issues such as Tribal utility boards, utility department planning and management, water and wastewater rates and metering, generating revenue for utility sustainability and drinking water protection.

Rotary Filters for Wastewater Treatment

10:30 – 11:00 Potter’s Room .5 credits - wastewater

Eddie C. Livingston, Livingston Associates

This presentation focuses on tertiary wastewater treatment using drum-type filters, for irrigation of parks, golf courses, etc. The current NMED reclaimed water use guidelines will be discussed, along with the conditions for when tertiary treatment is needed. Recent drum filter installations will be presented, including the City of Alamogordo, Bonito Park, Nazarine Church and Alto Lakes Golf and Country Club (planned).

Indirect Potable Reuse

11:00 – 11:30 Potter's Room .5 credits – water / wastewater
Eddie C. Livingston, Livingston Associates

The topic of using treated wastewater to augment the drinking water supply will be discussed in this presentation. Treatment technologies and current guidelines are covered, along with emerging water quality issues. As one of the first communities in New Mexico planning to use reclaimed water for part of their drinking water supply, the Village of Cloudcroft Indirect Potable Reuse Project will be presented.

History and Current NMED Policy for Above-Ground Use of Reclaimed Water

11:30 – 12:00 Potter's Room .5 credits – wastewater
Robert J. George, NMED Ground Water Quality Bureau

This presentation will provide a brief history of policy development regarding above ground use of reclaimed domestic water, followed by an overview of the most current policy in use by the NMED, Ground Water Quality Bureau. The formulation of this policy incorporated input from a wide variety of viewpoints, including members of the public, the municipal league, the regulated community, the State Department of Health, the State Environment Department, and consultants. Adherence to this policy will allow the citizens of New Mexico to safely enjoy the benefits of a reliable source of water in landscapes, agriculture, and other useful applications.

Monday Afternoon

Basics of New Mexico Water Law

1:30 – 3:00 Franciscan Ballroom
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'll also review the questions that must be answered before any water right is purchased, as well as pitfalls for the unwary buyer.

Upgrading Existing Lagoons to Advanced Biolac Treatment System

1:30 – 2:30 Potter's Room 1 credit – wastewater
Mohamed Ahmed Salah, Parkson Corporation

In order to meet local stringent high quality effluent requirements, many communities and towns are required to upgrade their existing lagoons to an activated sludge system. Activated sludge processes such as oxidation ditch, SBR, and conventional extended aeration, are not economic solutions for such an upgrade and would require huge civil work and capital investment. Many of these communities have selected Biolac, which is a modification of activated sludge process. A major economic advantage of choosing Biolac is that a small portion of an existing lagoon can be used and modified for an advanced secondary treatment.

Optimizing Coagulation with Streaming Current Measurement

1:30 – 3:00 Weaver's Room 1.5 credits - water

Camilo Denbrock & Matt Quattlebeum, Chemtrak Systems, Inc.

This course will teach participants the principle of coagulation / flocculation and how streaming current works. Instructors will cover monitoring and controlling chemical addition, troubleshooting problems, installation and maintenance of streaming current monitors, and laboratory instruction. A demonstration will be given of how a streaming current monitor works.

NMED Enforcement and Capacity Development Programs Update

1:30 – 3:00 Turquoise Room 1.5 credits - water

Retta Prophet & Ron Romero, NMED Drinking Water Bureau

Staff members from the New Mexico Environment Department will present 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 covered, with an opportunity for discussion, questions and answers.

Self-Propelled Dredging

2:30 – 3:00 Potter's Room .5 credits - wastewater

John Eric Lillberg, SRS Crisafulli, Inc.

This course will offer participants an option for removing sediments and sludge to reestablish lagoon capacity – while the lagoon remains in service. This technology is very useful for regular maintenance of systems that rely on only one lagoon, pond, or basin. The instructor will cover how to minimize the risk of disturbing the existing liner, turbidity caused by equipment operations, and dewatering to minimize transport costs.

Researching at the OSE: Wading through the flood of records

3:30 – 5:00 Franciscan Ballroom

Jeffrey H. Albright, Lewis and Roca Jontz Dawe LLP

This course will provide basic information related to records available at the Office of the State Engineer, including filings at regional offices, hydrology studies, research techniques and water-related databases from the OSE web site. Researching water-related records at locations other than those at the OSE will also be included.

