

**Illinois Section
American
Water Works Association**

Training - 2007



New Inside...

- Portal Release isawwa-portal.com
- Public Information Outreach

Training: 2007

The resource for seminars, workshops , video rental library and teleconferences.

We may add or make changes from time to time, so be sure to check the website at <http://www.isawwa.org> or the new Illinois Section Portal at <http://www.isawwa-portal.com>

General Information

Renewal Training Credits: All of the courses listed in this book are approved for renewal training credits (RTC). For in-person seminars, the credit is based upon actual classroom time. If the seminar goes over or under the estimated time, or if you leave early, your credit hours will be adjusted on your certificate. For video rentals a simple test will accompany your video. After you complete and return the test to the Illinois Section AWWA office, a certificate will be mailed to you reflecting the renewal training credit hours earned. The amount earned will be equal to the length of the video(s) that you have viewed.

Professional Development Hours - Classes that apply to your area of study should qualify for Professional Development Hours. It shall be the responsibility of a licensee to maintain a record of PDHs for 6 years that includes, but is not limited to, the following: The name and address of the sponsor or provider, the number of hours attended in each program, the date and place of the program and a certificate of attendance; or log of activities that includes the date and number of hours claimed as PDHs, a brief statement of the subject matter, printed program schedules, registration receipts or other proof of participation. A certificate will be mailed confirming participation and time spent in classroom. It is up to the licensee to maintain their own records and submit any required paperwork to validate training.

Method of delivery: There are several choices by which to earn your renewal training credits. The Illinois Section AWWA offers the following opportunities: classroom, teleconferences, video library for individual viewing, or group study.

Registration: Register by fax with purchase order or Mastercard, AMEX or Visa . Fax number is toll free 866-521-3591. Register on-line at the ISAWWA website at <http://www.isawwa.org> Register via US mail by sending your registration form and payment of check, Mastercard/Visa, AMEX or purchase order to: ISAWWA, 535 Yorkshire Drive, Dekalb, IL 60115

Questions can be directed by phone to Laurie at 866-521-3595 or email laurie@isawwa.org

Certificates: Certificates are generally mailed 2-4 weeks after completion of seminar series, after the last seminar has been given.

Refunds: In order to be eligible for a refund, cancellations must be received 48 hours prior to seminar. Substitutions are allowed and refunds without prior notice will be granted for emergency situations when requested in writing.

CALENDAR AT A GLANCE

<u>DATE</u>	<u>Pg</u>	<u>TOPIC</u>	<u>LOCATION</u>
January 9	20	Meters A to Z	Elgin
January 10	24	Tanks, Evaluation, Maintenance and Safely Accessing	Springfield
January 16	7	Taste and Odor Control for Surface Water	Peru
January 16	11	Ozone in Drinking Water Treatment	Lake Bluff
January 18	17	Basic Well Systems and Sampling Techniques	Fairbury
January 23	17	Basic Well Systems and Sampling Techniques	Rockford
January 25	7	IDSE Training - half day	Rochelle
January 30	23	Joint Restraint Application and Design (webstream lunch)	Your Office
February 1	12	Math and Chemistry for Water Plant Operators	Countryside
Feb. 6 & 13	6	Basic Water Operations and Treatment - evenings 6-9pm	Crystal Lake
February 7	18	Basic Well Systems and Sampling Techniques	West Chicago
February 27	14	Electrical Safety for Water Workers and NFPA 70	Naperville
February 28	15	Surface Water Production	Joliet
March 1	9	Controlling Pressue Transients in Water	Libertyville
March 6	22	How Eliminating Wires Can Save You Money (webstream lunch)	Your Office
March 8	40	AWWA Teleconference Pipeline Repair (downlink or webstream)	Springfield
March 8	40	AWWA Teleconference Pipeline Repair (downlink or webstream)	Edwardsville
March 13-15		Illinois Section AWWA Annual Conference & Expo	Springfield
March 28	15	Surface Water Production	Mt. Vernon
April 5	33	Water Loss Assessment	Countryside
April 10	18	Basic Well Systems and Sampling Techniques	Joliet
April 18	32	Cross Connection & Backflow Prevention	Mt. Vernon
April 19	39	NIMS Training - IS 700, 100 and 200	Elgin
April 24	25	Chlorine Feed Equipment O & M	Libertyville
April 25	25	Chlorine Feed Equipment O & M	East Peoria
April 26	16	Operator C & D Review Course	Waukegan
May 2	13	Water Accountability M36 - Water Wiser - (half day)	Joliet
May 3	21	Understanding Water Hammer Surge in Distribution Systems	Naperville
May 7	19	Cathodic Protection and Corrosion Control	Waukegan
May 8	38	Water Infrasture Security Guidelines/WISE-	Countryside
May 8	7	Taste and Odor for Surface Water	Mt. Vernon
May 8	30	Watershed Protection	Fairbury
May 9	38	Water Infrasture Security Guidelines/WISE-	Springfield
May 9	16	Operator C & D Review Course	Rochelle
May 14	31	Electrical and Hydraulic Basics	Rockford
May 22	10	Modern Scada Design	Crystal Lake
May 24	32	Cross Connection and Backflow Prevention	Rochelle
June 5	28	Control Valves - Maint. Operation & Troubleshooting	Libertyville
June 5	29	Simplified Procedures for Water Labs (M12)	East St. Louis
June 6	39	NIMS Training - IS 700, 100 and 200	Naperville
June 7	5	Community Water Fluoridation - half day	Springfield
June 11	39	NIMS Training - IS 700, 100 and 200	Fairbury
June 12	36	Gimmicks and Gadgets	Waukegan
June 19	28	Control Valves - Maint. Operation & Troubleshooting	Fairbury
July 30	12	Locating Buried Water Lines - half day	Naperville
August 7	29	Annual Water Infrastructure and Homeland Security	Countryside
August 14	34	Engine- Generator Systems	Libertyville
August 23	37	H2O 101	Rockford
August 30	35	Construction Specifications, Blueprints and Shop Drawings for Oper.	Countryside
September 6	35	Construction Specifications, Blueprints and Shop Drawings for Oper.	East St. Louis
September 18	20	Meters A to Z	Mt. Vernon
September 25	26	Chemistry of Iron and Manganese - Ion Exchange (half day)	Rochelle
September 26	26	Chemistry of Iron and Magnanese - Ion Exchange (half day)	Joliet
September 27	27	Regulatory Update	Elgin
September 28	26	Chemistry of Iron and Manganese - Ion Exchange (half day)	Mt. Vernon
October 3	8	Information Management & Technology Conference	Countryside

AWWA National Seminars - call 303-794-7711 to register

October 25 Water 101 for Sales, Marketing, & Public Relations Chicago

Please check the seminar(s) you will be attending. Use one sheet per person or attach additional detail on separate sheets.

REGISTRATION FORM - REGISTRATION FORM - REGISTRATION FORM

Registration - Use one form per person.

Name: _____
 Company/Utility: _____
 Address: _____
 City: _____ State: _____
 Zip: _____ AWWA member no.: _____
 Phone: _____ Fax: _____
 Email: _____

Payment Information:
 Check enclosed made payable to: ISAWWA
 Purchase order number: _____
 Mastercard, Visa or American Express
 Name on Card: _____
 Card #: _____
 Exp Date: _____ Signed: _____

Date	Topic - City - member rate/non member rate
___ 09-Jan	Meters A to Z - Elgin - \$35/\$50
___ 10-Jan	Tanks, Evaluation, Maint. & Assessing - Springfield - \$35/\$50
___ 16-Jan	Taste and Odor for Surface Water - Peru - \$35/\$50
___ 16-Jan	Ozone in Drinking Water Treatment - Lake Bluff - \$35/\$50 - optional book \$69.00 - January 16th
___ 18-Jan	Basic Well Systems & Sampling Tech. - Fairbury - \$35/\$50
___ 23-Jan	Basic Well Systems & Sampling Tech. - Rockford - \$35/\$50
___ 25-Jan	IDSE Training - Rochelle (half day) - \$25/\$25
___ 30-Jan	Joint Restraint App. & Design (webstream) - \$5/\$10
___ 1-Feb	Math & Chemistry for Operators - Countryside - \$35/\$50
___ 6-Feb	Basic Water Oper. and Treatment - 6-9pm 2-6 & 2-13 - \$35/\$50
___ 7-Feb	Basic Well Sys. and Sampling Techn.- West. Chicago - \$35/\$50
___ 27-Feb	Elec.Safety for and NFPA 70 - Naperville - \$35/\$50
___ 28-Feb	Surface Water Production - Joliet - \$35/\$50
___ 1-March	Controlling Pressure Transients in Water - Libertyville - \$35/\$50
___ 6-March	How Eliminating Wires Can Save You \$\$\$\$ (internet) - \$5/\$10
___ 8-March	Pipeline Repair Telec. - Springfield or Edwardsville \$60/\$75
___ 8-March	Pipeline Repair Telec.- webstream at your office \$45
___ 28-March	Surface Water Production - Mt. Vernon - \$35/\$50
___ 5-April	Water Loss Assessment - Countryside - \$35/\$50
___ 10-April	Basic Well Sys.and Sampling Techniques - Joliet - \$35/\$50
___ 18-April	Cross Connection & Backflow Prevention- Mt. Vernon - \$35/\$50
___ 24-April	Chlorine Feed Equipment O & M - Libertyville - \$35/\$50
___ 25-April	Chlorine Feed Equipment O & M - East Peoria - \$35/\$50
___ 26-April	Operator C & D Review Course - Waukegan - \$35/\$50
___ 2-May	Water Accountability - Water Wiser - Joliet (half day) - \$25/\$35
___ 3-May	Water Hammer Surge in Dist. Sys. - Naperville - \$35/\$50
___ 7-May	Cathodic Protection and Corr. Control - Waukegan - \$35/\$50
___ 8-May	Water Infrasture Security Guidelines/WISE- Countryside \$35/\$50
___ 8-May	Taste and Odor for Surface Water - Mt. Vernon - \$35/\$50
___ 8-May	Watershed Protection - Fairbury - \$35/\$50
___ 9-May	Water Infrasture Security Guidelines/WISE- Springfield \$35/\$50
___ 9-May	Operator C & D Review Course - Rochelle - \$35/\$50
___ 14-May	Electrical and Hydraulic Basics - Rockford - \$35/\$50
___ 22-May	Modern Scada Design - Crystal Lake - \$35/\$50
___ 24-May	Cross Connection and Backflow Prev. - Rochelle - \$35/\$50
___ 5-June	Cont.Valves - Maint. Oper. & Trblshooting-Libertyville - \$35/\$50
___ 5-June	Simp.Proc.for Water Labs (M12) - East. St. Louis - \$35/\$50
___ 6-June	NIMS Training - IS 700, 100 and 200 - Naperville -\$35/\$50
___ 7-June	Community Water Flouridation - Springfield (half day) - \$25/\$35
___ 11-June	NIMS Training - IS 700, 100 and 200 - Fairbury -\$35/\$50
___ 12-June	Gimmicks and Gadgets - Waukegan - \$25/\$35
___ 19-June	Cont.Valves - Maint. Oper. & Trblshooting - Fairbury - \$35/\$50
___ 30-July	Locating Buried Water Lines - Naperville (half day) - \$25/\$35
___ 7-Aug	Annual Water Inf. & Homeland Sec. - Countryside - \$35/\$50
___ 14-Aug	Engine-Generator Systems- Libertyville - \$35/\$50
___ 23-Aug	H2O 101 - Rockford - \$35/\$50
___ 30-Aug	Const. Specs, Blueprints and Drawings - Countryside - \$35/\$50
___ 6-Sept	Const. Specs, Blueprints and Drawings - E.St. Louis - \$35/\$50
___ 18-Sept.	Meters A to Z - Mt. Vernon - \$35/\$50
___ 25-Sept.	Chem. of Iron and Mang.- Ion Exchange-Rochelle - \$25/\$35
___ 26-Sept.	Chem. of Iron and Mang.- Ion Exchange-Joliet - \$25/\$35
___ 27-Sept.	Regulatory Update - Elgin - \$35/\$50
___ 28-Sept.	Chem. of Iron and Mang.- Ion Exchange-Mt. Vernon - \$25/\$35
___ 03-Oct.	Information Management & Technology - Countryside - \$50/\$75

_____ seminars \$ _____ total due

To Register: Fax your registration form with credit card or purchase order information to toll free 866-521-3591 or mail your check, purchase order or credit card payment to: ISAWWA, 535 Yorkshire Drive, Dekalb, IL 60115 You may also register online at www.isawwa.org Onsite registrations will be charged the non-member rate.

COMMUNITY WATER FLUORIDATION

Half Day Seminar

Registration

8:30 am. Earn up to 3 renewal training credit Hours or professional development hours. Continental breakfast and lunch included - seminar to conclude by 12:00 pm

Description

Technical session begins in the morning at 9:00 am. This course will provide the community water system operator the skills to maintain water fluoridation levels within legal range and to comply with Illinois Department of Public Health and Illinois Environmental Protection Agency Fluoridation Rules, as well as build appreciation of the oral health benefits of water fluoridation for the communities they serve.

Agenda:

9:00 - 9:45	Fluoridation and Public Health/Illinois State Fluoridation Program
9:45 - 10:15	Fluoride Chemicals
10:15 - 10:45	Fluoridation Equipment
10:45 - 11:30	Operator Safety
11:30 - 12:00	Question and Answer Session

By the end of this course the community water system operators will be able to:

1. Cite the Illinois Fluoridation Act and Rules Administering the Act.
2. Describe the oral health benefit of fluoridation.
3. Understand the safety precautions for using fluoridation equipment.
4. Use appropriate fluoridation feed rate calculation formulas.
5. Choose the most effective and efficient fluoride testing equipment for their operation.

Speakers

Guest Speaker to be determined, Illinois Department of Public Health, Division of Oral Health Staff, Illinois Environmental Protection Agency,

Dates and Locations

June - 7th - CMT Training Room - 2750 W. Washington St., Springfield. phone 217-787-8050

Cost

\$25.00 for AWWA Members and \$35.00 for non-members or onsite registration.

BASIC WATER OPERATIONS AND TREATMENT

TWO EVENINGS - 6PM - 9PM

Registration

Pre-register online or toll free at 866-521-3595 prior to first session. Sessions begin at 6:00 pm and end at 9:00 pm and will meet for two sessions. You must sign up for both sessions. Earn up to 6 renewal training credits or PDH's for both sessions.

Description

Topics to be covered include: electrical maintenance, water storage, distribution pumps and pumping, disinfection and bacteriology, sampling and reporting and related math. This course must be taken in two sessions in order to cover all of the Class D topics listed.

Speakers

Brian Anderson - Baxter and Woodman Consulting Engineers.

Brian joined Baxter & Woodman Consulting Engineers in 2003. He serves the firm's municipal clientele in water and wastewater system operations, maintenance, planning assistance, and trouble-shooting.

Prior to that, he worked for the Village of Buffalo Grove's Water and Sewer Department for eleven years ending his tenure there as the water and sewer field supervisor. There he was in charge of the distribution, pumping and collection of the Village's water and wastewater system.

Brian has been a longtime member of the North Suburban Water Works Association as well as the AWWA. Those, along with membership in the Fox Valley Operators Association, keep Brian up to date on the new developments in the operations and maintenance of water and wastewater facilities.

Professional Certifications

Illinois Environmental Protection Agency Water Operators Certification

Class A - Illinois Environmental Protection Agency Waste Water Operators Certification

Wastewater Treatment Works OIT

Wisconsin Department of Natural Resources Water Operators Certification

Distribution Grade 1

Groundwater Grade 1

Iron Removal Grade 1

VOC Removal Grade 1

Dates and Locations

February 6 and 13 - 6pm to 9pm. McHenry College Satellite Campus. 100 South Main St., Crystal Lake.

Cost

\$35.00 for AWWA Members and \$50.00 for non-members for both sessions.

IDSE TRAINING - PRESENTED BY USEPA HALF - DAY SESSION

Registration

Registration begins at 8:30 am - seminar starts at 9:00 am. Earn up to 3.5 renewal training credit or pdh's by attending the entire seminar.

Agenda - Stage 2 DBPR

9:00 am	Rule overview
9:15 am	IDSE Requirements
10:30 am	Break
10:45 am	IDSE Tool
11:00 am	40/30 Waivers
12:15 pm	Very Small System Waivers
12:30 pm	Question and Answers

Dates and Locations

January 25 - Hickory Grove Conference Center - 1127 N. 7th St., Rochelle - phone 815-562-5668

Speaker

Miguel A. Del Toral, USEPA Regulations Manager, Ground Water and Drinking Water Branch, USEPA Region 5, 77 W. Jackson Blvd., (WG-15J), Chicago, IL 60604 312-886-5253

Costs \$25.00 for members or non members.

