

**ISAWWA-IWEA
2006 JOINT
WATER
CONFERENCE**

**March 13-16, 2006
Springfield, IL**

Illinois Section AWWA

Officer & Committee Chair Training

Illinois Room

Monday - March 13 - 10 am

Illinois Section AWWA Board Meetings

Illinois Room

Monday - March 13 - 12 noon
includes lunch

Thursday - March 16 - 10:30 am

WUC Meeting - Lunch

Sangamon Room - 3rd floor

Monday - March 13th - working lunch

Education Committee

Wintergarden Room - 14th floor

Tuesday - March 14 - 4:00 pm

Past Chair Breakfast

Springfield - 3rd floor

Wednesday - March 15 - 7:30 am

Water For People Breakfast

Lincoln - 3rd Floor

Wednesday - March 15 - 8:00 am

Young Professionals Breakfast

Wintergarden - 14th floor

Wednesday - March 15 - 8:00 am

Safety Committee

Springfield - 3rd floor

Wednesday - March 15 - 2:00 pm

CONFERENCE EVENTS FOR YOUNG PROFESSIONALS

Young Professionals Technical Session

Tuesday, March 14th, 1:00-5:00 p.m.

Sapphire Room – 2nd Floor

Young Professionals Reception

Tuesday, March 14th, 5:00-6:00 p.m.

Lincoln Room – 3rd Floor

Free Continental Breakfast with Guest Speaker

Wednesday, March 15th, 8:00-9:00 a.m.

Wintergarden Room – 14th Floor

Tour of Sugar Creek

Wastewater Treatment Facility

Wednesday, March 15th, 9:00-11:00 a.m.

Round trip transportation will be provided at
Crowne Plaza main entrance

Student/YP Poster Presentation & Competition

Wednesday Afternoon, March 15th

2nd floor lobby area –

outside Diamond/Sapphire Rooms

Lincoln Library Tour - Wednesday

As an added attraction, the IWEA has arranged a group outing to the Abraham Lincoln Presidential Library and Museum at the close of the IWEA technical sessions on the afternoon of March 15 at 2pm. Combining scholarship and showmanship, the Abraham Lincoln Presidential Library and Museum communicates the amazing life and times of Abraham Lincoln in unforgettable ways. It has two theatres, one with live actors, many interactive exhibits and a cafe restaurant. For more information go to website <http://www.alincolnlibrary.com/museum/museum.html>.

Group transportation from the Crowne Plaza will be available and the total cost is an option on the conference registration form. Family members are welcome! Anyone who doesn't register with us or who will attend the technical sessions that afternoon can still visit the museum at their \$7.50 general admission. Parking is available off 6th Street between Madison and Mason streets. The cost is .50 cents per half-hour or a maximum of \$6.50. The museum will be open till 8:30 that day and reportedly takes about 3 hours to tour thoroughly."

Wednesday Morning Breakfasts

Young Professionals Events:

8am - Wintergarden room - 14th floor - Free breakfast and tour on Wednesday. The tour will be of Sugar Creek Wastewater Treatment Facility. Pre-registration is required for both, breakfast and tour. No additional charge - please mark reservation for these events on registration form.

Water For People: 8 am - Capital II

Free continental breakfast - come learn about Water For People - Wednesday morning. Please mark reservation for breakfast on registration form.

ISAWWA Past Chair Breakfast 7:30 am - Capital III

Must be an ISAWWA Past Chair to attend. No reservations required.

Free Continental Breakfast 8:00 am in the Exhibit Hall. Visit the exhibits and make your Water For People Silent Auction bids.