Wastewater Disinfection

3:30 – 5:00 Potter's Room 1.5 credits - wastewater

Joe Ramirez, City of Tucumcari

The focus of this presentation will be on the reasons for disinfection, the basic theory associated with chlorine disinfection and the mechanical components of chlorine systems found in small wastewater facilities. There will also be some discussion of the dechlorination process.

Filter Optimization Using Particle Counters

3:30 – 5:00 Weaver’s Room 1.5 credits - water

Camilo Denbrock & Matt Quattlebeum, Chemtrak Systems, Inc.

This course will teach participants how to count and size particles in order to optimize treatment filters. A general overview will be given of filter types, performance measures, and common problems. Particle sensor technologies, sampling strategies, counting electronics, software and counting system maintenance will be covered. A demonstration will be given of how a particle counter works.

EPA Step Process: Strategic Planning for Water Systems

3:30 – 5:00 Turquoise Room .5 credits – water / wastewater

Christine Ageton & Tim Wellman, New Mexico Rural Water Association

The EPA Step Process: Strategic Planning for Water and Wastewater Systems course is designed to guide participants through the process of strategic planning for their utility using the EPA STEP (Simple Tools for Effective Performance) guide series. Participants will learn techniques and methods used by NMRWA staff to assist communities in planning for technical, managerial, and financial needs of their system.

Tuesday Morning**Diagnosing Well & Aquifer Problems**

8:00 – 9:00 Franciscan Ballroom 1 credit - water

Peter Balleau, Balleau Groundwater, Inc.

Well-water supply is subject to problems with the well and problems with the aquifer. Regular observation and tracking of well performance can provide data to identify the reason for well problems. The interpretive principles and examples are presented. In this talk, well construction, screen hydraulics and failing aquifers will be discussed.

NMED Construction Programs Funding

8:00 – 9:00 Alvarado F .5 credits – water / wastewater

Rebecca C. Fink, PE, NMED Construction Programs Bureau

This session identifies funding programs available through the New Mexico Environment Department - Construction Programs Bureau for eligible New Mexico entities. Funding is available to finance improvements to water, wastewater and solid waste systems.

Biomonitoring 101: WET Testing

8:00 – 9:00 Fireplace Room 1 credit – wastewater

D’Ann Wilkins, Wilkins Environmental Laboratories

Biomonitoring 101 is a general overview of the basics of biomonitoring. Biomonitoring is required for all dischargers that are classified as a major municipality or industry. Whole Effluent Toxicity testing is used to assess the potential toxicity of the effluent matrix. These

tests are utilized in addition to regular testing for conventional pollutants to assess the effluent as a measure of aquatic toxicity to biological life in the receiving stream. Communities in New Mexico that are planning to upgrade their facilities may need to plan for biomonitoring in the future. This is an advanced wastewater topic.

Mathematics for Water Operators

8:00 – 12:00 Alvarado G & H 3.5 credits - water

Michael Alvidrez, New Mexico Rural Water Association

This class is designed to help students overcome their fears with 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 at two levels: beginning and more advanced. Topics to be covered include conversions, well data, basic geometry, flows, pump calculations and disinfection dosages.

Introduction to the New Wastewater Study Guide

8:00 - 9:00 Potter's Room 1 credit - wastewater

Robert Gott, NMSU, Doña Ana Branch Community College, WUTAP

In this course, the development of the long awaited Wastewater Certification Study Guide will be discussed. How the studyguide can be used to improve performance on NM certification exams will be covered. The intended audience for this course is operators seeking help on passing the New Mexico wastewater certification exams.

Outreach: The Community Connection Using Project WET

8:00 – 12:00 Weaver's Room

Bryan Swain, NMSU-WERC

Andrew Sweetman, Pueblo of Santa Ana

Cheri Vogel, New Mexico Office of the State Engineer

Tim Wellman, New Mexico Rural Water Association

Join us to experience proven water education methods designed to reach and teach community leaders, teachers and youth groups. This ½ day workshop will present interactive water training activities focusing on water science, conservation, resource protection and more, with a special feature on coordinating and conducting a community water festival! Participants of this session will receive a copy of internationally recognized water education materials from Project WET (Water Education for Teachers). This workshop is limited to 20 persons. Sign up early at the registration booth to ensure your place.