TASTE AND ODOR CONTROL FOR SURFACE WATER SYSTEMS

Registration

Registration begins at 8:30 am - seminar starts at 9:00 am. Earn up to 5.0 renewal training credit or pdh's by attending the entire seminar.

Description

Surface water treatment systems throughout Illinois have historically had to deal with seasonal taste and odor problems. The taste and odor may be due to seasonal lake turnover or algae die-off which are out of the operator's control, but the end user still expects the same level of quality from the tap. This seminar will present odor control options for surface water treatment systems including powdered activated carbon, permanganate, and ozone.

Speakers

Christy Crites, CMT Engineers
Jim Lange, City of Mattoon
Bill Bosler, Water Plant Superintendent, City of Charleston
John Boll and Tim Postula, Carus Chemical

Dates and Locations

January 16 - Peru - Carus Chemical Training Room, 315 Fifth St., phone 815-223-1500
May 8 - Mt. Vernon - Holiday Inn - 222 Potomac Blvd., phone 618-244-7100

Costs \$35.00 for members \$50.00 for non members or onsite registration.

INFORMATION MANAGEMENT & TECHNOLOGY

Registration

8:30 am registration - Seminar starts at 9am

Earn up to 5.5 renewal training credit hours or professional development hours

Continental breakfast and lunch included - seminar to conclude by 4:00 pm

Description

Technical session begins in the morning at 9:00 a.m. Technical sessions from previous years were:

- Cyber Security, Spam/Antivirus/Spyware
- Remote Instrumentation
- Preventative Maintenance
- SCADA Technology
- Web Based SCADA
- Secure Remote Access Over the Internet
- Educational presentation on the differences between the Ethernet and the controlnet
- GIS implementation case study

Visit the tabletop exhibits during the extended lunch break.

Speakers

The Committee is contacting speakers. If you are interested in making a presentation, submit an abstract by June 1, 2007. Please limit submittals to 300 words or less. Submittals should be e-mailed to: laurie@isawwa.org. Questions can be directed to Carl Seifried at (312) 372-3405 or carl.seifried@we-inc.com. The Technical Program Committee will meet in June to finalize the program.

Dates and Locations

October 3 - Countryside - Park Place of Countryside - 6240 Joliet Road - phone 708-588-1756 for directions.

Costs

\$50.00 for members and non members \$75.00

\$75.00 for table top exhibit - includes one exhibitor person

Sign Up for Table Top Exhibit

Table top exhibits are available for \$75.00 per display. This entitles one exhibit personnel. Participants will be able to visit table top exhibits prior to the workshop, during breaks and lunch. Electricity will be furnished but exhibitors are requested to bring their own power strip and heavy duty extension cord.

Table top registration:

Contact Name _____

Company _____

Address _____

City, State, Zip _____

Phone: _____

Fax: _____

Email _____

Checks, credit card payments and purchase orders will be accepted via fax, email or US mail. Send payment to Illinois Section AWWA, 535 Yorkshire Dr., Dekalb, IL 60115 Fax toll free 866-521-3591. Additional personnel can be registered at \$50.00 per person.

CONTROLLING PRESSURE/VACUUM TRANSIENTS IN WATER

Registration

8:30 am registration - Seminar starts at 9am

Earn up to 4 renewal training credit Hours or professional development hours

Continental breakfast and lunch included - seminar to conclude by 1:00 pm

Description

Damage that pressure transients can cause to water mains is well documented. Less well known is the damage caused by vacuum transients and how to predict them. Surge modeling can be used to detect potential damaging transients, and to evaluate corrective actions. Corrective actions could include installation of passive surge tanks to protect mains from damaging forces especially during power failures.

Recent research has shown that surge anticipation valves may not react in time where passive surge tanks can give energy to modulate transient vacuum conditions, even during power outages. US EPA has indicated growing concern about transient vacuum conditions that could lead to contaminated water infiltration into drinking water distribution systems. AWWARF is currently funding research on how best to address this issue.

The seminar will consist of 3 presentations and a panel discussion. The panel will include owners and operators of water distribution systems who have experience with transients and their control. A conference notebook will be available.

Agenda

1. Transients – Causes of pressure and vacuum transients, video showing damaging transients, detection, and control methods. Presenter: **Tim Holbrook**, P.E. IFE,
2. AWWARF Research Update – Update of current research funded by AWWARF on negative transients susceptibility and surge modeling **Mark LeChevallier**, Director of Research American Water
3. Modeling transients – Model set up, data required, examples for detecting transients, and for predicting the benefits of control measures. Presenter: **Bill Gilbert**, University of KY
4. Surge tank Case Studies Panel, 10 min each, 3 panel members sharing their experiences with transients and control measures implemented to control them.

Panelists

Darrell King, Water Plant Superintendent, City of North Chicago

Mike Kosterman, City of Racine, WI

Robert Madura, Central Lake County JAWA

Dates and Locations

March 1 - Libertyville - Sports Complex - Route 45 & Peterson Road - phone 847-367-1502

Costs

\$35.00 for members and non members \$50.00

MODERN SCADA DESIGN

Registration

8:30 am registration - Seminar starts at 9am

Earn up to 5.5 renewal training credit hours or professional development hours

Continental breakfast and lunch included - seminar to conclude by 4:00 pm

Description

Learn what goes into making SCADA a successful investment for your utility. The class focus will be on what management & operations need to know to make smart decisions on installing or upgrading a SCADA system. We'll briefly cover the basics of everything that goes into SCADA and spend more time discussing some of the not-so-easy decisions you'll have to make with SCADA design. The instructor will really push the "real-world" scenarios and have lots of case studies in Illinois and Wisconsin of what your neighbors are actually doing with SCADA. You will definitely not be bored and you will not go home without having a good handle on SCADA design.

Outline:

- Sensors & meters
- Programmable Logic Controllers (how to specify, what to buy for master & remotes)
- Wireless options (Serial vs. Ethernet)
- SCADA Servers (hardware and software, and reporting choices)
- Remote access (Laptops, Phone, Email, PDA/Phones)
- To Bid or Not to Bid... Selecting an Integrator

Dates and Locations

May 22 -Crystal Lake - McHenry College satellite campus. 100 South Main St.,

Speaker

Christopher T. Sosnowski, P.E., Baxter & Woodman Engineers, Inc.

Chris received his B.S in Civil Engineering from the University of Illinois and his M.S. in Civil & Environmental Engineering from the University of Wisconsin. He is the manager of B&W Control Systems Integration (BWCSI), a wholly owned subsidiary of Baxter & Woodman, Inc. BWCSI, a certified Microsoft Partner, assists municipalities with a variety of technology-related decisions. Chris has consulted on projects including computer-based operations & maintenance, telemetry/radio system design, handheld data collection, automatic meter reading (AMR) applications, information security consulting, SCADA system design, municipal web-based implementations, GIS planning and design, as well as providing comprehensive technology training sessions. He is a member of the AWWA, WEF, Microsoft TechNet, and the Microsoft Developers Network.

Costs

\$35.00 for AWWA members

\$50.00 for non members

OZONE IN DRINKING WATER TREATMENT

Registration

8:30 am registration - Seminar starts at 9am

Earn up to 5.5 renewal training credit hours or professional development hours

Continental breakfast and lunch included - seminar to conclude by 4:00 pm

Description

Gain insight into application, design, operation, control, and optimization of ozone facilities in drinking water treatment plants. This book is intended for use in several ways by various disciplines, including:

- Large and small water utilities that currently use ozone. The book is a resource for optimizing ozone performance in existing installations.
- Large and small water utilities that are considering ozone as a treatment process option. The book explains why and how ozone is currently being used and includes precautions.
- Design engineers who are involved with ozone system planning and design. The book presents important design, operation, and maintenance considerations.
- Laboratories and researchers that are involved with bench- or pilot-testing. The book describes how ozone is used in full-scale installations and describes scale-up issues.
- Regulatory agencies responsible for enforcement, design review, and inspections of plants that use ozone. The book explains the theory and practice of ozone operation and how ozone disinfection performance is measured, calculated, reported, and optimized.

Dates and Locations

January 16 - Lake Bluff - Central Lake County Joint Action Water Agency - 200 Rockland Road, 847-295-7788

Speakers

Robert Madura, Central Lake County Joint Action Water Agency

Robert has worked in water industry since 1983 for several water utilities in maintenance and operations. He is currently employed as the Maintenance Supervisor for the Central Lake County Joint Action Water Agency since 1991. Robert is a co-instructor for the Advanced Water Works Operations course at the College of Lake County and has presented several times at the ISAWWA Annual Conference on pump maintenance topics. Holds a Illinois Class A Public Water Supply Water Operators Certificate. Has an A.A.S in Mechanical Maintenance from the College of Lake County. Member of the ISAWWA Education Committee.

Bill Soucie, Central Lake County Joint Action Water Agency

Since 1995, Bill Soucie has served as the Water Quality Laboratory Supervisor at the Central Lake County Joint Action Water Agency in Lake Bluff, IL. Prior to that time he was a Research Chemist at Culligan International in Northbrook, IL. Bill is co-instructor for the Advanced Water Works Operations course at College of Lake County and he was co-presenter for the national AWWA webcast entitled Basic Operator Math. He holds an Illinois Class A Public Water Supply Operator certificate. He has a bachelors degree in Chemistry with a minor in mathematics from Western Illinois University in Macomb and a masters degree in Chemistry from Loyola Chicago.

Costs

\$35.00 for AWWA members \$50.00 for non members - Optional book (Ozone in Drinking Water Treatment: Process Design, Operation, and Optimization, Kerwin L. Rakness) for additional \$69.00 to be used as course materials. Indicate purchase of book on registration form.

MATH AND CHEMISTRY FOR WATER PLANT OPERATORS

Registration

8:30 am registration - Seminar starts at 9am

Earn up to 5.5 renewal training credit hours or professional development hours

Continental breakfast and lunch included - seminar to conclude by 3:00 pm

Description

Brush up on your basic water supply operator math and chemistry skills in this one day course. Math topics will include chemical feed pump dose and verification, water main and storage tank disinfection, and basic hydraulic calculations including water pressure and hydraulic detention time. Chemistry topics will include pH, alkalinity, hardness, chlorine, phosphate, iron and fluoride.

Speakers

Bill Soucie, Central Lake County Joint Action Water Agency

Since 1995, Bill Soucie has served as the Water Quality Laboratory Supervisor at the Central Lake County Joint Action Water Agency in Lake Bluff, IL. Prior to that time he was a Research Chemist at Culligan International in Northbrook, IL. Bill is co-instructor for the Advanced Water Works Operations course at College of Lake County and has been co-presenter for the national AWWA webcast entitled Basic Operator Math. He holds an Illinois Class A Public Water Supply Operator certificate. He has a bachelors degree in Chemistry with a minor in mathematics from Western Illinois University in Macomb and a masters degree in Chemistry from Loyola Chicago.

Dates and Locations

February 1 - Countryside - Park Place - 6240 Joliet Road - phone 708-588-1756

Costs

\$35.00 for AWWA members \$50.00 for non members

Note - Bring a hand held scientific calculator, pencil and paper.

LOCATING BURIED WATER LINES - (HALF DAY SEMINAR)

Registration

8:30 am. Earn up to 3 renewal training credit hours or professional development hours

Continental breakfast included - seminar to conclude by noon - lunch is not included

Description

The Equipment: Transmitters and Receivers

What the electromagnetic signal is doing

Why the electromagnetic signal is doing that!

Methods to make the signal do what you want.

Care and feeding of your equipment

Speakers

Brad Horton, Regional Sales Manager, Fisher Research Labs (*today is Brad's birthday too*)

Dates and Locations

July 30th - Naperville Electric Service Center, 1392 West Aurora Avenue, Naperville, phone 630-305-5215

Costs

\$25.00 for members \$35.00 for non members

WATER ACCOUNTABILITY M36 - "WATERWISER" HALF-DAY SEMINAR

Registration

8:30 am registration - Seminar starts at 9:00 am

Earn up to 3 renewal training credit hours or professional development hours

Continental breakfast included - seminar to conclude by noon - lunch will NOT be provided.

Description

The Water Audit Software package includes five worksheets in a spreadsheet file. The first worksheet provides instructions on the use of the software. The majority of data is entered on a reporting worksheet and prompts the user to enter standard water supply information such as the volume of water supplied, customer consumption, and quantities of losses.

Knowing that many water utilities don't typically tabulate all of this data, the software allows the user to enter either known (measured) or estimated (quantities that must be approximated) values. The software then calculates a variety of performance indicators which are useful in making performance comparisons among water utilities. This half day seminar will review in detail the spreadsheet-based water audit tool which is designed to help quantify and track water losses associated with water distribution systems and identify areas for improved efficiency and cost recovery. Participants are encouraged to bring a laptop computer to the seminar.

The software can be downloaded for free by going to the following site - <http://www.awwa.org/WaterWiser/waterloss/Docs/WaterAuditSoftware.cfm> - click on the link to view the terms of acceptance of use, click at the bottom of that form I agree....and an excel spreadsheet will open and you can save it to your hard drive.

Speaker

John H. Van Arsdel, Marketing Manager, M.E. Simpson, Co., Inc..

John has been with M.E. Simpson Co., Inc. since May 1989. He is a graduate of Valparaiso University with a B.A. in Geography with an emphasis in Locational Evaluation and Research Design. John has over 17 years experience directing projects for water utilities concerning water loss prevention and audits, leak detection programs, meter evaluation and maintenance, flow testing using the Polcon® Flow Testing method (C-factors, pump curves, zone flow measurements), mainline valve assessments (location, exercising and mapping programs), and fire hydrant and main capacity flow testing programs. John has been responsible for the analysis, evaluation, and CAD updating of Water Distribution, Sanitary, and Storm Sewer Atlases using GPS locating. He developed the company's Unidirectional Main Flushing Program and Utility Atlas Updating Program. He has lectured and conducted classes for continuing education credits for water operators for over ten years to several local and state Water Works Organizations on Water Loss Reduction including Water Audits, Leak Detection, Meter Testing and Flow Testing.

Dates and Locations

May 2 - Joliet - Strand Associates Training Room - 1170 Houbolt Rd., - phone 815-744-4200

Costs

\$25.00 for AWWA members \$35.00 for non members

Bring your laptop pre-loaded with the WaterWiser Software. See above for downloading instructions.

ELECTRICAL SAFETY FOR WATER WORKERS AND NFPA 70

Registration

8:30 am registration - Seminar starts at 9:00 am

Earn up to 5 renewal training credit Hours or professional development hours

Continental breakfast and lunch included - seminar to conclude by 3:00 pm

Description

Electric Safety for Water Workers

Understand the Hazards of Electricity

Basic Electric Terms

ARC Flash Hazards

Identify Electrical Symbols found on Diagrams Electrical

Test Meters

Safety Equipment

NFPA 70

Explain the standard

Qualified and unqualified workers

General Safety Hazards of Electrical Work

Arc Flash

Safe procedures to reduce risk

Speakers

Jim McGrail, City of Naperville Safety & Training Instructor. Jim is a certified OSHA Trainer who has over 20 years experience in utilities. Jim was a lineman, and has an extensive background as a trainer with ComEd. He is currently the lead instructor for safety & training with Naperville Water, Wastewater, Electric, and Public Works. He is also a certified Utility Accident Investigator.

Dates and Locations

February 27 - Naperville - Naperville Electric Service Center, 1392 West Aurora Avenue, Phone 630-305-5215

Costs

\$35.00 for AWWA members \$50.00 for non members

SURFACE WATER PRODUCTION 101

Registration

8:30 am registration - Seminar starts at 9:00 am

Earn up to 5 renewal training credit hours or professional development hours

Continental breakfast and lunch included - seminar to conclude by 3:00 pm

Description

Surface Water Production 101 will cover all aspects of the water treatment process from intake to distribution. This full day seminar will include discussion related to chemical treatment, clarification, filtration, disinfection, and advanced treatment technologies currently used in surface water production. In addition, topics related to plant security, water monitoring, plant automation, and case histories will be included.