Schedule at a Glance

	Operators Pre- Conference	Technical Sessions	Exhibit Hall	Meals & Other Functions
Monday - March 13				
Registration opens				7:00 am
IWEA Business Meeting				10:00 am
ISAWWA New Officer/ Committee Chair Meeting				10:00 am
IWEA Business Luncheon				noon
ISAWWA Board Lunch and Meeting				noon
WUC Lunch and Meeting				noon
Afternoon Wastewater Technical Sessions		2:00 pm		
IWEA Banquet				6:00 pm
Tuesday - March 14				
Registration opens				7:00 am
Operators Pre-Conference / Workshop	8:30 am			
Morning Wastewater Technical Sessions		8:00 am		
Exhibit hall opening			11:00 am	
Water For People Silent Auction starts			11:00 am	
Top Ops Competition				11:00 am
Box lunch in exhibit hall			noon	
Water Taste Test			12:15 pm	
Afternoon all technical sessions		1:00 pm		
Young Professionals Technical Track		1:00 pm		
Lab Workshop		1:30 pm		
Meet & Greet /Awards Ceremony			5:00 pm	
Young Professionals Reception				5:00 pm
Exhibit hall closes			7:00 pm	
Wednesday - March 15				
Registration opens				7:00 am
ISAWWA Past Chair Breakfast				7:30 am
Water for People Breakfast				8:00 am
Young Professional Breakfast/Tour				8:00 am
Early Bird Sessions		8:00 am		
Exhibit Hall opens with continental breakfast			8:00 am	
Exhibit Hall closes			1:00 pm	
Water For People Silent Auction ends			11:55 am	
IWEA Board Meeting				12:00 pm
Lunch - Presentation of Fuller Award				12:00 pm
Lincoln Presidential Museum Tour				2:00 pm
Afternoon Potable Water technical Sessions		2:00 pm		
Tapping Contest				5:00 pm
Meter Madness Competition				5:00 pm
Thursday - March 16				
Registration opens				7:00 am
ISAWWA Breakfast - Installation of Officers				7:30 am
Morning Technical Sessions		9:00 am		
Conference Concludes		12:00 pm		

Technical Session Recap

	Waste Water	Joint Topics	Drinking Water
Monday	2:00 - 5:00 Stretching Capacity		
	2:00 - 5:00 Regulatory		
Tuesday	9:00 - 11:45 Collection Systems	8:30 - 4:30 Operators Precon	1:00 - 5:00 Water Quality
	1:30 - 5:00 Process Operations	8:00 - 11:45 Source Water	
	9:00 - 11:45 Laboratory	1:00 - 2:30 Customer Service	
	1:30 - 4:30 Lab Workshop	1:00 - 5:00 Young Professionals	
		1:00 - 5:00 Operations	
Wednesday	8:30 - 11:45 Wet Weather	8:00 - 11:45 Management	8:30 - 11:45 Engineering
	8:30 - 11:45 Biosolids and Nutrient Removal	2:00 - 5:00 Management	8:30 - 11:45 Water Quality
		CANCELLED Digital Workshop	2:00 - 5:00 Distribution
			2:00 - 5:00 Operations
Thursday			9:00 - 11:45 Engineering
			9:00 - 11:45 Distribution
			9:00 - 11:45 Regulatory

10:00 am IWEA Business Meeting - *Ruby Room*
12:00 noon IWEA Luncheon - *Emerald Room (ticket required)*

Technical Sessions

Stretching Capacity Session *Ruby Room - 2nd floor*

2:00 pm- IFAS Cures the Nitrification/Denitrification Blues
Richard Pehrson, Executive Vice President, Entex Technologies Inc.

2:30 pm - Integrated Fixed Film and Activated Sludge Process in Galesburg
Greg D. Payne, P.E., Process Engineer, WesTech Engineering

3:00 pm - SRT Control Enhancement for SBR Operation
Jessica B. Noegel, ITT-Sanitaire

3:30 pm - Process Modeling to Get the Most Out of Existing Treatment Facilities
Gary F. Shimp, Project Manager, Black & Veatch

4:00 pm - Investigation of Ammonia-Oxidizing Bacteria, Nitrite-Oxidizing Bacteria and Total Biomass of the Freeport WWTP Nitrifying Biological Aerated Filter
George Sprouse, Supervising Engineer/Graduate Student, MWH/Northwestern University and Martina Hausner, Assistant Professor, Northwestern University

4:30 pm - Illinois Golf Course Scores a Hole-in-One With New MBR System
Sanjay Patel, BSChE, Sales Engineer, Membrane Applications, Enviroquip, Inc.

Regulatory Session *Diamond Room - 2nd floor*

2:00 pm - Changes to the National Pretreatment Program, and Requirements for Categorical Industrial Users Discharging to POTWs Without Approved Pretreatment Programs
Matt Gluckman, Pretreatment Program Manager, US EPA Region 5

2:30 pm - New Initiatives in Illinois Water Quality Standard Regulations
Bob Mosher, Supervisor, Water Quality Standards Section, IEPA Bureau of Water

3:00 pm - BREAK

3:30 pm - The Metropolitan Water Reclamation District of Greater Chicago's Efforts to Reduce Pharmaceuticals That Enter the Water Reclamation Plants
Catherine O'Connor, Research Scientist, Metropolitan Water Reclamation District of Greater Chicago

4:00 pm - From Interim Limits to TMDLs: How Will Nutrient Regulations Impact You?
Matthew L. Smith, Project Engineer and Jane M. Carlson, P.E., Strand Associates, Inc.