Subdivision Water Availability in New Mexico

9:00 – 10:00 Franciscan Ballroom .5 credits - water

Peter Balleau, Balleau Groundwater, Inc.

This talk will describe the state and county requirement for demonstrating subdivision water availability from domestic or group wells, and from community water supplies.

USDA, Rural Development: What's New in RUS

9:00 – 10:00 Alvarado F .5 credits – water / wastewater

Clyde F. Hudson, Martha Torrez, Lydia Gurule, & Sandra Alarcon, USDA Rural Development

Personnel from Rural Development's Rural Utilities Service section will provide an overview of their funding and program changes for Fiscal Year 2005. Topics discussed will include Agency reorganization under the Consistency Plan, FY 2005 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 RUS 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.

Daimler Chrysler Fleet Program

9:00 – 10:00 Fireplace Room

Shelley Meng, Sam Argo, Roy Lea & Jake Brito, Melloy Dodge

This class will introduce the program rules and Dodge's vehicle lineup under the new NMRWA fleet purchase program. A panel of vehicle experts will discuss model safety and security, utility, value, performance, and styling features. Vehicle Lineup: Neon, Stratus, Magnum, Caravan, Durango, Dakota, Rams (1500/2500/3500). Our panel will be there to assist you in selecting the model(s) that best suit your "on-the-job" needs and desires.

How to Successfully Take an Exam

9:00 – 10:00 Potter's Room 1 credit – water / wastewater

Robert Gott, NMSU, Doña Ana Branch Community College, WUTAP

This course discusses the difficulties faced by many students as they actually sit down and complete the NM water and wastewater certification exams. The course attempts to provide examinees with an understanding of test taking strategies and give them skills that will help them perform better on any test. The intended audience is anyone who wants a better understanding of test taking strategies.

Disinfection Alternatives

10:30 – 12:00 Turquoise Room 1.5 credits - water

Don Iwanski, PPG Industries

The presentation compares the advantages and disadvantages of using gas, bleach, on-site chlorine generation, and tablet chlorination alternatives for water disinfection. A simple Excel spreadsheet is presented that allows the user to compare the relative economics of using these various technologies.

Ground Water Injection & Infiltration: Incorporating into Water Planning

10:30 – 12:00 Alvarado F .5 credits - water

Jeffrey H. Albright, Lewis and Roca Jontz Dawe LLP

The presentation will cover current statutes that permit ground water injection, rules and regulations at the OSE for ground water injection permit approvals, key hydrogeologic and practical considerations, and environmental considerations. The presentation will conclude with incorporating ground water injection/infiltration projects into municipal and regional water plans.

NEPA Review Process

10:30 – 12:00 Fireplace Room .5 credits water / wastewater

Jim Chiasson, NMED Construction Programs Bureau

Learn the steps necessary to comply with EPA's requirements in order to avoid delays and correctly move forward with your project. This session will address what should be included in the Environmental Information Document, which state and federal agencies should be consulted regarding the project, and the required timeline and notification periods.

Basic Wastewater Mathematics - Levels I & II

10:30 – 12:00 Potter's Room 1.5 credits - wastewater

Arnie Castaneda, Town of Mesilla

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 level I and level II wastewater operator certification exams. Handouts and reference materials will be provided.

Tuesday Afternoon

Please attend the New Mexico Rural Water Association Annual Membership Meeting if you are a voting delegate for your water system. Your participation makes our Association stronger! Conference attendees may also attend the Exhibit Hall Demonstration Classes to get hands-on training in the latest technology. **You must preregister** for these classes, please refer to page 3 for details.