A historical overview of water treatment practices Pretreatment and Intake Options to Promote Consistent Water Quality Conventional Treatment - Rapid Mix, Flocculation, Clarification, Granular Filtration Advanced Treatment Technologies - Ozone, UV, Membrane Filtration, Chlorine Dioxide Disinfection

Speaker

Brian L. Hackman, P.E., P.H. Strand Associates Mr. Hackman has more than 10 years of experience in research, design, and implementation of water supply and treatment projects for both ground and surface water communities in the Midwest. His surface water experience includes leading design efforts for new and existing water treatment facilities using conventional treatment, membrane filtration, and UV disinfection. Mr. Hackman holds two degrees:

B.S. in Civil Engineering, with honors, 1996 and M.S. of Environmental Engineering in Civil Engineering, 1998, both from the University of Illinois-Urbana. Brian is both a licensed professional engineer in Illinois, Wisconsin and Kentucky, Florida, and West Virginia and is a certified and registered professional hydrologist through the American Institute of Hydrology.

Date and Location

February 28th - Strand Associates, 1170 Houbolt Rd., Joliet - phone 815-744-4200 for directions

March 28th - Mt. Vernon - Holiday Inn, 222 Potomac - phone 618-244-7100

Costs

\$ 35.00 for AWWA members - \$50.00 non members

OPERATOR C & D REVIEW COURSE

Registration

8:30 am. Earn up to 6 renewal training credit hours or professional development hours
Continental breakfast and lunch included - seminar to conclude by 4:00 pm

Description

This course is to provide the water supply operator with a review of the math, hydraulics, chemistry, supply, treatment, distribution and disinfection procedures and requirements for the Class C & D operators certification examination.

CLASS OUTLINE

Water Works Math Review
Hydraulics
Water Chemistry
Chemical Feeding (Chlorine & Fluoride)
Water Sources and Treatment
Groundwater & Wells
Distribution Systems Questions & Review

Speakers

J. Warren Green, P.E.

Mr. Green is a registered professional engineer with the engineering firm of McDonough Associates Inc. responsible for engineering management and supervision of complex water treatment and transmission facility projects. He has guided water system improvements through all necessary phases including feasibility studies, pilot testing, design, financial evaluation, land acquisition, construction, start-up, and operation. Prior to joining his current firm, Mr. Green was responsible for the operation and management of a municipal water system utilizing both surface and ground water supplies. He has taught water operation certification courses for approximately 20 years.

Date and Location

April 26th - Waukegan - USA Bluebook Training Room, 3781 Burwood Drive, - phone 847-689-3000
May 9th - Rochelle - Hickory Grove Conference Center - 1127 N. 7th St. - phone 815-562-5668

Costs

\$ 35.00 for Illinois Section AWWA members - \$50.00 for non members

BASIC WELL SYSTEMS AND SAMPLING TECHNIQUES

FAIRBURY AND ROCKFORD

Registration

8:30 am registration - Seminar starts at 9:00 am - seminar to conclude by 3:30 pm
Earn up to 5 renewal training credit hours or professional development hours

Description

Basic Well Systems

Typical Water Supply Wells in Northern Illinois
Sand and Gravel - Limestone - Sandstone
Sand and Gravel Well Construction and Development
Preliminary Investigation - Well construction considerations - Well development
Limestone (Crevice) Wells
Sandstone Wells
Permanent Well Pump Selection and Design Considerations
Well Rehabilitation

Sampling collection do's and don'ts. Also covered will be sampling and testing procedures for IOC's, fluoride, nitrate and nitrite, SOC's, VOC's, disinfection by-products, and bacteriological samples. The seminar will conclude with a Virtual Lab Tour including a discussion of IEPA filing and compliance procedures."

Speakers

William Balluff, P.E., Senior Project Manager, Layne Western Company/Aurora, IL
William has been in the water supply industry for over twenty-five years. He was employed for 18 years, by Layne Christensen Company, as Project Engineer in Aurora, IL and District Manager in Lansing, MI. He has just recently returned to the Layne Aurora office, as Senior Project Manager, after working the last six years as Dixon Engineering Inc.'s Western Division Director of Operations in Yorkville, IL. He is a graduate of the University of Illinois with a Bachelor of Science Degree in General Engineering. His association memberships include AWWA, NRWA, NSPE, SSPC, and NACE and is a licensed Professional Engineer.

Lori L. Stenzel, Drinking Water Program Manager, PDC Laboratories, Inc.
Drinking Water Client Services Manager PDC Laboratories, April 1999 – Present,
Drinking Water Program Manager, October 1991 – April 1999; Senior Mass Spec Analyst, 1990 – 1991;
Organic Staff Scientist, 1987 – 1990, Daily Analytical Laboratories, Peoria, IL

Ms. Stenzel's primary responsibility is drinking water program management. She has over 19 years environmental chemistry and over 15 years in drinking water program management. This involves monitoring clients' projects from start to finish to insure proper analyses, turn around time, monitoring drinking water compliance and maintaining a good rapport with the appropriate state agencies.

Prior to the drinking water program management, Ms Stenzel worked as senior mass spectroscopist in the organics section. She gained an extensive background in all phases of organic analysis extraction procedures, gas chromatography, mass spectroscopy, data review and interpretation, scheduling, training, troubleshooting, and method development.

Dates and Locations

January 18th - Fairbury - Walton Center - 100 W. Locust St. - phone 815-692-2616
January 23 - Rockford - Clocktower Inn - 7801 E. State St., - phone 815-398-6000

Costs

\$35.00 for AWWA members \$50.00 for non members

BASIC WELL SYSTEMS AND SAMPLING TECHNIQUES

WEST CHICAGO AND JOLIET

Registration

8:30 am registration - Seminar starts at 9:00 am

Earn up to 5 renewal training credit hours or professional development hours

Continental breakfast and lunch included - seminar to conclude by 3:00 pm

Description

Sampling collection do's and don't. Also covered will be sampling and testing procedures for IOC's, fluoride, nitrate and nitrite, SOC's, VOC's, disinfection by-products, and bacteriological samples. The seminar will conclude with a virtual lab tour including a discussion of IEPA filing and compliance procedures."

Basic Well Systems

Deep and Shallow Bedrock Well Details and Considerations

Sand and Gravel Well Details and Considerations

Well pump basics

Cleaning, Development, Test Pumping, and Disinfection after construction.

Permanent Well Water disinfection systems.

Open discussion - questions and answers

Speakers

Andy Groeper, Suburban Labs

Andy has over 25 years of marketing management experience, over 17 in the laboratory industry. He completed two years of undergraduate study as a biology major and chemistry minor before switching his major to marketing. While completing his BS in marketing from Bradley University, he was a laboratory research technician performing analytical tests on oils and metals in an industrial lab. After graduation Andy worked in several marketing services firms executing market research studies and developing database driven marketing programs.

In 1989 he joined Daily Analytical Laboratories as the marketing director and has held similar positions at both Keystone Laboratories in Newton, Iowa, and STL in University Park, IL. He has developed and implemented marketing programs, managed the client services departments, and provided client services training for the technical staff at each laboratory. He specializes in drinking water issues in the environmental industry. Since 2003 he has served as the marketing director for Suburban Labs, a multi-discipline lab in Hillside, IL.

Todd Kerry, Since 1956 Meadow Equipment is one of the largest water well drilling and water well pump servicing companies in Illinois. They specialize in all aspects of water wells: water well drilling, water well pump servicing, water well rehabilitation, and well design. Being third generation in the industry, Todd worked his way from the ground up, learning the business by starting out as a helper in the field. This gave him knowledge of all aspects of the water well industry which now serves him well as a Project Manager for Meadow. Todd Kerry now applies that knowledge by diagnosing problems for Municipalities, Industry, Golf Courses and Residential Clients and provides comprehensive solutions designed to meet their individual requirements. He also designs water wells, water well pumping systems and specialized water well rehabilitations that are customized for each individual client. Todd Kerry brings 20 years of experience to the Illinois groundwater community to provide insight on how groundwater is delivered to your communities.

Dates and Locations

February 7th - West Chicago Fire Station #1, 200 Fremont St., West Chicago IL 60185

April 10th - Strand Engineering Office - 1170 Houbolt Road, Joliet - phone 815-744-4200

Costs

\$35.00 for AWWA members

\$50.00 for non members or onsite registration

CATHODIC PROTECTION AND CORROSION CONTROL

Registration

8:30 am registration - Seminar starts at 9:00 am

Earn up to 5.5 renewal training credit hours or professional development hours

Continental breakfast and lunch included - seminar to conclude by 4:00 pm

Description

This course will cover the causes and nature of corrosion and corrosion control methods which may be used in the potable water field.

Program

Introduction to Corrosion Control

What is Corrosion, Why Does it Occur, The Corrosion Cell, and The Corrosion Phenomena.

Corrosion Control Methods

Designing for Corrosion Control, Material Selection, Environmental Modifications, and Inhibitors.

Corrosion Control Methods How they Work

The Three Components of the Corrosion Cell, Anodic Passivation Inhibitors, Cathodic Inhibitors, Ohmic Inhibitors, Organic Inhibitors, Precipitation Inhibitors, and Vapor Phase Inhibitors.

Corrosion Control Coatings

This section will cover the different methods of protecting your pipe with the use of protective coatings.

Cathodic Protection

This section will cover the dynamic method, the corrosion battery, and what the advantages are.

External Atmospheric Corrosion Control

This section will cover the available control methods, Coatings, inside water tanks, and internal pipeline corrosion control.

Speakers

Charles Lawrence, P.E. AB&H, A Donohue Group

A graduate of Northwestern University, Mr. Lawrence has twenty-eight years experience in corrosion control and cathodic protection for underground pipelines. He has been with the firm of AB&H, A Donohue Group for the last twenty years, where he is responsible for corrosion engineering and the design of chemical treatment processes and feed systems. Mr. Lawrence is a member of AWWA and NACE, where he is a member of several standards writing committees. Mr. Lawrence is the author of numerous articles on the subject of corrosion control, among them *To CP or Not to CP? That is the Question*, which appears in *Assessing the Future: Water Utility Infrastructure Management*, published by AWWA.

Dates and Locations

May 7 - Waukegan - USA Bluebook Training Room, 3781 Burwood Drive, - phone 847-689-3000

Costs

\$35.00 for AWWA members \$50.00 for non members or onsite registration

METERS A TO Z

Registration

8:30 am registration - Seminar starts at 9:00 am

Earn up to 5 renewal training credit hours or professional development hours

Continental breakfast and lunch included - seminar to conclude by 3:00 pm

Description

Accurate water measurement is the means by which waster utilities produce revenue to cover expenses, charge each customer equitably, prevent waste of water, and minimize the load on wastewater facilities. During this intensive one-day seminar we will explore Meters from A to Z.

What is a Water Meter - Things Water Meters Do
A Water Meter Only Does Two Things, Register and Record
Types of Water Meters - Fire Service Metering
Sensus Fireline Meter or the Neptune Protectus Meter
Application's for Water Meters
Sizing of Water Meters - Meter Testing
Repair or Replacement - Conclusion and Remarks

Speakers

John H. Van Arsdel, Marketing Manager, M.E. Simpson, Co., Inc..

John has been with M.E. Simpson Co., Inc. since May 1989. He is a graduate of Valparaiso University with a B.A. in Geography with an emphasis in Locational Evaluation and Research Design. He has completed Water Operators classes and seminars on Water Filtration and Distribution, Vulnerability Assessment Class for the Sandia Labs RAM-W method and the RAM-W "modified" for small to medium systems (*currently licensed to use the Sandia Labs RAM-W Method, and licensed to teach the RAM-W "modified" for small to medium water systems*), classes related to the operation and maintenance of water meters, system hydraulics specifically related to the Polcon® Flow Testing equipment, and backflow prevention. John has over 17 years experience directing projects for water utilities concerning water loss prevention and audits, leak detection programs, meter evaluation and maintenance, flow testing using the Polcon® Flow Testing method (C-factors, pump curves, zone flow measurements), mainline valve assessments (location, exercising and mapping programs), and fire hydrant and main capacity flow testing programs. John has been responsible for the analysis, evaluation, and CAD updating of Water Distribution, Sanitary, and Storm Sewer Atlases using GPS locating. He developed the company's Unidirectional Main Flushing Program and Utility Atlas Updating Program. He has lectured and conducted classes for continuing education credits for water operators for over ten years to several local and state Water Works Organizations on Water Loss Reduction including Water Audits, Leak Detection, Meter Testing and Flow Testing. For the last three years he has taught classes on Vulnerability Assessments and Emergency Response Planning for Water Utilities as well as conducting several VA and ERP projects. He has maintained an active role in several local and state water works organizations including holding offices on various Boards of Directors. As Marketing Manager for M.E. Simpson Company, Inc., John Van Arsdel serves as the main point of contact for client development, business sales and customer relations.

Dates and Locations:

January 9th - Elgin - Heritage Ballroom at the Centre of Elgin - West Conference Room
100 Symphony Way,

September 18th - Mt. Vernon - Holiday Inn - 222 Potomac Blvd, - phone 618-244-7100

Costs

\$35.00 for AWWA members \$50.00 for non members

UNDERSTANDING WATER HAMMER (SURGE) IN WATER DISTRIBUTION SYSTEMS

Registration

8:30 am registration - Seminar starts at 9:00 am

Earn up to 5 renewal training credit hours or professional development hours

Continental breakfast and lunch included - seminar to conclude by 3:00 pm

Description

This presentation will provide basic technical information related to understanding water hammer in water distribution systems as well as its root causes. The presentation will also discuss tools that can be used to analyze for surge in water distribution systems and will discuss different surge protection systems.

What is Surge?

Definition

Causes

Impacts

Review of Water Distribution System Hydraulics

Surge Analysis

Data Required

Model Development

Calibration

Surge Protection Systems

Air/Vacuum Valves

Surge/Bladder Tanks

Elevated Tanks

Case Studies

Speakers

Amrou Atassi, P.E., CDM. Amrou Atassi is a project manager with CDM-Chicago. He has almost seven years of experience in the planning, design and construction oversight of water treatment and distribution system projects. Amrou has developed several water distribution and surge models for utilities in the Midwest. Amrou has an MS degree in environmental engineering from Purdue University and a BS degree in civil engineering from Valparaiso University. Amrou has presented on water treatment and distribution system topics at various national and local conferences. He is a registered professional engineer in Illinois.

Dates and Locations:

May 3- Naperville Electric Service Center - 1392 West Aurora Avenue - Naperville - 630-305-5215

Costs

\$35.00 for AWWA members \$50.00 for non members

BLT 101 OR HOW ELIMINATING WIRES CAN SAVE YOU BIG MONEY LUNCH-HOUR WEB TRAINING

Registration

Join us for our online Webstream lunch time training sessions. Registration costs are \$5.00 per person and include directions on how to construct your BLT sandwich prior to the start of the seminar. Each seminar will start with a new variety of sandwich. You will receive with your registration a short email test to return for verifying your attendance at this one hour credit seminar. This seminar will earn upto one hour renewal training credit.

Description

Some convert to wireless and things go great, and some do it and wish they never did – why? There are just so many wireless options out there and new vendors entering every year. We will do our best to answer the following questions: How do you plan right for it? What frequency do you pick; should you go with Spread Spectrum? ... what is Spread Spectrum anyway? Should your community consider collaborating with other agencies to share the network? Are you really *ready* to own your own wireless network? How much are you really going to save? Should you share your SCADA wireless network with your data network? This will be a practical session with just enough technical details and actual examples for you to make smart decisions on moving forward with whether you should go to wireless, upgrade your wireless network, or just stay where you're at. Enjoy lunch with an engineer/systems integrator who is truly passionate about helping you to feel right about your technology decision-making.

Speakers

Christopher T. Sosnowski, P.E., Baxter & Woodman Engineers, Inc.

Chris received his B.S in Civil Engineering from the University of Illinois and his M.S. in Civil & Environmental Engineering from the University of Wisconsin. He is the manager of B&W Control Systems Integration (BWCSI), a wholly owned subsidiary of Baxter & Woodman, Inc. BWCSI, a certified Microsoft Partner, assists municipalities with a variety of technology-related decisions. Chris has consulted on projects including computer-based operations & maintenance, telemetry/radio system design, handheld data collection, automatic meter reading (AMR) applications, information security consulting, SCADA system design, municipal web-based implementations, GIS planning and design, as well as providing comprehensive technology training sessions. He is a member of the AWWA, WEF, Microsoft TechNet, and the Microsoft Developers Network.

Dates and Locations:

March 6 -11:30 am to 12:30 pm - At your office via high speed internet connection.

Costs

\$5.00 for AWWA members \$10.00 for non members

CALIFORNIA TURKEY 101 OR JOINT RESTRAINT APPLICATION AND DESIGN LUNCH-HOUR WEB TRAINING

Registration

Registration is online for this first of many Webstream lunch time training. Registration costs are \$5.00 per person and include directions on how to construct your California turkey sandwich prior to the start of the seminar. Each seminar will start with a new variety of sandwich. You will receive with your registration a short email test to return for verifying your attendance at this one hour credit seminar.