4:30 pm - Does Your Wastewater Treatment Facility Comply with National Fire Protection Association Standards?
Tom Bachman, P.E., Vice President, Triad Engineering, Inc.

TUESDAY - MARCH 14

Daily Schedule Overview

- 8:00 am - **Technical Sessions Start** - 2nd and 3rd floors
- 11:00 am - **Exhibits Open till 7pm** - 1st and 3rd floors
- 11:00 am - **TOP OPS Competition** - ground floor lobby area
- 12:00 noon - **Box Lunch** - floors 1 and 3 exhibit rooms
- 12:15 pm - **Water Taste Test** - Exhibit hall - 1st floor
- 3:00 pm - **Fluoridation Awards** - Exhibit hall - 3rd floor - IDPH booth
- 5:00 pm - **Putting Green\$ for the Science Fair** - Exhibit hall - 1st floor
- 5:00 pm - **Meet and Greet** - floors 1 and 3 exhibit rooms
- 5:00 pm - **YP Reception** - Lincoln Room - 3rd floor
- 6:00 pm - **Awards** - Exhibit hall - 1st floor

Operators Preconference *Emerald Room - 2nd floor*

8:30 am - **Safe Handling of Water and Wastewater Chemicals** - *Geza Ehrentrea, Project Manager, Viking Chemical Company*

10:00 am - **BREAK**

10:30 am - **IDOT Requirements Concerning Traffic Control** - *Al Juskenas, Illinois Department of Labor, Acting Manager, Safety Inspection and Education,*

11:00 am - **IDOT Requirements Concerning Traffic Control** - *Dennis Huckaba, Illinois Department of Transportation*

12:00 noon - **Box lunch in the exhibit hall** - *ticket required for lunch*

1:00 pm - **Water / Wastewater Control Panel Maintenance** - *Mark E. Price, Vice-President, Electric Controls Company*

2:15 pm - **BREAK**

3:00 pm - **Maintenance Strategies For Centrifugal Pumps** - *Robert G. Madura, Central Lake County Joint Action Water Agency*

3:45 pm - **Valve Maintenance, Valve Repair, and Valve Replacement** - *Rich Brodhead, Henry Pratt Co.*

Water Operator Renewal Training Credits

Collection Systems Session *Ruby Room - 2nd floor*

9:00 am - **Flow Monitoring and Smoke Testing Provides Valuable information on Sanitary Sewer problems** - *Michael Simpson, President, M.E. Simpson Co., Inc.*

9:30 am - **Why There is a Need for Improved Characterization of Wet-Weather Flows**
Professor R.Y.G. Andoh, Hydro International

10:00 am - **BREAK**

10:15 am - **Let's Take Our Four Largest Wastewater Lift Stations Out of Service This Summer and Not Lose Any Sleep At Night: A Case Study**
Joseph V. Pisula, P.E., Vice President, Donohue & Associates, Inc.

10:45 am - **Riders on the Storm** - *Patrick Stevens, P.E. - ADS Environmental Services*

11:15 am - **Sanitary Sewer Infrastructure Assessment in the City of Peoria, Illinois**
Tim Leach, P.E., Director of Planning and Construction, Greater Peoria Sanitary District and Emily J. Wehmeyer, P.E., Staff Engineer, Clark Dietz, Inc.

Laboratory Session *Illinois Room - 3rd floor*

9:00 am - Review of Bioassays Used to Measure the Activity of Organic Contaminants in Wastewater and Biosolids and Their Application to Assessing the Efficiency of Wastewater and Biosolids Treatment - *Geeta Rijal, Microbiologist III, Metropolitan Water Reclamation District of Greater Chicago*

9:30 am - Review of Whole Effluent Toxicity (Wet) Results by Wastewater Treatment Plant Management
James Zmuda, Microbiologist IV Metropolitan Water Reclamation District of Greater Chicago

10:00 am - BREAK

10:15 am - Additional Anaerobic Digestion Tests for Evaluating Vector Attraction Reduction of Biosolids *Heng Zhang, MWRDGC*

10:45 am - Sample Collection Options for Low Level Mercury Monitoring
Patrick O'Meara, Metals Department Supervisor, STL North Canton

Source Water Session *Governor Room - 3rd floor*

8:00 am - Storm Drain Stenciling Program at Pontiac Illinois
Paul Ritter, Teacher, Pontiac Township High School and Dave Sullivan, Superintendent, Pontiac WWTP

8:30 am - Aquatic Invasive Species in Illinois (Carpe Carp!!)
Steven J. Shults, Microbiologist, Aquaculture and Aquatic Nuisance Species Program Manager, IDNR