Wednesday Morning

Arsenic Water Technology Partnership

8:00 – 10:00 Franciscan Ballroom 1 credit - water

Brian Dwyer & Malcolm Siegal, Sandia National Laboratory

Chris Campbell, Abbas Ghassemi & Bryan Swain, NMSU-WERC

The Partnership is supported with \$10M in congressional appropriations through Department of Energy with the Awwa Research Foundation (AwwaRF) providing more than \$1.9M in cash and cost-sharing. The Partnership is a multi-year effort that moves technologies from bench-scale to demonstration with assistance being provided to utilities on implementation. This program will enable water utilities, particularly those serving small, rural communities and Indian tribes, to implement the most cost-effective solutions to their arsenic treatment needs.

Basic Tools and Skills for Collaboration and Consensus Building

8:00 – 10:00 Alvarado F

*Christine Ageton, New Mexico Rural Water Association**Sarah Palmer, US Institute for Environmental Conflict Resolution*

Group interactions can be challenging, especially when discussing issues that impact people's lifeways, such as water delivery and cost. This interactive session offers an overview of the key skills valuable in enhancing communications, understanding group dynamics, and the basics of effectively promoting collaboration and consensus building. This class will offer useful skills for internal operations and customer relations for system managers, administrators and board members of Tribal and non-Tribal systems.

New Mexico Excavation Law & Safe Digging Practices

8:00 – 12:00 Alvarado G & H 3.5 credits – water / wastewater

Gary R. Sloman, New Mexico One Call

This course provides an indepth look at compliance with the excavation law in layman's terms and how to expose existing underground utilities safely. The class clearly outlines the responsibilities of excavators, facility owners and one call centers. A free comprehensive student manual is provided. A certificate is issued by the PRC upon successful completion of the class. Three CEUs are available to class participants.

Activated Sludge Process Control

8:00 – 10:00 Potter's Room 2 credits – wastewater

Ege Richardson, Aegean Consulting LLC

In this class, basic activated sludge process variables, including sludge age, food-to-microorganism ratio, sludge volume index, and required RAS flowrates will be reviewed. The effects of these process variables on the system performance will be discussed. The class will include presentation of various treatment plant data for which the students will be asked to troubleshoot. Basic knowledge of activated sludge process control variables is required.

New Installment Purchase Financing Options for Water Storage Tanks

8:00 – 9:30 Weaver's Room .5 credits - water

Randall (Randy) L. Moore, Utility Service Company, Inc.

Lease purchase, or installment purchase financing, for essential capital equipment is not a new concept to municipalities and other governmental units which qualify for tax exempt status. Recently, this concept has been expanded to include the acquisition of potable water storage tanks offering a bundled package of all financial, construction, engineering and maintenance services needed. Installment purchase financing only requires Council/Board approval and offers 100% financing, tax exempt interest rates, flexible payment schedules and terms, and ownership vests with the municipality. This bundled approach to financing of water storage tanks results in a faster, simplified, cost effective alternative to paying cash or issuing bonds.

The Fine Points of Hiring an Engineer

8:00 – 10:00 Turquoise Room 1 credit – water / wastewater

Richard Rose, NMED Construction Programs Bureau

Learn the fine points of hiring an engineer for professional services. This class will cover the entire process, from determining the project scope, preparing the RFP, ranking the proposals, and negotiating the contract.

Antennas on Water Storage Tanks: Do's and Don'ts

9:30 – 10:00 Weaver's Room .5 credits - water

Randall (Randy) L. Moore, Utility Service Company, Inc.

Antennas on water storage tanks have become an attractive source of revenue for tank owners. However, there is a right way and a wrong way to install antennas on tanks. Improper antenna installations can interfere with the maintenance and operation of the tank and actually end up costing the tank owner money in the long run. This presentation will review the correct way to install antennas on water tanks. Various vendors offering communications site management services to tank owners and the pro's and con's of these programs will be discussed as well.

Protecting the Territory of Federally Indebted Water Systems using 1926(b)

10:30 – 12:00 Franciscan Ballroom

Michael D. Davis, Doyle Harris Davis & Haughey

Title 7 USC §1926(b) was enacted by the United States Congress to encourage the development of rural water systems throughout the United States, to enable federally indebted water associations to provide a cost effective and safe supply of water to rural residents and to provide a secure means to repay government loans. This statute grants federally indebted water systems complete exclusivity in selling water within their service area. Since the enactment of §1926(b), federally indebted water systems have been compelled to file suit in Federal Court to enforce their lawful right to be the exclusive water service provider within their service area.