Description

This seminar will cover the basics of restraining pipe joints for pressure water and sewer applications. It will include discussions of the forces developed by pressure, and the various methods of resisting these forces. Practical solutions and available products will be presented as well as a discussion of the value of concrete thrust blocks. A demonstration of joint restraint design software will also be presented. This seminar is suitable for municipal water employees and consulting engineers.

Speakers

R. J. Fischer (*Jeff*), Jeff Fischer began his career in the waterworks field in 1978 after graduating from Drake University with a bachelor's degree in Management/Economics. He founded R. J. Fischer and Associates in 1983 after a successful career with 3 other firms in the water/wastewater and oil/gas industries. In 1999 he formed a partnership with Dave Harris and formed Fischer, Harris & Associates. Jeff has had great success at many levels of these industries and continues to make and maintain many professional relationships in all market segments.

He has been a member of AWWA since 1978 and has chaired several Committees within the Illinois Section including MAC, Tapping Contest and Taste Contest. Jeff is currently a board member of the Illinois Section and has been since 1998 He has served as Trustee, Vice Chair, Chair Elect, Chair and Past Chair, and is currently the Illinois representative as director to the National AWWA. He was recently awarded the Fuller Award.

Jeff is also a member of several potable water operator groups in Illinois, and active with AWWA Sections and Rural Water Associations in several neighboring states. In Wisconsin he is currently serving on the Section's Distribution Committee. Within the Wisconsin Rural Water Association, Jeff was nominated for Associate Member of the Year in 2003 and inducted into the Society of Water Professionals in 2004.

Jeff has provided operator training at numerous AWWA Section and State Rural Water seminars and has also taught at operator certification classes at Junior Colleges in Illinois and Iowa. He has provided continuing education training for operators and engineers in Illinois, Iowa, Minnesota, North and South Dakota, Nebraska and Wisconsin.

Dates and Locations:

January 30th - 11:30 am - 12:30 pm - At your office via high speed internet connection.

Costs

\$5.00 for AWWA members \$10.00 for non members

TANKS...EVALUATION, MAINTENANCE AND SAFELY ACCESSING

Registration

8:30 am registration - Seminar starts at 9:00 am

Earn up to 5 renewal training credit hours or professional development hours

Continental breakfast and lunch included - seminar to conclude by 3:00 pm

Description

Critical Owner-Performed Evaluation and Maintenance of Water Storage Tanks

Throughout the United States, water storage tanks are highly visible reminders of the water system's commitment to providing abundant clean, safe drinking water to the public they serve. Just as pipes, valves, and machinery within the distribution system require regular evaluation and maintenance, so do the water tanks if the tank owner is to realize the full service life of the tanks. Water tanks cost hundred of thousands of dollars to build; but with regular maintenance, they can be viable components of the distribution system for a virtually limitless period of time. Owner-performed evaluation and maintenance of the distribution system's water storage tanks may help prevent the need for literally thousands of dollars in future repair work.

The maintenance of water storage tanks includes regular monitoring and maintenance requirements that can be performed by the Owner's personnel, and periodic evaluation and maintenance that require the more specialized services of engineers and contractors who specialize in the design and maintenance of water storage tanks. This presentation will provide an in-depth step-by-step guide to the Owner's personnel who are charged with the day-to-day monitoring and maintenance of the water storage tanks. It will also pinpoint warning signs of the need for more extensive evaluation of the structure.

Accessing Water Storage Tanks – Safety Considerations

Unless you've been blessed without a fear of heights, accessing your system's water storage tanks can be a daunting task. This presentation will discuss the basics of safe access. Preparation for safe access should start even before you set foot on the site. Using the proper personal protective equipment will be an important part of your safe access. Heights are not the only safety issue to consider as precautions for working around lead-based coatings and asbestos insulation may need to be followed. As water tanks are classic examples of confined spaces, air monitoring will need to be conducted to verify that air levels are within acceptable parameters prior to tank entry.

Speakers

Jennifer D. Coon, CHMM, CET, *Safety Director*, Tank Industry Consultants

Jennifer Coon has a Masters of Science degree from Indiana University, with a concentration in Hazardous Materials Management. Her Bachelor's degree, also from Indiana University, is in Public Affairs with a concentration in Environmental Science. She is a Certified Environmental Trainer and a Certified Hazardous Materials Manager. She is a member of the Academy of Certified Hazardous Materials Managers where she is a Primary Representative to the ANSI Confined Space Committee.

Jennifer is the Safety Director for Tank Industry Consultants where she is responsible for developing, communicating, and monitoring TIC's extensive Health and Safety program. Jennifer authored, updates, and enforces all aspects of TIC's construction safety program which include Lead in Construction, Hazard Communication, Personal Protective Equipment, Confined Space, and Lockout/Tagout components.

Dates and Locations

January 10th - Springfield - City Water Light & Power - 200 East Lake Drive - 217-757-8660 ext 12

Costs

\$35.00 for AWWA members \$50.00 for non members

CHLORINE FEED EQUIPMENT O & M

Registration

8:30 am registration - Seminar starts at 9:00 am

Earn up to 5 renewal training credit hours or professional development hours

Continental breakfast and lunch included - seminar to conclude by 3:00 pm

Description

Chlorine Feed Equipment O&M.

Safe handling of chlorine gas or liquid

Risk Management Issues – what is best for your plant; Personnel safety

What to know for sizing a system with your engineer or staff

Ppd in 24 hours or 8 hours; Chemicals in water impact, etc

Importance of regular Maintenance on your system

Vacuum Regulators – Control Valves, Rotometers, tubing, controllers

Hands on tear down of various VR's

Agenda–

What do you know?

Basic System Theory (Gas)

Basic System Theory (Liquid vacuum dosing)

Safety procedures - quiz and prizes!

Hands on - tear it down, put it back together

Wrap up - quiz and more prizes!

Speakers

Toby Duckett, Ley & Associates

Toby Duckett is currently a sales representative for Ley & Associates, Inc, Rolling Meadows, Illinois. Toby is a BSCE graduate and distinguished alumnus from the University of Illinois, Champaign and holds a MBA from Keller Graduate School in sales management. After starting in the engineering business, and then a sludge on land contractor, Toby has been a manufacturer rep for over 30 years. He has sold and serviced chlorine and chemical feed systems for over 15 years. Toby is a life member of the AWWA and ISAWWA, member of the WEF, Illinois WEA, CSWEA, and Indiana WEA.

Tony Callery, Portacel, Inc.

Tony is currently the Western Hemisphere Operations Manager for ITT Advanced Water Treatment , Portacel, Inc Division. He has formerly held the following positions: Director Sales and Marketing - Roediger; International Manager - FB Leopold Co.; Project Engineer - Romac Engineering; Project Engineer- Frazier Simplex Engineers; Regional Manager- Perolin & Wright Chemical; District Sales Manager – Continental Water. He graduated from Penn State (BSCHE, BA Advertising and Marketing, AAS Electrical Engineering Technology) and also from the United States Marine Corps, active and reserve, retired. Tony holds a patent on glass plant cullet quench recovery and cooling system.

Dates and Locations

April 24th - Libertyville - Sports Complex - Route 45 and Peterson Road - phone 847-367-1502

April 25th - East Peoria - FOLIPI - 2200 E. Washington St. - phone 309-698-4716

Costs

\$35.00 for AWWA members \$50.00 for non members

CHEMISTRY OF IRON AND MANGANESE - ION EXCHANGE HALF DAY SEMINAR

Registration

8:30 am registration - Seminar starts at 9:00 am

Earn up to 4 renewal training credit hours or professional development hours

Continental breakfast included - seminar to conclude by 1:00 pm - lunch will Not be provided

Description

We will cover the basic chemistry of iron and manganese. We will then work through removal options and treatment methods including filter sizing, media selection and process designs. The process designs will include equipment selections such as, aeration, package plants, pressure filters and gravity designs for larger applications. We will end with a section on operation and maintenance of filters. Additionally we will discuss ion exchange and the process and O-M for this ion exchange.

Speakers

Tom Dumbaugh, P.E., Technical Sales Manager, North Central Siemens Water Technologies and Microfloc and General Filter Products
Employed by Siemens Water Technologies since 1998 and currently the Technical Sales Manager for the North Central Region for General Filter and Microfloc Products. BA in Math from Luther College and University of Iowa, MS in Environmental Engineering. My first job was with Seneca Environmental in Des Moines, IA where I spent 5 years there designing and selling remediation systems. I currently work with engineers, communities and sales reps on the design of municipal and industrial water treatment systems.

Dates and Locations

September 25 - Rochelle - Hickory Grove Conference - 1127 N. 7th St. phone 815-562-5668

September 26 - Joliet - Strand Associates - 1170 Houbolt Rd, - phone 815-744-4200 for directions

September 28 - Mt. Vernon - Holiday Inn - 222 Potomac Blvd. - phone 618-244-7100

Costs

\$25.00 for AWWA members \$35.00 for non members

IPSI - Training for Public Service Professionals

IPSI is a three-year training program which provides instruction expressly designed for city and county public service supervisors, managers and directors. The course is divided into three one-week sessions (one week each year) focusing on training in public service, personal growth and professional development. IPSI participants consistently say that this is the best training program they have ever experienced.

College Credit and Continuing Education Credit Available

October 7 through October 12, 2007

Focus on *Developing Supervisory Skills*

Registration Fee \$650

*Includes classes and instruction materials and breaks.
Lunch will be provided on Monday, Tuesday and Thursday.
Dinner will be provided on Sunday, Tuesday and Thursday.*



Deadline for registration September 17, 2007

Keller Convention Center - 1202 North Keller Drive, Effingham, Illinois

For additional information, contact Mary Bender 231-797-5536

mbender102@aol.com

REGULATORY UPDATE

Registration

8:30 am registration - Seminar starts at 9:00 am

Earn up to 5 renewal training credit hours or professional development hours

Continental breakfast and lunch included - seminar to conclude by 3:00 pm

Description

Technical session begins at 9:00 am. This seminar will cover current and upcoming regulations. In addition to reviewing the rules themselves, we will also explore operational strategies that can be employed to meet these regulations. A discussion forum will wrap up the day allowing you time to ask your specific questions. Illinois EPA representatives may be available to answer questions.

Speakers

Miguel A. Del Toral, Regulations Manager, Ground Water and Drinking Water Branch, USEPA Region 5

Mary Reed, Illinois EPA, Drinking Water Compliance Unit, Compliance Officer

Lanina M Schnapp, Environmental Protection Specialist, Drinking Water Compliance Assurance Section, Illinois EPA

Cuneyt Feizoulof, P.E., DEE CDM

Cuneyt Feizoulof is a principal engineer with CDM and has more than 10 years of experience in the planning, design and construction management of drinking water treatment improvements.

Steve Medlar, P.E. CDM

Steve Medlar is a senior vice president with CDM and has more than 30 years of experience in the drinking water field. A nationally recognized expert in water treatment technology, he teaches courses on the design of water treatment systems at Rutgers University and has written more than 80 technical papers.

Dates and Locations

September 27 - Elgin - Heritage Ballroom at the Center of Elgin, 100 Symphony Way,

Costs

\$35.00 for AWWA members \$50.00 for non members

Questions and Answers

Please submit questions or topics that you would like addressed during this seminar. List your question below and fax to 866-521-3591. We will do our best to have your question addressed during this workshop.

Question:

CONTROL VALVES - MAINT. OPERATION & TROUBLESHOOTING

Registration

8:30 am registration - Seminar starts at 9:00 am

Earn up to 5 renewal training credit hours or professional development hours

Continental breakfast and lunch included - seminar to conclude by 3:00 pm

Description

Basic Main Valve principle of operation, assembly and maintenance.

Pressure Control Valves - how they operate, troubleshooting.

Altitude Valves - operation, pilot spring control differences over the years.

Pump Control Valves - operation, difference between deep well type and booster type.

This seminar presents the six (6) most common type check valves used. It includes each type with their individual features and benefits, along with their limitations. It also covers the standard maintenance necessary for these check valves. The seminar is a combination of a PowerPoint Presentation with the actual check valve cut-aways to explore and compare. Attendees each will receive a "White Paper" on this subject along with a simple Check Valve Comparative Selection Chart, to aid in their future selections.

Speakers

Andy Caselli, District Sales Manager, Cla-Val Company, Northern Regional Office & Warehouse - Elgin, Illinois. Andy has been a sales representative for Cla-Val for over thirteen years and also previously worked for the Henry Pratt Company (manufacturer of AWWA butterfly and ball valves) for one and a half years previously. He is a member of AWWA (with Illinois and Indiana section memberships), American Society of Plumbing Engineers (ASPE) and North Suburban Water Works Association in the Chicago metropolitan area. Cla-Val is a national Rural Water member.

Larry Tolvaysh, Val-Matic Valve & Manufacturing Co.

Larry Tolvaysh is an active member of AWWA. He is the Central Regional Manager for Val-Matic Valve & Manufacturing Corporation in Elmhurst, Illinois. He has 24 years experience with AWWA engineered products with two major valve companies in the municipal industry. He conducts seminars on Air Valve Theory and Installation, Inflow Prevention, Quarter Turn Valve Applications and Check Valve Design and Selection Criteria

Dates and Locations

June 5 - Libertyville - Sports Complex - Route 45 and Peterson Road - phone 847-367-1502 for directions

June 19th -Fairbury - Walton Center - 100 W. Locust St., - phone 815-692-2616

Costs

\$35.00 for AWWA members \$50.00 for non members

SIMPLIFIED PROCEDURES FOR WATER LABS (M12)

Registration

8:30 am registration - Seminar starts at 9:00 am

Earn up to 5 renewal training credit hours or professional development hours

Continental breakfast and lunch included - seminar to conclude by 3:00 pm

A optional manual is available for an additional \$68.00 - M12 Simplified Procedures for Water Examination (M12), Fifth Edition. Please indicate you would like the manual on the registration form.

Description

Reliable water quality testing forms the basis for regulatory compliance and ensures the best possible quality drinking water for the community. This best-selling operations manual provides operators with simplified, approved procedures for lab tests commonly needed for process control in drinking water production. The fifth edition includes new and updated methods, laboratory equipment needed, and safety procedures. The reliable, reproducible testing procedures in this new edition enable plant operators to evaluate and optimize treatment processes to produce the highest possible quality drinking water.

Speakers

Sarah Boyd, Illinois American Water Co., Lab

Dates and Locations

June 5 - East St. Louis - Casino Queen - 200 South Front St., - phone - 800-777-7701

Costs

\$35.00 for AWWA members \$50.00 for non members

ANNUAL WATER INFRASTRUCTURE AND HOMELAND SECURITY

Registration

8:30 am. Earn up to 5 renewal training credit hours or professional development hours

Continental breakfast and lunch included - seminar to conclude by 3:00 pm

Description

Technical session begins in the morning at 9:00 am. This seminar will cover latest water infrastructure security issues, EPA and FBI issues relating to public works safety and security. To submit an abstract please fill out the form below and email to laurie@isawwa.org.

Speakers

To be determined - The deadline for submitting an abstract is June 1, 2007. Please limit submittals to 300 words or less. Submittals should be e-mailed to: laurie@isawwa.org. Questions can be directed to Laurie Dougherty at 866-521-3595 or email laurie@isawwa.org. The Technical Program Committee will meet in June to review submittals and select the abstracts for presentation.

Date and Location

August 7- Countryside - Park Place - 6240 Joliet Road - Countryside - Phone 708-588-1756

Costs

\$ 35.00 for Illinois Section AWWA members - \$50.00 for non members

WATERSHED PROTECTION

Registration

8:30 am registration - Seminar starts at 9am

Earn up to 5 renewal training credit hours or professional development hours

Continental breakfast and lunch included - seminar to conclude by 3:00 pm

Description

1. Assessment and characterization of the natural resources and the communities that depend upon them.
2. Goal setting and identification of environmental objectives based on the condition or vulnerability of resources and the needs of the aquatic ecosystem and the people within the community.
3. Identification of priority problems.
4. Development of specific management options and action plans.
5. Implementation.
6. Evaluation of effectiveness and revision of plans, as needed.