9:00 am - Attracting Dragonflies and Damselflies to Constructed Wetlands
Cathy P. White, Village of Wauconda, Director of Environmental Quality

9:30 am - Estimating Industrial Hydrologic Footprints
Sachin Pradhan (Graduate Student) or Paul R. Anderson (Associate Professor), Department of Chemical and Environmental Engineering, Illinois Institute of Technology

10:00 am - BREAK

10:15 am - Water Resource Assessment for the Fox River Watershed: The Role of Wastewater Reuse
Arijit Sarkar, M.S. Chemical Engineering, and Paul R. Anderson, Associate Professor of Env. Engineering Illinois Institute of Technology, Chicago, IL

10:45 am - Wastewater Treatment & Land Application: A Case Study in An Outskirt Town in Chicago Metropolitan Area
Fenghua Yang, Jeremy C. Lin, Client Manager, Lintech Engineering, LLC

11:15 am - Watershed Modeling to Evaluate Water Quantities and Qualities at Intakes of Small Drinking Water Systems
Deva K. Borah, Ph.D., P.E., Research Hydrologic Engineer, Illinois State Water Survey, Champaign, Illinois

TUESDAY - MARCH 14

Process/Operations Session *Ruby Room - 2nd floor*

1:30 pm - Are you Spending Quality Time with Your Clarifiers?

Sam Jeyanayagam, Ph.D., P.E., DEE, Senior Associate, Malcolm Pirnie, Inc.

2:00 pm - The Next Generation in Screening Technology- How Fine Is Fine Enough?

Marcia Sherony, Western and Industrial Regional Manager, Headworks Inc.

2:30 pm -The use of Hydrodynamic Vortex Separators as Contact Chambers for Disinfection

Professor Robert Y.G. Andoh, Group Technical Director, Hydro International

3:30 pm - Decomposing Barley Straw to Control the Growth of Blue Green Algae

Syed F. Jaffery, Graduate Student, Southern Illinois University Edwardsville

4:00 pm - How to make domestic lagoons meet new BOD, TSS, NH3, & P Limits

John Hinde President of Air Diffusion Systems

4:30 pm - Options for Wastewater Lagoons to Meet New Effluent Limits

Ted R. Gietl, P.E., Crawford, Murphy & Tilly, Inc.

Young Professionals Session *Sapphire Room - 2nd floor*

1:00 pm - Innovative Approaches to Managing Ion Exchange Residuals*

Amrou Atassi, P.E., Project Engineer, CDM

1:30 pm - Tertiary Filter Pilot Testing at Galesburg Sanitary District

Amanda J. Withers, E.I., Environmental Engineer, Crawford, Murphy & Tilly, Inc.

2:00 pm - UV Disinfection for Groundwater Supplies: A Case Study*

Kristin J. Reh, Baxter & Woodman Inc., Consulting Engineers

2:30 pm - BREAK - visit the two floors of exhibits

3:00 pm - Defeating Environmental Uncertainties in Utility Permitting*

Christopher M. Meier, EIT, Engineer - Environmental, Water Business Unit Consoer Townsend Envirodyne Engineers, Inc.

3:30 pm - System Monitoring for Water Distribution System Analysis*

Catherine Hurley, Associate Engineer, MWH

4:15 - Chicago Water Use - Steps to Sustainability

Yi Meng, PhD Candidate, Department of Chemical and Environmental Engineering, Illinois Institute of Technology

4:45- Overview of the Young Professionals Community

Chad Laucamp, P.E. Consoer Townsend Envirodyne Engineers, Inc.

Customer Service Session *Illinois Room - 3rd floor*

1:00 pm - Tapping Into the Knowledge of Frontline Employees - Karen H. Cooper, Manager Business Services, American Water

1:30 pm - Tracking Water Quality with GIS Application - Nadine Miller, Water Quality Supervisor, City of Rockford Larry Pierce, Water Quality Technician, City of Rockford

2:00 pm - Rockford's Inner-Governmental Delinquent Account Collection Agreement

David A. Said, Customer Service Manager, City of Rockford and Michael L. Robertson, ITS Supervisor, RRWRD

Water Operator Renewal Training Credits - note*

Water Operator Renewal Training Credits

Lab Workshop Sangamon Room - 3rd floor - 3 Hour Workshop

1:30 pm - Light up! A Hands-on Workshop using the Bacterial Bioluminescence Test to Monitor Water and Wastewater Quality - NOTE - Participants must register for this afternoon workshop on registration form. Limited to the first 25 participants - workshop will continue until 4:30 pm.