Basic Tools & Skills for Understanding & Managing Conflict

10:30 – 12:00 Alvarado F

*Christine Ageton, New Mexico Rural Water Association**Sarah Palmer, US Institute for Environmental Conflict Resolution*

“Whiskey’s for drinking and water’s for fighting.” This famous quote rings true in much of New Mexico. Most Tribal and non-Tribal systems have experienced the occasional disagreement between board members, managers, and/or water customers. This interactive session offers an overview of basic skills for understanding and managing conflict in ways that seek mutually acceptable solutions. This class will offer useful skills for internal operations and customer relations for system managers, administrators and board members of Tribal and non-Tribal systems.

Advanced Wastewater Mathematics - Levels III & IV

10:30 – 12:00 Potter's Room 1.5 credits - wastewater

Ege Richardson, Aegean Consulting LLC

In this class, calculation of wastewater process and design variables, including, but not limited to, sludge age, food-to-microorganism ratio, loadings, detention times, and overflow rates will be reviewed. The class will include presentation of a number of wastewater problems and the solutions will be provided. Basic knowledge of activated sludge process control and basic math skills will be required. Students are asked to bring their calculators.

The Aquifer Pumping Test: What is it & Why Would You Want to Perform One on your Well?

10:30 – 12:00 Weaver’s Room 1.5 credits - water

Annie McCoy, John Shomaker and Associates

Aquifer pumping tests can 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, to loss of well efficiency, or to declining water levels. Every new well should be carefully tested to provide baseline performance data for later comparison. When performing aquifer pumping tests on existing wells or newly-drilled exploratory wells, the aquifer is stressed and precise drawdown and recovery measurements are made in order to estimate aquifer characteristics and determine well efficiency.

Consumer Confidence Report Workshop

10:30 – 12:00 Turquoise Room .5 credits - water

Andrew Sweetman, Pueblo of Santa Ana

Water suppliers that serve the same people year-round must prepare annual Consumer Confidence Reports (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.

Wednesday Afternoon

Rates and Records: Informed Decision-Making & Rural Water Rate Survey Results

1:30 – 3:00 Franciscan Ballroom .5 credits – water / wastewater

Tracy Svanda, New Mexico Rural Water Association

Setting appropriate water and wastewater rates demands having good records available. This session ensures that you will begin with the right records and information, and then understand how to put them to work in your rate study and development of a new schedule of rates and fees. Different methods of structuring rates will be covered as well as determining the social goals that influence your rate and fee schedule. Finally, the results of the NMRWA small utility rate survey will be presented.

Arsenic Rule Exemption Process

1:30 – 3:00 Alvarado F 1.5 credits - water

Charles Thomas, NMED Drinking Water Bureau

On January 23, 2001, the Environmental Protection Agency (EPA) reduced the drinking water maximum contaminant level (MCL) for arsenic from 50 ppb to 10 ppb. The compliance date for the revised arsenic MCL is January 23, 2006. The Drinking Water Bureau of the NM Environment Department has developed an arsenic compliance strategy that can provide water systems additional time or tools to comply with the new arsenic standard without being out of compliance. This presentation will provide a thorough overview of how to obtain an extension of time; the information that public water systems will need to obtain; critical dates and deadlines for the entire process; and examples of existing exemptions.

Safety Measures for Commercial Diving Operations

1:30 – 3:00 Alvarado G & H 1.5 credits - water

Ross Saxon, Association of Diving Contractors International

This course will cover the Best Industry Practice to ensure compliance while maximizing safety and minimizing risk during the conduct of all forms of underwater operations. The presentation will focus on the success of industry in reducing accidents, improving efficiency, and measures necessary to ensure reliability of performance. At the end of the session, participants will be able to understand what is and what is not commercial diving under the regulatory requirements, the steps necessary to develop a request for quotation, and know how to locate a qualified commercial diving or underwater service company to meet job scope requirements.