Speakers

S. John Calise, P.E.

Mr. Calise has more than 25 years of experience in fields of water, wastewater, and storm water planning and infrastructure improvements. His experience includes infrastructure improvement projects related to water, storm water and wastewater; facility planning/feasibility reports; development of Capital Improvement Programs (CIP); development of TIF District infrastructure requirements, design and construction observation, including costs estimates, and permitting. Various engineering work responsibilities include hydraulic analysis using computer modeling; watershed planning and protection; preparation of construction documents; and preparation of permit requirements for municipal utility projects involving water supply development and protection, sewer collection/pumping/treatment and water distribution/pumping/treatment facilities.

Mr. Calise holds two degrees: B.S. Civil Engineering, University of Missouri at Rolla, 1979 and M.S. Hydraulics/Hydrology, University of Missouri at Rolla, 1981. He is licensed as a Professional Engineer in Florida, Illinois and Missouri.

Sharon Hartzold

Resource Planning Specialist Employer - USDA - Natural Resources Conservation Service (NRCS)

Years with employer - 19 (have worked with NRCS in NY, IA and IL)

Location served - 19 counties in Northwest IL - Peoria to Hancock north through Bureau, Ogle and Winnebago then west. Support for Watershed and Areawide Planning and site-specific (farm based) planning. Program support for USDA-NRCS EQIP (Environment Quality Incentives Program). Program provides cost share and incentive for implementation of conservation practices on agricultural land.

Background- live on a family cash grain farm in McLean County College degrees in Animal Science with minors in Ag Education & Ag Economics Certified teacher for Agricultural Education in NY and TX.

Dates and Locations

May 8th - Fairbury - Walton Center - 100 W. Locust St., - phone 815-692-2616

Costs

\$35.00 for AWWA members \$50.00 for non members

ELECTRICAL AND HYDRAULIC BASICS

Registration

8:30 am registration - Seminar starts at 9:00 am

Earn up to 5 renewal training credit hours or professional development hours

Continental breakfast and lunch included - seminar to conclude by 3:00 pm

Description

This course serves as a guide for personnel who will operate and maintain equipment using hydraulic-powered control systems. It includes general information covering basic hydraulics and describes several types of pumps, motors, valves, and controls. It will also deal with piping, tubing, and hoses used to convey water under pressure.

This course will be a refresher on basic electrical systems as it pertains to water system controls. There will also be an introductory section on SCADA systems and the incorporation into the basic water system.

Speakers

David Tucker, P.E., CDM David Tucker is the electrical engineering group leader for CDM's Chicago office. He has 15 years of experience in the design of electrical power and generation systems for the water and wastewater treatment facilities. As part of his project experience, he has acted as the project manager or lead electrical engineer in the design of several engine-generator systems with a combined generator capacity of over 30 megawatts. He has a BS in electrical engineering from Iowa State University and is a registered professional electrical engineering in Illinois, Minnesota, and Wisconsin.

Amrou Atassi, P.E., CDM Amrou Atassi is a project manager with CDM-Chicago. He has almost seven years of experience in the planning, design and construction oversight of water treatment and distribution system projects. Amrou has an MS degree in environmental engineering from Purdue University and a BS degree in civil engineering from Valparaiso University. Amrou has presented on water treatment and distribution system topics at various national and local conferences. He is a registered professional engineer in Illinois.

Dates and Locations

May 14 - Rockford - Clocktower Inn - 7801 E. State St. - Phone - 815-398-6000

Costs

\$35.00 for AWWA members \$50.00 for non members

CROSS CONNECTION

Registration

8:30 am registration - Seminar starts at 9:00 am

Earn up to 5.5 renewal training credit hours or professional development hours

Continental breakfast and lunch included - seminar to conclude by 4:00 pm

Description

This course will provide guidance to water purveyors on the recommended procedures and practices for operating a cross connection program.

Introduction to Backflow Prevention and Cross-Connection Control

This course will cover the major aspects of a cross connection control program. Including Program Administration, Backflow Principles, Backflow Prevention Assembly Applications, Installation and Maintenance and Typical Hazards.

Program Administration

This section will cover the different types of programs associated with a cross connection control program and the different components of a Water Purveyors Program.

Backflow Principles

This section will cover basic hydraulics, types of backflow, the degrees of hazards associated with backflows and the effectiveness of assemblies and devices.

Backflow Prevention Assembly Applications, Installation and Maintenance

This section will cover backflow control methods, backflow devices and testing of backflow devices.

Typical Hazards

This section will cover recommended protection for specific categories of customers and the recommend protection for water purveyor's hazards.

Hands on Assembly and Testing of Backflow Devices.

This section will allow the participant's time to go through the actual assembly and testing of different backflow devices.

Speakers

Ed Connelly, Quality Backflow Testing Inc. (Rochelle)

Ed started Quality Backflow Testing, Inc. in 1988. Besides being a member of the American Backflow Prevention Association, he is a member of the Plumbing Contractor's Association of Cook County.

Harold Miller, Miller Sales (Rochelle)

Harold Miller graduated from Bradley University in 1967 with a Bachelor Degree of Science in Electrical Engineering and then worked for Westinghouse. In 1973 he joined Miller Sales, Inc. a company started by his father in 1959 as partner and outside sales. Miller Sales Inc. represents all of the divisions of Zurn Industries, The Haws Company, and other product lines that are sold to the plumbing, fire protection and lawn irrigation industries.

Michael P. Ellet, Ellet Plumbing (Mt. Vernon site)

Self employed licensed plumbing contractor since 1974 and a well respected educator in backflow prevention and cross connection. Member of American Backflow Prevention Association.

Dates and Locations

April 18 - Mt. Vernon - Holiday Inn - 222 Potomac Blvd., - phone 618-244-7100 for directions

May 24 - Rochelle - Hickory Grove Conf. Center - 1127 N. 7th St., phone - 815-562-5668 (corner of 251 and Rt. 38)

Costs

\$35.00 for AWWA members \$50.00 for non members

WATER LOSS ASSESSMENT

Registration

8:30 am registration - Seminar starts at 9:00 am

Earn up to 5 renewal training credit hours or professional development hours

Continental breakfast and lunch included - seminar to conclude by 3:00 pm

Description

This seminar will focus on the various methods and tools available to water utilities to put into place a Water Loss Prevention program. The topics covered will include the AWWA Water Audit spreadsheet along with the concepts presented in the AWWA M-36 manual, leak detection, meter testing, meter selection and sizing, meter reading, and accounting and billing practices. New terminology for defining the water audit process along with water losses will be discussed. Emphasis will be placed on the economic levels of loss rather than the percentage of lost water. Leak detection methods will be presented along with meter testing concepts. Meter sizing is often overlooked as a potential area of revenue loss, so this area will also be examined.

Speaker

John H. Van Arsdel, Marketing Manager, M.E. Simpson, Co., Inc..

John has been with M.E. Simpson Co., Inc. since May 1989. He is a graduate of Valparaiso University with a B.A. in Geography with an emphasis in Locational Evaluation and Research Design. He has completed Water Operators classes and seminars on Water Filtration and Distribution, Vulnerability Assessment Class for the Sandia Labs RAM-W method and the RAM-W "modified" for small to medium systems (*currently licensed to use the Sandia Labs RAM-W Method, and licensed to teach the RAM-W "modified" for small to medium water systems*), classes related to the operation and maintenance of water meters, system hydraulics specifically related to the Polcon® Flow Testing equipment, and backflow prevention. John has over 17 years experience directing projects for water utilities concerning water loss prevention and audits, leak detection programs, meter evaluation and maintenance, flow testing using the Polcon® Flow Testing method (C-factors, pump curves, zone flow measurements), mainline valve assessments (location, exercising and mapping programs), and fire hydrant and main capacity flow testing programs. John has been responsible for the analysis, evaluation, and CAD updating of Water Distribution, Sanitary, and Storm Sewer Atlases using GPS locating. He developed the company's Unidirectional Main Flushing Program and Utility Atlas Updating Program. He has lectured and conducted classes for continuing education credits for water operators for over ten years to several local and state Water Works Organizations on Water Loss Reduction including Water Audits, Leak Detection, Meter Testing and Flow Testing. For the last three years he has taught classes on Vulnerability Assessments and Emergency Response Planning for Water Utilities as well as conducting several VA and ERP projects. He has maintained an active role in several local and state water works organizations including holding offices on various Boards of Directors. As Marketing Manager for M.E. Simpson Company, Inc., John Van Arsdel serves as the main point of contact for client development, business sales and customer relations.

Dates and Locations

April 5th - Countryside - Park Place of Countryside - 6240 Joliet Road - phone 708-588-1756 for directions

Costs

\$35.00 for AWWA members \$50.00 for non members

ENGINE - GENERATOR SYSTEMS

Registration

8:30 am registration - Seminar starts at 9:00 am

Earn up to 5 renewal training credit hours or professional development hours

Continental breakfast and lunch included - seminar to conclude by 3:00 pm

Description

This presentation will provide technical information related to engine-generator systems and the application of engine-generator systems in water treatment plants and pumping stations.

Engine-Generator Overview

Mechanical Aspects

- Fuel Systems
- Engine Cooling
- Engine Combustion Requirements
- Engine Lubrication
- Engine Exhaust and Emissions
- Engine Starting
- Enclosures

Electrical Aspects

- Generators and Alternators
- Ratings, Sizing, and Motor Starting
- Grounding
- Basic Controls
- Protective Relaying

Application Considerations

- Backup Power
- Paralleling
- Utility Transitions
- Peak-Shaving
- Load Control
- Periodic Testing

Speakers

David Tucker, P.E., is the electrical engineering group leader for CDM's Chicago office. He has 15 years of experience in the design of electrical power and generation systems for the water and wastewater treatment facilities. As part of his project experience, he has acted as the project manager or lead electrical engineer in the design of several engine-generator systems with a combined generator capacity of over 30 megawatts. He has a BS in electrical engineering from Iowa State University and is a registered professional electrical engineering in Illinois, Minnesota, and Wisconsin.

Dates and Locations

August 14 - Libertyville - Sports Complex - Route 45 & Peterson Road - phone 847-367-1502

Costs

\$35.00 for AWWA members \$50.00 for non members

CONSTRUCTION SPECIFICATIONS, BLUEPRINTS AND SHOP DRAWINGS FOR THE OPERATOR

Registration

8:30 am registration - Seminar starts at 9:00 am

Earn up to 5 renewal training credit hours or professional development hours

Continental breakfast and lunch included - seminar to conclude by 3:00 pm

Description

Many times operators are asked to review or read blueprints without training or instruction. This workshop is designed to “close the gap” between the operator and the design engineer. It is intended to assist operators in understanding construction specifications, blueprints, and shop drawings. This will be a “hands on” workshop with no expectation of prior knowledge.

How specifications are developed and why I should care

Understanding blueprints and how they are made

Blueprint reading exercise

Understanding electrical and HVAC drawings

What is a shop drawing? How do I read it? Why is it important?

Speakers

R. Mark Pearson, P.E. , CTE AECOM

Mr. Pearson has 28 years experience in design and construction phase engineering associated with plant infrastructure projects in Missouri, Illinois, Arizona, California and Washington State. He holds a bachelor's degree in Civil Engineering from the University of Missouri-Rolla, and a Master's Degree in Environmental Engineering from California State University – Long Beach. In addition to his design and construction phase experience, Mr. Pearson has written operation and maintenance manuals and conducted operator training for water booster pump stations in Millcreek Township in Erie, PA, and conducted emergency preparedness and response plan development and annual training for the McCarron's Water Treatment Plant in Saint Paul, MN. Mr. Pearson has acted as resident engineer on a 500 mgd ocean outfall booster station for the County Sanitation Districts of Orange County, CA and an 8 mgd wastewater treatment plant in Corona, CA. Throughout his career, Mr. Pearson has fostered operator involvement throughout design, construction, start-up and operation of treatment facilities and pump stations for both operations and maintenance personnel.

Dates and Locations

August 30 - Countryside - Park Place of Countryside, 6240 Joliet Road - 708-588-1756

September 6 - East St. Louis - Casino Queen 200 South Front St., 800-777-7701

Costs

\$35.00 for AWWA members \$50.00 for non members

GIMMICKS and GADGETS

Registration

8:30 am. Earn up to 3.5 renewal training credit hours or professional development hours
Continental breakfast included - seminar to conclude by 12:30 pm - lunch will Not be provided

Description

USABlueBook, a leading supplier to the water and wastewater industry will be discussing many of the gimmicks and gadgets that are unique to our market. Some of these items were invented and developed by technicians in the field. These products can simplify the job and make better use of your time.

Speakers

Ron Zito Ron has been with USA Bluebook since 1995. Ron has a BA in marketing. He has worked in technical department supporting areas in the catalog. His current position is Senior Technical Advisor in the areas of chemical feed, tanks, water treatment and safety.

He also conducted EPA Seminars with Wisconsin Rural Water, Michigan Rural Water and recently with Kansas Rural Water at their annual conference. *Ron will be conducting training in the areas of Chemical Feed Pumps and Hydrant Chlorination and De-chlorination.*

Jon Tiegs - Jon has been working with USA Bluebook for two years. Prior to his time at USA Bluebook he spent 5 years as an Operator at many industrial wastewater facilities throughout the country. He is currently the Product Manager for the Chemical Feed, Water/Wastewater Treatment, and Tank product lines here at USA Bluebook.

Topics Jon would like to cover: *New Product (Gadget) - Grundfos metering pump, New Product (Gadget) - VortiBlend Polymer System, New Product (Gadget) - Arsenic Removal System*

Jan Craig - Jan has been with USA Bluebook for 5 years. Prior to working with Bluebook Jan worked in liquid hazardous waste removal, providing support for pumps, flow metering and electronics. Jan works in the Technical Support Department supporting electrical, flow metering, level pressure and chart recording. *Jan will be discussing the wireless monitoring communication packages.*

Mark Jazwierski - Mark has been in the water & wastewater field for over 12 years. He has worked in the Technical Support Department at USABlueBook for the past 8+ years and is currently a Senior Technical Advisor. His speciality is in products. *Mark will be discussing products related to Aeration, Hydrants, Hoses and Pumps.*

Joyce Mattner - Joyce has a B.S. in Chemistry. She is a Certified Wastewater and Water Operator. She has 10 years experience in a wastewater laboratory. *Joyce will be discussing pH Tips & Tricks*

Chris Liveris - Chris has been in the water utility industry since 1978, and holds a Class A, State of Illinois Water Plant Operator license and is a licensed Water Supply Operator in the state of Wisconsin. Chris has worked for a variety of municipalities throughout his career where he has acquired extensive field, plant operations and management experience. Chris has operated zeolite softening and lime softening water plants as well as managing municipal water utility and public works departments. Chris has been with USA BlueBook since 2004 as a Senior Technical Advisor in the Technical Support Group. *Chris will be discussing products related to Flow Metering and Level and Pressure.*

Date and Location

June 12 - Waukegan - USA Bluebook Training Room, 3781 Burwood Drive, - phone 847-689-3000

Costs

\$ 25.00 for Illinois Section AWWA members - \$35.00 for non members

H2O 101 (DRINKING WATER BASICS)

Registration

8:30 am registration - Seminar starts at 9am

Earn up to 5 renewal training credit hours or professional development hours

Continental breakfast and lunch included - seminar to conclude by 3:00 pm

Description

This seminar is intended to provide basic waterworks information to elected officials and board members, entry level operators, office staff and other non-technical staff.

During this one day session, students will receive information on general waterworks operations, waterworks terminology, available water treatment options, components of a distribution system, the hydrologic cycle, basic regulatory requirements, unaccounted for water loss, differences between groundwater and surface water, what it takes to become a certified operator, responsibilities of the certified operator, the importance of customer service and the operators role, water sampling protocol, and general system maintenance tasks (fire hydrant flushing, valve maintenance etc...).

We will also be providing an opportunity to see examples of water system components (water services, main valves, fire hydrants, water meters). We will discuss the differences between public and private water agencies.

This will be an excellent opportunity to learn the basics, get your hands on some of the equipment and receive an overall picture of what makes a water system flow.

Speakers

John Donahue – John is the Assistant General Manager for the North Park Public Water District for the past two years. Prior to that time he was the Supt. of Water and Wastewater for the City of Geneva. He began his career in the water industry as a water and wastewater operator in 1980 for the Village of Plainfield. His operational, supervisory and management experience provide him with an excellent background to discuss the waterworks operations and the role it plays in the community. John will also be discussing future opportunities for younger workers as “baby boomers” begin to retire.

Brett Hanson – Brett is the Regional Manager of the Illinois Environmental Protection Agency, Rockford Office. He has been with the agency for the past 26 years and is a registered professional engineer. Brett will be discussing IEPA's role in the community and the importance of operators and regulatory compliance.