Sonia O'Dell, Lab Analyst, Fox Metro Water Reclamation District; Randy Hummer, Lab Supervisor, Fox Metro Water Reclamation District; David C. Deardorff, P.E., CHS, Regional Representative, Strategic Diagnostics, Inc,

Water Quality Session Governor Room - 3rd floor

1:00 pm - Avoiding Unintended Consequences Related to the Lead and Copper Rule and Corrosion Control - Christopher P. Hill, Senior Project Engineer, Malcolm Pirnie

1:30 pm - Controlling Biological Growth in Water Distribution Systems: The Role of Natural Organic Matter - Amos Au, Water Process Specialist, Greeley and Hansen

2:00 pm - Controlling Lead and Minimizing Deposition in Distribution Systems
Amrou Atassi, P.E., Project Engineer, CDM

2:30 pm - BREAK visit the two floors of exhibits

3:00 pm - Water Age Impacts on the Distribution System - Candace L. Billek, Project Engineer, Strand Associates, Inc.

3:30 pm - City of Aurora Responds to a Water Quality Issue - Bernie Held, Water & Wastewater Group Manager, Crawford, Murphy & Tilly, Inc., Theresa O'Grady, Project Engineer, Crawford, Murphy & Tilly, Inc. and Roger Goodson, Interim Superintendent of Water Production, City of Aurora

4:00 pm - Well of Deception - Don Anderson, Southern Illinois University (retired)

4:30 pm - Public Water Supply Security and Emergency Response: An Environmental Laboratory Perspective - Laura Snell, Marketing Analyst, Underwriters Laboratories Inc.

Operations Session Diamond Room - 2nd floor

1:00 pm - Innovative Methods for Collection System Management - Mark Kollitz, P.E., Water Management Group Manager, Woolpert, Inc.

1:30 pm - Effects of Plumbing Corrosion Control in Potable Systems on Compliance With Wastewater Effluent Limits for Copper - Pavel Hajda, PhD, P.E., Process Engineer, Baxter & Woodman, Inc.

2:00 pm - Status of UV Systems - Where are we going? - Gary Hunter, Senior Wastewater Process Specialist, Black & Veatch Corporation

2:30 pm - BREAK visit the two floors of exhibits

3:00 pm - Client and Staff input on design using 3D CADD and other tools to reach consensus
Robert Bernas, CADD Manager, Consoer Townsend Envirodyne Engineers, (CTE) and Hugh Carter, CADD Manager MWRDGC

3:30 pm - In-situ Collection and Distribution System Rehabilitation: What Contractors Know That Engineers Should Too - Kirk Hipps., CTE

4:00 pm - Electrical Safety in the Water and Wastewater Industry - Dan Dragan, P.E., Associate, Greeley and Hansen

4:30 pm - Online Training and Capital Improvement Projects, A match made in heaven. - Laura Tegethoff, President, 360water Inc.

WEDNESDAY - MARCH 15

Daily Schedule Overview

- 7:30 am - Past Chair Breakfast - Springfield Room - 3rd floor
- 8:00 am - Exhibit Halls Open with Continental Breakfast
- 8:00 am - Water for People Breakfast - Lincoln Room - 3rd floor
- 8:00 am - Young Professional Breakfast - Wintergarden Room - 14th floor
- 8:00 am - Technical Sessions Start - 2nd and 3rd floors
- 9:00 am - Young Professional Bus Tour Departs - ground floor exit
- 11:55 am - WFP Silent Auction Bidding Ends
- 12:00 noon - Fuller Award Lunch - Emerald Room - 2nd floor (ticket required)
- 12:00 noon - IWEA Board Meeting - Wintergarden Room - 14th floor
- 1:00 pm - Exhibit Halls close
- 2:00 pm - Lincoln Museum Tour Departs - ground floor exit
- 5:00 pm - Tapping Contest - Exhibit hall - 1st floor
- 5:00 pm - Meter Madness Contest - Exhibit hall - 1st floor

Wet Weather - Sangamon Room - 3rd floor

8:30 am - Combined Sewer Separation - Modeling and Alternatives Analysis

Gregory P. Kacvinsky, P.E., Senior Staff Engineer, Clark Dietz, Inc.

9:00 am - Evaluation of Innovative Technologies for Wastewater Treatment and Wet Weather Flows at Evansville, Indiana - Terrence Boyer, P.E. - Clark Dietz, Inc. and Mark Harrison, P.E. - Bernadin, Lochmueller & Associates, Inc.

9:30 am - Gaining Approval for a Wet Weather Treatment System - Philip Gray, P.E., XCG Consultants, Inc.