Nitrogen Removal in Lagoons

1:30 – 3:00 Potter's Room 1.5 credits - wastewater

W. Daniel Boivin, Smith Engineering Company

Lagoons are excellent wastewater treatment options for small communities, but they are poor at removing nitrogen. This class will review the available options to a community when nitrogen is the contaminant of most concern.

AWWA Standard C-153 - Ductile Iron Water Main Fittings

1:30 – 3:00 Weaver's Room 1.5 credits – water

Roger Wells, Tyler Pipe

This course will be a discussion of AWWA Standard C-153, ductile iron water main fittings. The instructor will discuss the general requirements of the standard including coatings and linings, tolerances, strength of metal, and test requirements and procedures. He will also show how the fittings are manufactured including making molds, pouring iron and various operations such as cement lining and coatings.

How to Work Effectively with the New Mexico State Legislature

1:30 – 3:00 Turquoise Room

H. Diane Snyder, New Mexico State Senator

New Mexico is fortunate – and unique – in having a citizen Legislature. None of the 112 members are paid, and only receive expense reimbursement set in the State Constitution. The New Mexico Legislature is comprised of persons who work at other jobs most of the year and who bring those practical experiences of daily New Mexican life with them when they meet annually in Santa Fe. Senator Snyder will share her experience of working in the Roundhouse and serving on the Water and Natural Resources Interim Committee.

Water and Wastewater Security using SEMS

3:30 – 5:00 Franciscan Ballroom 1.5 credits water / wastewater

Tim Wellman, New Mexico Rural Water Association

The Water and Wastewater System Security Using the SEMS Software is a course designed to give participants the opportunity to view the SEMS software in action. Using an invented community, participants will navigate through the various data entry screens, filling in the required information for a water or waste water vulnerability assessment. By following along through the software screens participants will be able to ask site specific questions about security, vulnerability and emergency preparedness.

Water System Construction: Regulatory Requirements

3:30 – 4:30 Alvarado F 1 credit – water

Chuck Thomas, NMED Drinking Water Bureau

This class will provide an update of the Engineering Program in the Drinking Water Bureau. Staff will review what is required of Public Water Systems, identify which projects need Department approval, review the application process, and provide recommendations on hiring engineering services and developing good projects.

Introduction to Electrical Control Panels

3:30 – 5:00 Alvarado G & H 1.5 credits – water / wastewater

Bob Kozojet, CBM Mechanical Services

This presentation will introduce participants to electrical control symbols and electrical diagrams (schematics) that govern the operation of both water and wastewater electrical control circuits. Topics to be discussed include control panel components, their function and operation. Questions from class attendees are welcome.

Process for Obtaining NPDES Primacy

3:30 – 5:00 Potter's Room 1.5 credits - wastewater

Steven M. Baumgarn, NMED Surface Water Quality Bureau

This class will discuss the history of the effort to obtain primacy of the NPDES permit program. A discussion of the evolution of the program development and how it has changed from its original inception will be included. An introduction of a timeline for accepting the program will be discussed. An overview of what changes will be made to the program and what affect these changes will have on the individual permittee. A discussion of how the public can help in this effort will also be included.

Introduction to Basic Supervisor Control and Data Acquisition Systems

3:30 – 5:00 Weaver’s Room 1.5 credits – water / wastewater

Preston E. Patterson, I&C Solutions, LLC

This class will cover the basic theory and practical implementation of an entry level remote control and system monitoring strategy. It will include a checklist and equipment shopping list for those who wish to move forward with a project.

Conservation Easements: A Tool for Land Protection

3:30 – 5:00 Turquoise Room .5 credits – water

William C. (Bill) Miller, Rodeo Mutual Domestic Water Association

Attend this course to learn about conservation easements: what they are, and how they affect the land. Easements are a tool to achieve the preservation of open space, to assure wildlife corridors, to protect watersheds, and to reduce the risk of contamination. You will learn what it takes to enter into a conservation easement, how the donation of easements or purchase of development rights works, and the restrictions that will be placed on the land.

Drinking Water Program Update

4:30 – 5:00 Alvarado F .5 credits – water

Fernando Martinez, NMED Drinking Water Bureau

This class will provide an update of the status of the Drinking Water Program in New Mexico, including any changes to the existing Drinking Water Regulations, both state and federal.