Karl Johnson – Karl is the Territory Manager for National Waterworks Company in Belvidere, Illinois. He will be providing a “hands on” opportunity to see what lies beneath the ground including b-boxes, curb-stops, water meters, fire hydrants and valves. If you're not sure what some of these things are, Karl will be able to explain them to you and show you how they work.

Dates and Locations

August 23 -Rockford - Clocktower Inn - 7801 East State St - phone 815-398-6000

Costs

\$35.00 for AWWA members \$50.00 for non members

WATER INFRASTRUCTURE AND SECURITY GUIDELINES/WISE

Registration

8:30 am. Earn up to 5 renewal training credit hours or professional development hours
Continental breakfast included - seminar to conclude by 3:30 pm

Description

The training session will provide an overview of the nation's first standard guidelines for protecting the public from potential malevolent acts and other threats by enhancing the security of water infrastructure systems. The guidelines—jointly developed by the American Society of Civil Engineers (ASCE) and the American Water Works Association (AWWA) with technical input from the Water Environment Federation (WEF)—are the result of the Water Infrastructure Security Enhancements (WISE) program. They were created under ASCE's American National Standards Institute-accredited standards development program. The guidelines address issues such as risk assessment, threat analysis, financial and communications planning, human resources management, operational maintenance, emergency response strategy, design upgrades for improving physical security and management and operating practices to reduce vulnerabilities to malevolent events. Guidelines for contaminant monitoring systems were also addressed.

The guidelines provide drinking water utilities with practical information to help implement improved security measures in new and existing facilities of all sizes.

In addition to addressing the WISE Program, the training will provide an overview of EPA's WaterSentinel Initiative which is a demonstration project to design, deploy, and evaluate a model contamination warning system for drinking water security. The project, which is being developed in partnership with a utility and laboratories, responds to a Homeland Security Presidential Directive that charges EPA to develop surveillance and monitoring systems to provide early detection of water contamination. This contamination warning system involves the active deployment and use of monitoring technologies/strategies and enhanced surveillance activities to collect, integrate, analyze, and communicate information. Timely warning of potential water contamination incidents allows for immediate response actions that can minimize the public health and economic impacts of contamination. WaterSentinel demonstrates the concept so that drinking water utilities of all sizes and characteristics can adopt and implement an effective contamination warning system.

Speakers

Bill Desing

Bill Desing, P.E. serves as the leader of CH2M HILL's firm-wide Security Services Group for Water and Wastewater Utilities. In this role he lead the development of methodologies and practices for delivering vulnerability assessments, emergency response plans, and security technologies. He has served as project manager or senior reviewer for more than 25 water and wastewater security projects including vulnerability assessments, emergency response planning, physical security system design, and water contamination early warning systems. He is assisting the U.S. EPA's Water Security Division with the development of their WaterSentinel Program which is designed to warn of distribution system contamination. He also was selected as a reviewer for the National Academy of Science's Report on Improving the Nation's Water Security. In addition, he was part of the team that developed the Water Infrastructure Security Enhancement (WISE) security guidance documents. Mr. Desing also has extensive experience in wastewater and water planning, design, construction and operations assistance. Mr. Desing has a bachelors degree in Civil Engineering from Marquette University as well as a Masters degree in Environmental Engineering from Marquette.

Date and Location

May 8 - Countryside - Park Place - 6200 Joliet Road - phone 708-588-1756

May 9 - Springfield - City Water Light & Power - 200 East Lake Drive - phone 217-757-8660 ext. 1012

Costs

\$ 25.00 for Illinois Section AWWA members - \$35.00 for non members

FEMA - NIMS, IS 700, 100 & 200 courses

Registration

8:30 am registration - Seminar starts at 9:00 am

Earn up to 5 renewal training credit hours or professional development hours

Continental breakfast and lunch included - seminar to conclude by 3:00 pm

Description

To obtain homeland security funds from the Federal Government, local governments must adopt the National Incident Management System (NIMS). This course has been designed to present an overview of the NIMS courses required for most employees working in local governments. The course is geared for those employees working in Public Utilities and Public Works. Through this course participants will gain the basic knowledge necessary to successfully complete the IS 700, 100 & 200 online tests through the FEMA *Independent Study Program*.

Speakers

John Flannery is a Safety & Training Instructor for the City of Naperville Public Utilities Division. His responsibilities include Emergency Preparedness and NIMS compliance for the Utilities Division. He is also a member of the Illinois Water Alert Emergency Response Network. Steering Committee assisting in NIMS compliance issues for the Mutual Aid compact. He has completed the Illinois Emergency Management Agency (IEMA) Professional Development Series and is pursuing the Illinois Professional Emergency Manager accreditation through IEMA. Also, John is pursuing a degree in Emergency Management through the FEMA Higher Learning Project. (Naperville)

Tammy Bennett, P.E., has been an engineer at Clark Dietz for 11 years. She is experienced in regulatory compliance, permitting, water treatment, water security, vulnerability assessments and emergency response plans, and trenchless technologies. She has worked on various projects involving alternative disinfectants for water systems and design and construction of water distribution systems for municipal projects. In her spare time, she is a volunteer with the Douglas County Emergency Management Agency and is pursuing completion of the IEMA Professional Development Series in Emergency Management. (Fairbury)

City of Elgin Fire Department. A representative from the City of Elgin Fire Department will lead the training at the Elgin site.

Dates and Locations

April 19 - Elgin - Heritage Ballroom at the Centre of Elgin - 100 Symphony Way

June 6 - Naperville - Naperville Electric Service Center, 1392 Aurora Ave., - phone 630-305-5215

June 11 - Fairbury - Walton Center - 100 W. Locust St - phone 815-692-2616

Costs

\$35.00 for AWWA members \$50.00 for non members

AWWA Teleconference: PIPELINE REPAIR

Thursday - March 8, 2007 11:00 a.m. - 2:30 p.m.

All water systems have the need to repair pipelines. There are certain steps that you need to take to ensure proper repairs, public safety, employee safety, system protection, and sanitation. This teleconference is a hands-on approach to developing a guide for preparing and implementing repairs, including working with private contractors.

Participants will learn to:

- * Identify components of a pipeline repair plan
- * Determine safety issues related to pipeline repairs
- * Critique your system repair programs
- * Ensure you identify public relations within your plan

In addition, a pipeline repair checklist will be provided to participants for use in their utilities

Who Should Attend?

- * Water distribution operators
- * Supervisors
- * Managers
- * Safety staff
- * Purchasing staff

\$60.00 Illinois Section AWWA members - \$75.00 non members includes lunch
Webstream at your office - \$45.00 per person

Two Locations...Edwardsville - Springfield or your office via webstream

Edwardsville Environmental Resources Training Center (ERTC) Southern Ill. University at
Edwardsville New Poag Rd. Edwardsville, IL Phone - 618-650-2030

Springfield City Water Light and Power Training Center - 200 East Lake Drive. - Springfield
Phone - 217-757-8660 ext. 1012

Check in begins at 10:30 am Teleconference 11:00 am - 2:30 pm

Registration:

Visa/Mastercard, AMEX and purchase orders. Fax your registration form with credit card or purchase order to: ISAWWA toll free 866-521-3591 or mail to: ISAWWA, 535 Yorkshire Drive, DeKalb, IL 60115 Questions? Call 866-521-3595 Or register online at <http://www.isawwa.org>

VIDEO LIBRARY RENTAL PROGRAM RESERVATION FORM

Example: Water Treatment Series #100 consists of 4 videos. Rental for this series of videos is \$20.00 for non AWWA members and \$10.00 for members or small systems. One master test will be included. If you'd like additional employees to participate in the viewing of the video and testing, copy the original tests for the amount you need. You will be invoiced/billed \$10.00 per additional test for non members and \$5.00 for members/small systems.

Please send me the following video:

- #100 Distribution Series
- #101 Water Treatment Series
- #102 Water Treatment Series
- #103 Water Treatment Series
- #104 Operator Math
- #105 Case Studies in Source Water
- #106 Routine Coliform Sampling
- #107 Security Risk Assessment
- #108 Alternative Disinfectants
- #109 Distribution System Repair, Rehabilitation and Replacement
- #110 Automation and Instrumentation
- #111 Taste and Odor in Drinking Water
- #112 Roles and Responsibilities of Operators, Managers, Owners
- #113 Surface Water Treatment
- #114 Groundwater Treatment
- #115 Storage and Distribution
- #116 Monitoring
- #117 Managerial Responsibilities
- #118 Financial Considerations
- #119 Emergency Preparedness
- #122 Water Storage - Teleconference
- #123 Water System Security - 4 video set
 - Water Treatment Plant Chemical Protection and Safety
 - Water System Security: A Video Field Guide
 - Utility Perimeter Security
 - Source Water Security and Protection
- #124 Protecting Against Waterborne Disease
- #125 Emerging Treatment Technologies
- #126 Oper. and Maint. Tool and Techniques to Protect Water Quality in the Dist. System
- #127 Maintaining Water Quality in the Distribution System
- #128 Preventing Waterborne Disease: Is your System at Risk?
- #129 The Shrinking Workforce: Hype or Crisis?
- #130 Emerging Issues in Water Utility Operations
- #131 Innovative Operator Tools - SCADA, AMR & GIS
- #132 Excellence in Water Quality Distribution
- #133 Basics of Waterborne Pathogens
- #134 Water Resource Alternatives: The Future of Sustainable Utility Practices

VIDEO LIBRARY RENTAL PROGRAM RESERVATION FORM

Reservations - Please print or type. Please order one video or series at a time.

Name: _____

Company/Utility: _____

Address: _____

City: _____

State: _____

Zip: _____

AWWA Member number: _____

Phone: _____

Fax: _____

Email: _____

Payment Information:

_____ Check enclosed made payable to: ISAWWA

_____ Purchase order number _____

_____ Please invoice me, attention: _____

_____ Mastercard or Visa

Card # _____

Exp Date: _____ Signed: _____

Enclosed please find the total amount of \$ _____

_____ **Date requested for video rental**

Visa/Mastercard, AMEX and purchase orders. Fax your registration form with credit card or purchase order to: ISAWWA toll free 866-521-3591 or mail to: ISAWWA, 535 Yorkshire Drive, Dekalb, IL 60115

Video Library: Videos are rented for a 10-day period, so you will want to plan when you anticipate showing the video. Please indicate at the bottom of this form, the date you would prefer. The cost for video rental is as follows: They are shipped first come, first serve as available.

AWWA members or small systems as defined by Illinois EPA - \$10.00 per video including one participant guide/test. Additional tests can be ordered for \$5.00 per participant.

Non-AWWA members and anyone not qualifying as a small water system will pay a \$20.00 video rental fee, plus \$10.00 for one participant guide/test. Additional tests can be ordered for \$10.00 per participant.

A Mastercard or Visa credit card number is required as a deposit. A charge of \$200 will be assessed for unreturned videos. There is no charge for shipping videos, although the participant is responsible for return postage and shipping. Illinois Section AWWA has grouped some videos that are shorter in length and will be renting them as "one video" to maximize renewal training credit along with minimizing shipping costs.

VIDEO LIBRARY RENTAL PROGRAM

Distribution Series #100: This series consists of 4 videos: Flushing and Cleaning, Centrifugal Pumps, Leak Detection and Repair, Case Studies in Distribution Systems - An Overview. Total renewal training credit for viewing all 4 videos and completing tests is one training credit hour.

Flushing and Cleaning: Find out what constitutes an effective flushing and cleaning program, discover tips to ensure that your flushing operation is effective, learn about mechanical cleaning procedures, and gain the tools you need to ensure the delivery of safe, clean drinking water. **Centrifugal Pumps:** This video examines what makes centrifugal pumps work, describes both single and double-suction pumps, and outlines a step-by-step approach to proper operation and maintenance. **Leak Detection and Repair:** You'll find everything you need to implement an active leak detection and repair program. In addition, you'll find practical advice, easy-to-follow procedures, and a discussion of common leak causes along with discussions on deteriorating materials, weak joints, earth movement and earth settlement. **Case Studies in Distribution Systems - An Overview:** Addresses funding and rehab issues, maximizing available financial resources, and strategies to use when presenting a case to public officials. Examine a specific 4-point strategy for developing a strong operations and maintenance program.

Water Treatment Series #101: This series consists of 3 videos: Jar Testing; Coagulation, Flocculation, and Sedimentation; Filtration. Total renewal training credit for viewing all 3 videos and completing tests is three quarter hour training credit. **Jar Testing:** A guide to successful cost-effective jar testing results. Industry experts explain how to get results at your treatment plant through proper jar testing procedures. **Coagulation, Flocculation and Sedimentation:** Explains, demonstrates and evaluates key strategies for optimizing the coagulation, flocculation and sedimentation processes. **Filtration:** This video explains the fundamentals of filtration, including conventional and direct filtration approaches, pressure and gravity filters, and physical and chemical processes. It also presents the pros and cons of various filtration processes and covers maintenance needs for filters.

Water Treatment Series #102: This series consists of 3 videos: Chlorine Safety; Turbidity Measurement/Particle Counting; Disinfection By-Product Control. Total renewal training credit for viewing all 3 videos and completing tests is three quarter hour training credit. **Chlorine Safety:** This video will give you vital information about the characteristics of chlorine gas, health effects of exposure, gas masks and other necessary safety equipment and how to use it, and storing, handling, transporting and inspecting chlorine containers. **Turbidity Measurement/Particle Counting:** Explains the role turbidimeters and particle counters play in measuring the clarity of water, assessing the pros and cons of each. It discusses nephelometric turbidimeters, various particle counters, and how both can be used effectively. Lastly, it shows why particle counting is becoming an important analytical tool. **Disinfection By-Product Control:** Get information on balancing the effective use of disinfectants while minimizing disinfection by-products, and explore the latest techniques for removing disinfection by-product precursors, including; enhanced coagulation, granular activated carbon and ozone combined with biological treatment and membranes.

Water Treatment Series #103: This series consists of 3 videos: Disinfection; Membranes; and Ozone. Total renewal training credit for viewing all 3 videos and completing tests is three quarter hour renewal training credit.

Disinfection: Presents the basics of the disinfection process and outlines various microbiological control options available. Gives you a close look at chlorine, chloramines, chlorine dioxide and ozone. Analyzes the advantages and disadvantages of disinfectants including cost and ease of use. **Membranes:** In addition to exploring membrane technology, you'll find out why membranes are becoming more competitive with conventional processes. This video also provides information on new developments in membrane technology, including microfiltration, ultrafiltration, nanofiltration and reverse osmosis. **Ozone:** Learn practical ozone applications at drinking water facilities, including examples of cities that use this disinfectant effectively. Plus, candid information on the pros and cons of ozone.

Operator Math #104: This one tape video gives operators a working knowledge of the chemical dosage formulas they need to know including: Feed rates for chlorine and other treatment chemicals; correct chemical dosages for water treatment and distribution system residuals; conversions of gallons per hour or pounds per hour to gallons per day or pounds per day; conversions of gallons per hour to pounds per hour. Renewal training credit - .25 hour (15 minutes) This video may be added to any other video order at no additional cost.

Case Studies in Source Water #105: This video will show you how to: Explore the basics of a sanitary survey; discover what can happen when a source is left unprotected; learn how source protection plans relate to land use control; find out how some utilities protect source water they don't control. Renewal training credit - .25 hour (15 minutes) This video may be added to any other video order at no additional cost.

Routine Coliform Sampling for Water Utilities #106: Improper sampling is one of the most common errors in water quality analysis. Routine Coliform Sampling for Water Systems is a training video that provides operators with approved, step-by-step procedures for taking water samples for coliform testing. Particular attention is paid to the all-important step of selecting sampling sites. The procedures shown comply with the Total Coliform Rule and the Safe Drinking Water Act. This video will help your utility avoid false test results and violations, while it helps you maintain public confidence in the quality of the water supply. Renewal training credit - .25 hour (15 minutes). This video may be added to any other video order at no additional cost.

Security Risk Assessment for Water Utilities #107 This is a videotape of the November 27, 2001 teleconference of the same name. Based on a research project conducted by Sandia National Laboratories for the AWWA Research Foundation, the teleconference video provides an overview of the project that will assist utilities in assessing their systems and developing measures to reduce the risks and mitigate the consequences of terrorist or other criminal attacks. The program is made possible by funding from the U.S. Environmental Protection Agency. The video will be most helpful to water utility management involved in operations, security, and security upgrades; state administrators and other public officials involved in utility security; and consultants working in utility security upgrades. Other topics covered during the 3-hour program include key security design principles, security technologies currently available, and how to select security consultants. Two experts in the field of security assessment—Jeffrey Danneels and Basil J. Steele, both with Sandia National Laboratories—give an overview of the tools used to support the assessment process and lessons learned from completed utility assessments. VHS, 3 hours renewal training credit. Produced by AWWA.