10:00 am - BREAK - Visit both exhibit floors!

10:15 am - How to Address Wet Weather Issues Through Integrated Sewershed Modeling at Low Cost
Rizwan Hamid, P.E, AQUALYZE, Inc.

10:45 am - Integrating Collection and Receiving Water Quality Models for CSO Long Term Control Planning - Mike Hulley, XCG Consultants, Inc., Martin Umberg, Greater Cincinnati Metropolitan Sewer District and Joseph Koran, Greater Cincinnati Metropolitan Sewer District

11:15 am - Strategies Used to Minimize the Adverse Effects of Wet Weather Flows on Activated Sludge
Brian Jensen, P.E. , Vice - President, Donohue and Associates.

Management Session *Governor Room - 3rd floor*

Water Operator Renewal Training Credits

8:00 am - Options for Increasing Water Supply Capacity for the City of Decatur

Mr. Keith Alexander, Director of Water Management, City of Decatur, Illinois and Mr. T. Joe Johnson, P.E., Senior Project Manager, MWH

8:30 am - Making a Case for Rate Studies

Robyn L. Doescher, Baxter & Woodman Inc., Consulting Engineers

9:00 am - How Healthy Are Your Utility's Financial Fundamentals?

Howard Hoover, Senior Consultant, Raftelis Financial Consultants, Inc.

9:30 am - Energy Management and Energy Savings - How to Maximize Your Dollars and Sense

Patrick E. Clifford, P.E., Project Manager, CTE/AECOM

10:00 am - BREAK - visit both exhibit floors

10:15 am - Why pay the mark up? Purchase Major Equipment prior to Construction Contract Letting

Dennis Duffield, P.E. City of Joliet Public Works Dir., Chris Ulm, P.E. Project Manager, Strand Associates, Inc. were learned that could greatly improve the advance procurement process for future projects of any size.

10:45 am - Contractor Prequalification

Michael H. Winegard, P.E. Vice President Consoer Townsend Envirodyne Engineers, Inc.

11:15 am - Preparing a Residuals Bid Package and Selecting a Contractor

Ted Merrell, Co-Owner, Merrell Bros., Inc.

Biosolids and Nutrient Removal Session *Illinois Room - 3rd floor*

8:30 am - Biosolids mineralization in an anaerobic/aerobic combined reactor system

Prathap Parameswaran, Graduate Student, Department of Chemical and Environmental engineering IIT

9:00 am - Material Handling Challenges of Heat Dried Biosolids

Patrick Carnahan, P.E., Triad Engineering Inc.

9:30 am Review of Applied Power Ultrasound for Water and Wastewater Treatment - Jun Yoshitani,

P.E. President Bioenergy & Environment, Inc.

10:00 am - BREAK - Visit both exhibit floors

10:15 am - Case Studies of Chemical and Biological Phosphorus Removal Processes - Which is Right for You?

Steve Arant, P.E., DEE, Senior Wastewater Engineer, Donohue & Associates, Inc.

10:45 am - Design of Biological Phosphorus Removal at St. Joseph, Illinois

Terrence Boyer, P.E., Clark Dietz, Inc.

11:15 am - Struvite, Sidestreams and Phosphorus Removal: Issues and Control Strategies

Bill Marten, P.E., Donohue & Associates

WEDNESDAY - MARCH 15

Water Quality Session - *Diamond Room - 2nd floor*

8:30 am - Atrazine: From Problem to No Problem

Tom Skelly, Water Division Manager, City Water, Light & Power

9:00 am - Chlorine Dioxide - Is it Right for You?

Heather Hogel, Account Manager, International Dioxide - a DuPont Company

9:30 am - Operational Changes and Noticeable Water Quality Improvements in Rockford

Tim Holdeman, Water Superintendent, City of Rockford

10:00 am - BREAK

10:15 am - Water Quality Management: How to Structure it Within a Utility

Melissa C. Moran, PE, DEE Senior Associate Malcolm Pirnie, Inc. - Indianapolis, IN

10:45 am - UV-Oxidation Using UV and Hydrogen Peroxide for the Control of Taste and Odor in Potable Water

Mike Leach, P. Eng., Sales Manager, Environmental Contaminant Treatment Trojan Technologies Inc.

11:15 am - Water Fluoridation - Making a Difference in the Health of Your Community

Thomas G. Reeves, P.E. National Fluoridation Engineer Centers for Disease Control and Prevention

Water Operator Renewal Training Credits

Engineering Session - *Sapphire Room - 2nd floor*

8:30 am - Construction and Start-Up and Operation of a 60 MGD Submerged Membrane Facility on Lake Michigan *Mark C. White, Project Manager, CDM*

9:00 am - Hydrogen Peroxide, a Low-Cost Option for Arsenic Removal from Groundwater

Thomas R. Holm, Geochemist, Illinois State Water Survey

9:30 am - Radium Removal Strategies at the Village of Lake Zurich, Illinois

David L. Talbott, P.E., Project Manager, Clark Dietz, Inc.

10:00 am - BREAK - visit both exhibit floors

10:15 am - Membrane Pilot Plant on Lake Erie *Daniel R. Cutshaw, P.E., Project Manager; and Darren S. Wells, P.E., Project Manager; GRW Engineers, Inc.*

10:45 am - Ozone for Taste and Odor Control at Charleston, Illinois

Ty Besalke - Project Manager, Crawford, Murphy & Tilly, Inc., Bill Bosler, WTP Supt., City of Charleston

11:15 am - Surface Water Treatment Utilizing Membranes: A Case Study

David W. Rodden, P.E., Vice President and Brian R. Buchheit, P.E., BCEE, Senior Environmental Engineer, Henry, Meisenheimer & Gende, Inc.

Water Operator Renewal Training Credits

Management Session - *Governor Room - 3rd floor*

2:00 pm - The New Forsyth, IL WTP - a Model for Program Management

Steve Himmell, Principal of Water / Wastewater Engineering Jim Ankrum, Director of Marketing Larry Coloni, Village of Forsyth Public Works Director

2:30 pm - New Installment Purchase Financing Options for Water Storage Tanks

Randy Moore, Vice President Market Development, Utility Service Co., Inc.

Water Operator Renewal Training Credits

Management Session continued - Governor Room - 3rd floor

- Water Operator Renewal Training Credits
- 3:00 pm - Water for Northeastern Illinois, Where do we go from Here?**
Bob Sasman, Consulting Hydrologist
 - 3:30 pm - Sodium Hypochlorite for Water Disinfection, Should You Buy It or Make Your Own? - An Economic Evaluation**
Alberto Garibi, OSEC Product Manager, USFilter / Wallace & Tiernan
 - 4:00 pm - Water Conservation Ordinances - What Are They and Do They Work?**
Jeffrey W. Freeman, P.E., Senior Project Manager, Engineering Enterprises, Inc.
 - 4:30 pm - Third Part Audit of Water Treatment Plants**
Gregory D. Cargill, P.E., DEE, Senior Project Manager, Melissa C. Moran, P.E., DEE, Senior Associate
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Distribution Session Diamond Room - 2nd floor

- Water Operator Renewal Training Credits
- 2:00 pm - Distribution System Water Storage Tank Sizing - How Large is Too Large**
Harry D. Harman, P.E., Senior Project Manager, Baxter & Woodman, Inc.
 - 2:30 pm - Today's Composite Elevated Storage Tanks**
Stephen W. Meier, P.E., S.E., Vice President, Engineering and Technology Tank Industry Consultants
 - 3:00 pm - Effective Water Storage Tank Inspections - Kirt Ervin, P.E., Utility Service Co., Inc.**
 - 3:30 pm - Mixing in Water Storage Tanks - AwwaRF Project Update**
Michael Duer, P.E., Sr. Design Engineer, Tideflex Technologies, Inc.
 - 4:00 pm - Guide to the Design of Water Transmission Pipelines**
Richard D. Mielke P.E., Regional Engineer, Northwest Pipe
 - 4:30 pm - Horizontal Directional Drilling with 12-inch Ductile Iron Pipe in the Village of Franklin Park, Illinois - David L. Talbott, P.E., Project Manager and Satish Menon, P.E., Project Engineer, Clark Dietz, Inc.**
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Operations Sessions Sapphire Room - 2nd floor

- Water Operator Renewal Training Credits
- 2:00 pm - Identification of Optimal Coagulation Practice in the Holland Water Treatment Plant**
Jim Van De Wege, Superintendent - Water Treatment Plant, Holland Board of Public Work, Holland, MI Alex Yavich, Ph.D., P.E. Environmental Engineering Consultant, AY Consulting, Grand Rapids, MI
 - 2:30 pm - City of Milwaukee Water Works Filter Maintenance and Inspection Program**
Pat Carnahan, P.E., Senior Project Manager, Triad Engineering
 - 3:00 pm - Post Backwash Turbidity Spike Minimization - William Soucie, Water Quality Lab Supervisor, CLCJAWA**
 - 3:30 pm - UV Disinfection at Central Lake County JAWA - William Soucie, Water Quality Lab Supervisor, CLCJAWA**
 - 4:00 pm - Water Treatment Plant Pipe Gallery Repainting - Case Study - Ira M. Gabin, P.E, Vice President, Dixon Engineering**
 - 4:30 pm - An On-Line Process Analyzer System for Potable Water Chloramination Monitoring and Process Control - Wei Zhang, Applied Spectrometry Associates, Inc.**