Alternative Disinfectants: Choices for the Future #108. Water utilities of all sizes soon will be faced with compliance challenges by the new U.S. Environmental Protection Agency Disinfection/Disinfectant By-Products Rule and the Long-Term 2 Enhanced Surface Water Treatment Rule. For many utilities, this may mean using alternatives to chlorine. Is your utility prepared to deal with this important change? You can find some answers in AWWA's 3½-hour video of its March 2001 teleconference **Alternative Disinfectants: Choices for the Future.** Experts in the field provide detailed information on alternative disinfectants and oxidants that will help you determine what's right for your utility.

- Use, availability, properties, advantages and disadvantages, application techniques, equipment considerations, and effect on DBPs of chlorine compounds, chloramines, chlorine dioxide, ultraviolet, ozone, and potassium permanganate
- The impact of new regulations on the use of chlorine
- Case studies on alternative disinfectants and oxidants in water treatment
- Costs of using alternative disinfection processes

3½ hours renewal training credit. Produced by AWWA.

VIDEO LIBRARY RENTAL PROGRAM

Distribution System Repair, Rehabilitation, and Replacement: What Every Operator Should Know #109 AWWA's November 2001 satellite teleconference video will help you make the best decisions for your utility. You will find out when and how to repair, rehabilitate, or replace worn-out distribution pipelines, and be up to date on the latest repair, replacement, and rehabilitation technologies, including trenchless methods. VHS, 3 hours renewal training credit. Produced by AWWA.

Automation & Instrumentation: Making the Most of New Tools and Technology #110 AWWA's November 2000 satellite teleconference video covering the following: Making the Most of Technology in Our Operation; Monitoring and Controlling Drinking Water Systems; The Process of Procuring and Building a SCADA System, Fort Collins Utilities - A Case Study; Houghton, Mi - Case Study; Tarrant Regional Water District and the SCADA System Experience. VHS, 3 hours renewal training credit. Produced by AWWA.

Taste and Odor in Drinking Water: Operational Tools and Techniques for Identification and Control #111 AWWA's 2000 satellite teleconference video covering the following: An Introduction to Taste and Odor Problems in Drinking Water; Controlling Tastes and Odors in Source Water; Controlling Tastes and Odors in the Treatment Plant; Controlling Tastes and Odors at the Distribution System; Control of Taste and Odor Utilizing Multilayer Aeration; Treatment of Earthy/Musty Odorants with PAC; Reservoir Management for Taste and Odor. VHS, 3 hours renewal training credit. Produced by AWWA.

Small Water Systems Video Series: The purpose of this Small Water Systems Video Information Series are to: 1) Develop new qualified small systems operators, 2) expand the abilities of existing operators, 3) prepare operators for civil service and certification examinations and 4) inform small systems managers and board members of their roles and responsibilities.

Small water systems vary from region to region. The material contained in this video series is presented to help the operator, manager or official with an understanding of the basic operation and maintenance aspects of your system and with information to help you analyze and solve operation and maintenance problems. This information will help you operate and maintain your system in a safe and efficient manner. Information is also provided on how to successfully manage and finance small water systems. Produced by Kenneth Kerri, Office of Water Programs, California State University, Sacramento and William Greenelsh, Greenelsh Productions.

#112 - Roles and Responsibilities of Operators, Managers, Owners and Elected Board Members (.5 hour renewal training credit)

#113 - Surface Water Treatment (2 volumes) (1.75 hour renewal training credit)

#114 - Groundwater Treatment (2 volumes) (1.75 hour renewal training credit)

#115 - Storage and Distribution (1 hour renewal training credit)

#116 - Monitoring (.75 hour renewal training credit)

#117 - Managerial Responsibilities (1 hour renewal training credit)

#118 - Financial Considerations (.75 hour renewal training credit)

#119 - Emergency Preparedness (.25 hour renewal training credit)

VIDEO LIBRARY RENTAL PROGRAM

[Water Storage \(Teleconference\) #122](#) This videotape of the American Water Works Association satellite teleconference *Water Storage* broadcast March 13, 2003 features a panel of experts discussing water storage tank issues. Topics include types of storage tanks, tank inspection, cleaning, security, sizing, location, and water quality. The video also provides a case study, and Q & A from teleconference viewers. 3 hours renewal training credit.

[Water System Security - set of 4 videos #123 - one hour renewal training credit for set of videos](#)

Water Treatment Plant Chemical Protection and Security

Security experts agree that people bent on destruction or disruption of water systems view chemical supplies as attractive targets because of their vulnerability and potential for harm. This video reviews: emergency response procedures to spills, security equipment and barriers, protecting chemicals in transport and storage, and cyber-terrorism against computerized chemical feed systems. VHS, 15 min. Produced by AWWA.

Water System Security: A Video Field Guide - Managers and operations personnel of small to medium-size water utilities will find this video very helpful as they assess and upgrade the physical and operational security of their systems. This guide emphasizes measures a water utility can take for better security against man-made threats. It covers the emergency preparedness plan; vulnerability assessments; mitigation measures for critical components; emergency response and recovery; and crisis communications. VHS, 20 min. Produced by AWWA

Utility Perimeter Security has been designed to give you a practical, effective overview on how you can tighten up perimeter security and ensure you have taken every reasonable measure to protect your utility from terrorism, vandalism, and other threats. This video covers all the basics you need to know, including: types of fencing, protecting and maintaining fencing, posted signs, landscaping for security, razor wire, locks, chains, and hardware, alarms, television monitors, cameras, and silent alarms, law enforcement and visitor ID procedures. VHS, 15 min. Produced by AWWA.

Source Water Security and Protection Source waters—both on the surface and underground—are the most difficult part of the water system to protect from intentional contamination or damage by vandals, criminals, and terrorists. Learn how to conduct a security review of water sources; security and detection measures available; public involvement; and response procedures if infiltration is detected. VHS, 15 min. Produced by AWWA. Edition: 2002, VHS

[Protecting Against Waterborne Disease #124](#) This operator training video explains the basics of waterborne disease and explores the long-term effects of the disease outbreaks in Walkerton, Ontario and Milwaukee, Wisconsin. 45 minutes renewal training credit.

[AWWA Satellite Teleconference: Emerging Treatment Technologies, #125](#) -This video presents information on advanced water treatment processes and technologies such as: ultraviolet, ozone, and membrane technology; determining the right processes for your system; comparisons of cost, operability, environmental considerations, and administrative difficulties; choosing the best treatment technologies for various pathogens; and, the advantages of these newer technologies. Four water industry experts are featured in the video: Gil Crozes, Ph.D., P.E., Manager, Carollo Engineer's Research Group; Karl G. Linden, Ph.D, Warren Faculty Scholar Assistant Professor, Department of Civil and Environmental Engineering, Duke University; Holly Shorney, Ph.D., P.E., Black & Veatch; and, Mark Waer, Ph.D., Black & Veatch. VHS - 180 minutes

AWWA Satellite Teleconference: Operations and Maintenance: Tools and Techniques to Protect Water Quality in the Distribution System, #126

This video of a satellite teleconference presents information on the sources of contamination in distribution systems and suggests steps, tools and techniques to solve this problem. Panelists include: Paul Carlisle, Construction and Maintenance Superintendent for the East Bay Municipal Utility District (EBMUD), gives tips on controlling sources of contamination; Mary Howell, President of Backflow Management Inc., discusses the importance of a cross connection control program; Paul Schwartz, University of Southern California Foundation for Cross Connection Control and Hydraulic Research, lists the elements of a cross connection control program; and, Mary Hicks, Superintendent for Water Treatment and Distribution at EBMUD, stresses the importance of a flushing program. The use of fire sprinkler systems for residential fire protection is discussed, along with the responsibility for the costs of such a program. Resources are given for more information on cross connection control. Quiz questions are given on the material discussed. VHS - 180 minutes

AWWA Satellite Teleconference: Maintaining Water Quality in the Distribution System, #127

John Dyksen, General Manager of Engineering and Technical Services for United Water New Jersey, gives an overview of maintaining water quality in distribution systems; Jan Routt, Water Quality Superintendent for West Virginia-American Water Company, discusses monitoring techniques for distribution systems; Janice Skadsen, Water Quality Manager for the City of Ann Arbor, Michigan, discusses disinfection considerations; Mark LeChevallier of American Water Works Service Company, discusses biofilm control and removal; Rich Theiss of AH Environmental Consultants, discusses unidirectional flushing; and, Gregg Kirmeyer of Economic and Engineering Services, Inc., discusses operation and maintenance of water storage facilities. 250 minutes - VHS

AWWA Satellite Teleconference: Preventing Waterborne Disease: Is your System at Risk? #128

This satellite teleconference presents a discussion on waterborne microbial risks that includes information on three barriers against these risks: source water protection, the first barrier; water treatment, the performance barrier; and, the distribution system, the final barrier. Also, troubleshooting a system's multiple barriers is discussed. 131 minutes -VHS

The Shrinking Workforce: Hype or Crisis? #129

With an aging population and low birth rates, the competition for highly skilled workers is expected to greatly intensify in many US industries in the very near future—the water and wastewater industries are no exception. Just a few things you should know: In the United States between 2000 and 2030, the 0-65 age group will grow by 28.6% while the 65+ population will grow by 107.9%, 35% of employees in the water and wastewater industry are eligible to retire in the next 10 years, 22% within the next five years, The number of people entering the trade labor pool is declining at a high rate. 180 minutes - VHS

Emerging Issues in Water Utility Operations #130

What “mega-trends” are on the horizon for utilities? What are the answers for questions about the future, especially involving infrastructure upgrades, greater regulatory controls and water quality standards? What about water shortages, competition and security? As older employees leave the workforce will their skills be lost forever?

You'll get answers to these questions and others out in the AWWA teleconference video, *Emerging Issues in Water Utility Operations*. You'll learn what utility professionals from across North America believe to be the challenges and issues facing utilities, including; monitoring and control system technologies, such as CAD and GIS, treatment technologies, transmission and distribution infrastructure. Most importantly, you'll see how these issues will impact your utility's customers, employees, managers and daily operations. Vital information for water utilities of all sizes. 2 hours. VHS

Innovative Operator Tools—SCADA, AMR and GIS - Video of the March 2006 AWWA satellite teleconference, #131

Just like pressure gauges, wrenches, and filters, newer technologies like SCADA (supervisory control and data acquisition), automatic meter reading (AMR), and Geographic Information Systems (GIS) are critical tools to help operators, supervisors, and managers provide safe and adequate supplies of water to their customers.

The demand for more efficient operations, water and power conservation, regulatory monitoring requirements, customer expectations, emergency response, and the potential shortage of certified operators in utilities of all sizes make SCADA, AMR, and GIS systems even more valuable. The teleconference focused on these tools, providing foundational definitions of the technologies, illustrating how they are used by utilities, and discussing how they affect operators and field staff.

Learn from a distinguished panel of experts on this subject, including Christopher Sosnowski from B&W Control Systems Integration, Rick Scott from City of Glendale AZ, Charles Kiely from D.C. Water & Sewer Authority, Marcellus Jones from Las Vegas Valley Water. 2 hours - VHS

Excellence in Water Quality Distribution #132

This video of AWWA's March 2005 satellite teleconference discusses practical ways to protect the water quality in water distribution systems. The discussion covers the new challenges facing operators with a specific focus on drinking water regulations that are affecting the way you operate your system. You'll also hear about security, learn how to work with customers, and look at these issues from the perspective from a small system. You'll get insight from a utility manager, an operator, a water regulations professional from the US and Canada, and a small systems utility manager on how to achieve excellence in water quality distribution. Edition: 2005, VHS - 2 hours.

Basics of Waterborne Pathogens #133

Waterborne pathogens. What are they? Where do they come from? What health problems do they cause? How are they detected in water? What are the best water treatment technologies?

Get the answers to these and other vital questions in *Basics of Waterborne Pathogens*, a professional training video for water treatment operators, civil and environmental engineers, water utility managers and supervisors, and water quality control personnel.

You'll learn from leading experts on waterborne pathogens:

- Eugene W. Rice, Ph.D., U.S. Environmental Protection Agency, Topic: Bacteria
- Michael Arrowood, Centers for Disease Control and Prevention, Topic: Protozoa
- David A. Battigelli, Clancy Environmental Consultants, Topic: Viruses
- Christine L. Moe, Emory University School of Public Health/CDC International Disease Branch, Topic: Waterborne Disease Outbreaks
- Peter Huck, University of Waterloo, Topic: Robustness of Drinking Water Systems

The video also covers outbreaks such as the Walkerton, Ontario E. coli outbreak that killed seven people and sickened 2,300 two years ago. VHS, approx. 3 hours. Produced by AWWA. Edition: 2002, VHS

Water Resource Alternatives: The Future of Sustainable Utility Practices #134

Water sustainability is a subject of vital importance to every city, large or small. How can we make sure water will be available to future generations? Explore in depth this increasingly important issue in the video of AWWA's November 2004 teleconference, "Water Resource Alternatives: The Future of Sustainable Utility Practices." Panelists discuss emerging practices such as desalination and aquifer storage. Learn what utilities are doing now and what you'll be doing in the future to assure an adequate water supply. 3 hours. Edition: 2004, VHS

Water Systems Operation and Maintenance #136

This series consists of 3 DVDs. (4.5 hours renewal training credit)

Wellhead Protection provides operators with information how to inspect small system and large distribution system wellheads. Emphasis placed on how to maintain a well and how to troubleshoot well and well pump problems. Procedures are provided regarding how to design and implement a well head protection program. **Hypochlorination** provides operators with information on how to inspect, calculate chlorine dosage, determine hypochlorinator settings and also to operate, maintain and troubleshoot hypochlorinators. Procedures provided to safely prepare and mix chlorine solutions, measure chlorine residual, and safely handle and store hypochlorite compounds (1.25 hours renewal training credit)

Water Storage Tanks provides information of the purpose of water storage facilities, tank materials and types of tanks. Emphasis placed on how to operate, maintain and disinfect tanks and how to protect them from contamination. **Sampling & Testing** provides information on how to collect samples for BACT, chlorine residual and also lead and copper. Procedures are provided on how to measure pH and chlorine residuals. **Inspecting a Pump Station** gives operators information on what they need to know to safely inspect and troubleshoot pump control panels (breakers, relays, contacts), measure amperage and voltage (using a volt-ohm meter) and properly lock out and tag out a system before performing maintenance tasks. Information is provided on how to identify and describe and basic components of a pump station. (1.5 hours renewal training credit)

Distribution Systems gives information on how to exercise valves and flush distribution system mains. Operators will also be able to disinfect mains after repairs or replacement and make or supervise repairs and fix leaks without jeopardizing water quality. Information on how to locate buried pipes and detect leaks. Importance of cross-connection control program is stressed. **Approaches to Compliance with Standards** provides information on how to keep your water system in compliance with drinking water standards. Information on how to take a systematic approach of identifying and investigating multiple approaches to achieving compliance. Emphasis on evaluating life cycle costs to determine most cost effective selection. (1.75 hours renewal training credit)

Public Outreach Program

Invitation to Participate

As a water professional, you know the value of water and the need to find qualified people to work in our treatment plants and as environmental engineers. The Illinois Section of the American Water Works Association (ISAWWA) is initiating a program to reach out to youths currently attending school to introduce them to not only the value of water as our most precious natural resource, but also to introduce the water industry as a viable option for future employment.

The Illinois Section has developed suggestions to assist local water utilities to connect with students at all levels – grade school through community college. Water utilities can be instrumental in energizing the workforce of the future. I enthusiastically encourage you to look through the enclosed packet of information. There are outreach suggestions that you can implement at various educational levels, depending on the schools in your area and the level of involvement you would like your facility to have. In addition, ISAWWA has an 11-minute DVD available entitled “Illinois Drinking Water – Safe, Reliable, Secure”. This DVD is suitable for ages 11 to adult, and it is an excellent tool with which to launch your outreach program – either in local schools or at your facility.

It's a simple fact that everyone needs a reliable source of potable water for life. By giving students an opportunity to explore water treatment and conservation, as well as careers in the water industry (operations, maintenance, laboratory, administration, engineering, etc.), we can help to ensure that there will be an abundant supply of water, with capable and trained professionals to design, build and operate water treatment facilities well into the future.

Please consider taking an active role in reaching out to area educators. A phone call to the schools in your area should provide you with the names of the appropriate science teachers who can be contacted. The ISAWWA is available to serve as a resource for any additional information that you or the local schools may need to implement this program. We are currently developing more specific guidelines that can be used in your outreach program. These should be available the early part of next year, if you're interested.

If you would like a copy of the DVD “Illinois Drinking Water”, please fill out the information below and fax to 866-521-3591. The Illinois Section will be recognizing water utilities that participate in this outreach experience. Thank you for taking the time to review this material.

Kyla Jacobsen, Chair

Public Outreach Project Committee

Heather Astwood, Lara Biggs, Lori Stenzel, Kristin Rehg,

Tini Misicka, Melanie VanHeirselee, Lisa Reisen, Kyla Jacobsen

Illinois Drinking Water DVD Order Form - Fax to 866-521-3591

Name: _____

Utility or Co; _____

Address: _____

City/State:Zip: _____

Contact Name: _____

Email Address: _____

Phone: _____

Fax: _____

All above information must be filled out. There is no charge for the DVD.

ELEMENTARY SCHOOL OUTREACH PROGRAM

There are numerous opportunities available to involve students at the primary or elementary grade school levels, depending on age. As a water professional, you are in a unique position to assist local educators introduce the importance of water treatment and water conservation in the schools in your area. Listed below are just some of the options available. These can be tailored to the specific needs and desires of the school and the students. ISAWWA will be happy to provide whatever additional assistance you may need to develop a specific program.

Purchase or borrow a book from ISAWWA that can be put on loan to area schools. Some of the titles available include:

- * "Water Fun for You" (a coloring book)
- * "Give Water a Hand Action Guide"
- * "The Story of Drinking Water"
- * "Water Magic: Water Activities for Students and Teachers"

Purchase or borrow a video/DVD from ISAWWA that can be put on loan to area schools. Some of the titles available include:

- * "Illinois Drinking Water – Safe, Reliable, Secure"
- * "Adventures of Ethel Mermaid and Tad Pole"
- * "Careers in Drinking Water"
- * "Earth Café"
- * "Professor Water I: Fantastic Facts about H₂O"
- * "The Story of Drinking Water"
- * "The Water Works: From Source to Tap"
- * "Whaddya Know about H₂O"

Offer tours of your water treatment facility.

Offer to have a professional from your facility make a presentation at the school. Any of videos listed above would provide an excellent introduction to the presentation.

Offer to assist schools to conduct a water-related science fair.

Offer to assist individual students with water-related science fair projects.

HIGH SCHOOL OUTREACH PROGRAM

Reaching out to science department educators at the high school level provides an excellent opportunity to create meaningful education experiences for their students. The following specific suggestions are designed for students in local area high schools:

There is a broad selection of books and videos/DVD's available through ISAWWA or from the AWWA Bookstore that can be used either in a classroom setting or in conjunction with a visit to your water treatment facility. For example, "*Illinois Drinking Water – Safe, Reliable, Secure*" shows the many ways drinking water touches our lives.

Offer to provide tours of your water treatment facility. This will expose students to the complicated process that is water treatment and will serve as background as they study chemistry, as well as the environmental and physical sciences.

Arrange to have an engineer, either from your facility or a consulting engineer, speak to a visiting class about the various disciplines in engineering that apply to water treatment – for example, civil, mechanical, electrical, chemical, structural and environmental.

Attend Career Day – Many high schools sponsor career days when local professionals are invited to explain career opportunities in their field. These are excellent opportunities to have one of the water professionals from your facility discuss career options in the fields of water treatment and environmental science.

Offer your facility as a resource for science fair participants. Water treatment facilities have the laboratory equipment and knowledgeable personnel necessary to assist students in completing first rate, and potentially prize-winning, science projects.

Develop a job shadowing program. Spending a day with one of the professionals at your water treatment facility will provide insight into the numerous career opportunities available in water treatment – operations, maintenance, administration, water quality, and engineering.

COMMUNITY COLLEGE OUTREACH PROGRAM

Students enrolled in community college or technical education programs are always in need of career counseling and on-the-job training. Water treatment facilities can assist in these efforts in several ways, which are outlined below.

Job Shadow Program

The purpose of this program is to expose young adults to career paths available at water utilities and public works departments. ISAWWA is working to develop some specific guidelines for job shadowing, but in general the program would function as follows.

Select one or more community colleges or technical schools in the nearby area and contact professors or administrators to find students who may be interested. Determine ahead of time which positions the students are interested in shadowing – distribution system maintenance, plant operations and maintenance, management/administration, water quality, etc.

Depending on how many students are interested and which positions they want to learn about, schedule one or more days in which small, manageable groups of students can visit your facility and observe specific tasks that are performed employees on a daily basis.

A job shadow event could last for all or part of a day, depending on your facility's capabilities.

If possible, a job shadow event should include an informational session where students are educated about careers at water treatment facilities (entry-level positions, education and certification requirements, typical salaries and benefits, etc.) and given some time to ask questions.

COMMUNITY COLLEGE OUTREACH PROGRAM

Internship Program

An internship program is the next step toward a career in the water industry after students have selected a career path to pursue. A water treatment facility internship program could focus on any of several positions: administration and management, water treatment plant operations and maintenance, distribution system operations, or laboratory. Furthermore, an internship program should be viewed by students as a pathway to a career, rather than just a summer job that does not have any bearing or impact on their future. A general framework for this program is as follows, and as with the job shadow day program, ISAWWA is working to develop a detailed set of guidelines.

Start by developing a formal job description for each internship position. This should include day-to-day responsibilities associated with the position, preferred educational background and skills, and estimated compensation rates. In conjunction with the budgeting process, you must also decide how long an internship will last (summer only, full year, etc.) and what employee(s) would be responsible for overseeing interns.

Students who have already participated in a job shadow day would be the easiest to market an internship program to, as they would already be familiar with your facility.

Additionally, your facility could send internship descriptions to career counselors at community colleges and technical schools, and advertise them in ISAWWA email updates and the job bank on the new ISAWWA web portal.

Perhaps your facility can start small, with one or two internship positions, which will help to pilot the program on a manageable scale and work out any issues before expanding to more interns.

SCOUTING OUTREACH PROGRAM

Working with Girls Scouts of the USA and Boy Scouts of America can be an easy and effective way to achieve youth education in the areas of water conservation and water treatment. Local scouting councils are an excellent point of contact to run programs that will cover some or all of the requirements for scouting awards dealing with water, environmental science and government.

To contact a local Girl Scout council, look under “Girl Scouts” in the phone book or use the council locator via their website at www.girlscouts.org/councilfinder. Similarly, to contact a Boy Scout council, look under “Boy Scouts” in the phone book or use their council locator at www.scouting.org/nav/enter.jsp?s=xx&c=1c. Each council should be able to put you in touch with a program specialist that can work with your utility in finding awards that would be applicable at the troop level or in organizing and offering larger badge workshops. Some of the programs currently promoted by scouting include the following:

Girl Scouts -

“Water Everywhere – Try It” badge (Brownies, grades 1-3)

“Water Wonders” proficiency badge (Juniors, grades 4-6)

Environmental and science-based “Interest Project Patches for Cadettes (grades 7-8) and Seniors (grades 9-12).

“Water Drop Patch” project, a joint program of the USEPA and GSUSA for all program levels. Additional information on this project is available at www.epa.gov/adopt/patch.

Boy Scouts –

Cub Scouts (grades 1-5) can work on Achievements and Webelos activities in the areas of citizenship and conservation.

Boy Scouts (11 years old and over) can work on their Environmental Science, Soil and Water Conservation, and Citizenship in the Community merit badge.

Venturing (young men and women from ages 14 to 20). Please refer to the list of activities listed in [High School Outreach Program](#) for specific suggestions.

Please refer to the list of activities listed in the [Elementary School Outreach Program](#) for specific programs that can be adapted to scouting groups.

Announcing the release of the New Illinois Section AWWA Portal. We have been working on this for the last year and are pleased to release it to you. It will be continually evolving so watch for updates on a regular basis.

What does the portal do?

Gives everyone access to their training records.

We have been tracking training provided by the Illinois Section AWWA since 1998. You may access those records online and print duplicate certificates. Also you will be able to check to see if you are registered for a seminar that has not yet occurred. In the future we will be offering to other approved trainers to host their training records.

Provides a forum for exchange of ideas.

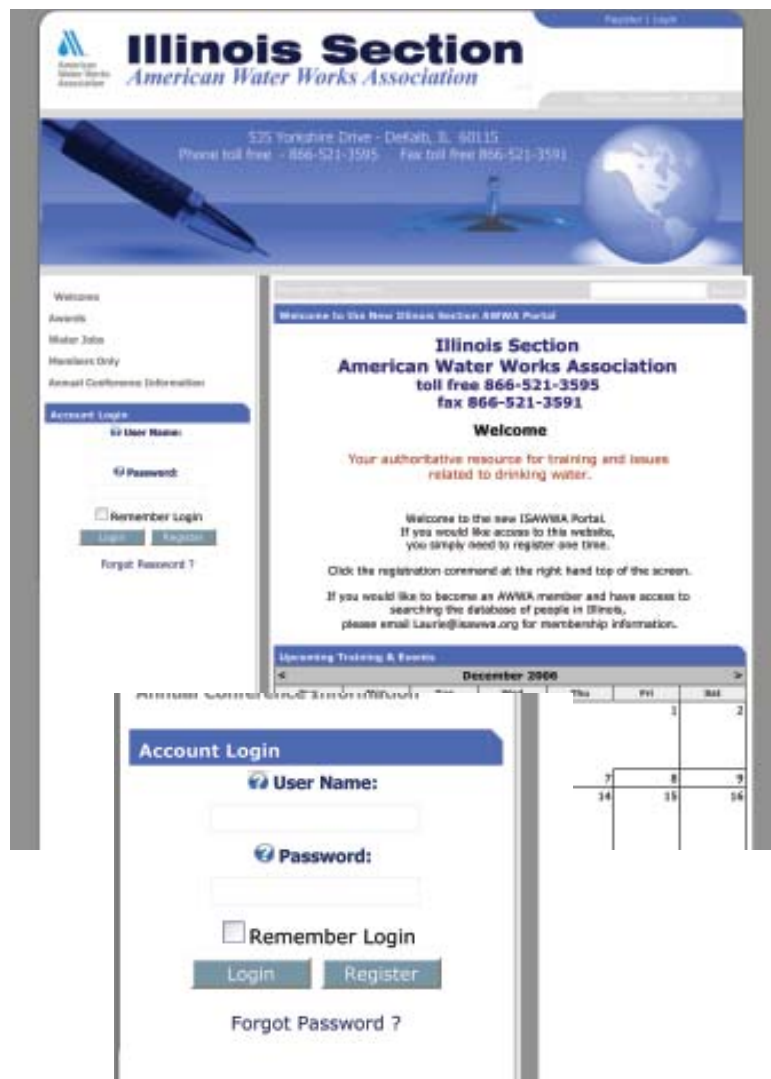
You can post a question and reply to other questions online. We encourage you to post questions and help other water professionals.

Employment Opportunities

We will continue to post job openings as we have on our website and will also offer for you to post a resume.

How do you access the portal?

In this mailing you will notice in the line above your name a login and password. You use this to login to the portal at <http://www.isawwa-portal.com> After you have logged in you may change your password.



Can new people be added to the “portal”?

Sure - on the sign on screen, click the “login” button. It will give you a registration screen. Then you will receive an email for you to “verify” and then you will be added to the portal.

What is the Members Only area?

In lieu of a membership directory, if you are an Illinois Section AWWA member you have access to search the portal records of over 17,000 water professionals in Illinois. You cannot download the information but can get access to name, company and phone number. If you would like their email address, we recommend you call them. If you are not an Illinois Section AWWA member and would like access to this information, please contact the Illinois Section office to become a member at 866-521-3595, fill out the application included in this mailing or go online to www.awwa.org and select “membership” in the upper right hand corner.

Can I check to see if I am registered for a seminar?

Yes, you can login to your record and after the registration has been processed it will show training that has not yet occurred. So therefore it will show zero contact hours until after the seminar has completed. At that point your hours will be added and a certificate mailed to you.

Will you still be mailing certificates?

For 2007 we will still mail certificates for those seminars completed. At some point in the future we may discontinue mailing certificates and allow you to print your own upon request. In the meantime, you can always print extra copies of your certificates at any time.

Can my operators group have our training listed on the calendar?

Sure - if you have operators group trainings or meetings we will be happy to list those on the portal. We can also expand that listing to include more information. Please contact the Section office to discuss your needs in more detail.

I’m interested in getting more involved - can I see what committees are doing there?

Yes, the committees each have their own space on the Portal. There you can see their minutes, strategic plan and members. Most committees have openings frequently and would be happy to have additional volunteers.

AWWA Memberships

Types of Memberships

Individual Memberships [Benefits Chart]

Individual membership provides numerous career and educational opportunities. Annual AWWA dues are listed below, and in addition there is an Illinois Section AWWA assessment. This is noted in the online application form.

Active Member — Annual Dues: \$130

An individual, such as a water utility employee, municipal official, public health professional, engineer, scientist, educator, consultant, or other person interested or serving in the field of water supply.

Benefits include

- * Networking with professional peers
- * Member pricing for education and conference registration
- * Keeping up to date on industry developments
- * Membership in your local AWWA section*
- * AWWA periodicals, including Journal AWWA, Opflow and MainStream**

Operations/Administrative Member — Annual Dues: \$62

An individual employed in any operating or administrative position by a water utility that has 1,000 or fewer service connections or any employee below the supervisory level in a utility that has more than 1,000 service connections. U.S., Canada, and Mexico only.

Benefits include

- * Member pricing to register for training
- * Earning CEUs for training, including online courses
- * Practical operations magazine, Opflow**
- * Member pricing on all AWWA Bookstore products
- * Membership in your local AWWA section*

Student Membership — Annual Dues: \$25

A student enrolled in a minimum of 9 credit hours (or the equivalent) of accredited classes. Proof of student status is required.

Benefits include

- * Peer networking
- * Access to AWWA Career Center
- * Member pricing on education and training
- * E-periodicals, including Journal AWWA, Opflow and MainStream**
- * Information on industry developments
- * Membership in your local AWWA section*

*In addition to your own section membership, you may also join other AWWA sections.

**All members outside of North America (regardless of grade), student members, and members with APO/FPO addresses will receive e-periodicals only. Print periodicals may be purchased for an additional fee.

2006 / 2007 OFFICERS AND TRUSTEES

OFFICERS

Chair	Kyla Jacobsen	847-931-6160	Jacobsen_K@cityofelgin.org
Chair Elect	Tom Skelly	217-789-2116 xt. 501	tomskelly@cwlp.com
Vice Chair	Jeff Musinski	847-360-0535	jeffmusinski@earthlink.net
Secretary-Treasurer	Terry McGhee	630-834-0100	mcghee@dpwc.org
Past Chair	John Callan	630-468-5077	jecallan@ati-ae.com
AWWA Director	Jeff Fischer	800-224-7579	fhaa_jeff@hotmail.com
Executive Director	Laurie Dougherty	866-521-3595	laurie@isawwa.org

TRUSTEES

District 1 Northwest	David Said	815-987-5700	david.said@ci.rockford.il.us
District 2 Northeast	Regina Lookis	847-866-2942	rlookis@cityofevanston.org
District 2 Northeast	Leonard Rago	312-251-8009	ragolm@cdm.com
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District 4 Southern	Colleen Ozment	618-457-8613	cozment@ci.carbondale.il.us
District 5 East Central	Steve Gerdes	309-454-9562	sgerdes@normal.org

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Student Activities	Kristin Rehg	815-459-1260	krehg@baxterwoodman.com
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Water Utility Council	Gerald Bever	815-787-3111	gbever@baxterwoodman.com
Young Professionals	Chad Laucamp	312-938-0300	Chad.Laucamp@cte-eng.com
Youth Education	Lori Stenzel	3090-692-5252	lstenzel@dailylabs.com

Annual Meeting '2007

Greeters	Len Rago	312-346-5000	ragolm@cdm.com
Registration	Dennis Ross	217-965-1566	otterross@dtmspeed.net
Tapping Contest	Rob Haley	847-949-3273	rhaley@mundelein-il.org
Taste Test	Bill Meinholz	312-236-9147	bmeinholz@abhengineers.com
Technical Arrangements	Jon Meyer	630-990-0302	jpmeyer@burnsmcd.com
Technical Program	Jeff Musinski	847-599-2687	jeffmusinski@earthlink.net

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**Illinois Section
American Water Works Association
TRAINING 2007
Seminars - Workshops
Video Library**

Look for your login
and password on
the mailing label for
the new portal!!