THURSDAY - MARCH 16

Daily Schedule Overview

7:45 am - Breakfast Installation of Officers - Sapphire Room - 2nd floor

9:00 am - Technical Sessions

10:30 am - ISAWWA Board Meeting - Illinois Room - 3rd floor

Engineering Session - *Diamond Room*

9:00 am - Easing into Membrane Filtration

Edward B. LaBelle, Crawford Murphy and Tilly, Inc.

9:30 am - Developing High Capacity Municipal Sand and Gravel Wells in a Complex Geological Environment in Northeastern Illinois

Patrick Jurcek, P.G. Senior Hydrogeologist, Layne Western Company

10:00 am - BREAK

10:15 am - Retrofitting a 25 MGD Submerged Microfiltration System

Paul Shadrake, CDM and Greg Wetterau, CDM

10:45 am - Consider the Sources – UV for Drinking Water

Kim Guengerich, Midwest Region Sales Manager, WEDECO

11:15 am - Challenges and Successes of Residuals Solids Treatment Startup

Eric Cockerill, Project Manager, CDM

Distribution Session - *Ruby Room*

9:00 am - Using Real Data To Plan A Water Main Replacement Program

Paul Moyano, P.E., Senior Engineer, MWH Americas, Inc. Municipal and State Services East

9:30 am - Cathodic Protection for a New Ductile Iron Water Transmission Main

Vern Rash, P.E. Senior Engineer, Des Moines Water Works

10:00 am - BREAK

10:15 am - How Much Water Are you putting into your Distribution System

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

10:45 am - Low-Lead Brass Alternatives for Water Systems

Larry Aulich, Senior Product Manager - Water Products, Mueller Company

11:15 am - Cross-Connection and Contamination in Municipal Vaults and Manholes

Phillip Landon, Director of Marketing, Val-Matic Corp.

Regulatory Session *Emerald Room*

9:00 am - Legislative Update: The Status of Legislative Action and What You Can Do About It

Maureen Mulhall and Terry Steczo, Government Strategy Associates

10:00 am Break

10:15 am - The Impact of the UV Disinfection Guidance Manual on UV Facility Design and Operation - 2006 Update

Sam Jeyanayagam, Ph.D., P.E., DEE, Senior Associate, Malcolm Pirnie, Inc.

11:15 am - Update: What the IEPA Wants You To Know About Regulations, Changes and Deadlines

Mary Reed and Gary Forsee, IEPA Bureau of Water, Compliance Unit, Drinking Water Section.

**ILLINOIS SECTION
AMERICAN WATER WORKS ASSOCIATION**
535 YORKSHIRE DR. - DEKALB, IL. 60115
*DROP THIS AT CONFERENCE REGISTRATION,
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BEST PAPER COMPETITION

Presentation Title: _____

Speaker: _____

Session Date & Time: _____

EVALUATION

Please circle a score in each category. If the category is not applicable, then circle "NA". If no response is circled in any of the categories, then a minimum score of "1" will be assigned. Do not sign or identify yourself on this document.

Please Circle One

I. PRESENTATION

- | | | | | | | |
|--|----|---|---|---|---|---|
| A. Handouts: readability, clarity and understandability | NA | 1 | 2 | 3 | 4 | 5 |
| B. Technical Content: organization use of graphs, tables, slides and overheads | NA | 1 | 2 | 3 | 4 | 5 |
| C. Professional Quality: logical conclusion, factual presentation, documentation | NA | 1 | 2 | 3 | 4 | 5 |

II. AUDIENCE INTERFACE

- | | | | | | | |
|--|----|---|---|---|---|---|
| A. Audience comprehension: content appropriate for audience, technical aspects Understandable by audience. | NA | 1 | 2 | 3 | 4 | 5 |
| B. Visual Aids: applicability to topic, quality of slides, overheads, etc. | NA | 1 | 2 | 3 | 4 | 5 |
| C. Delivery: stage presence, audience response, ability to respond to questions | NA | 1 | 2 | 3 | 4 | 5 |

III. CONTENT

- | | | | | | | |
|--|----|---|---|---|---|---|
| A. Applicability of topic, usefulness and timeliness. | NA | 1 | 2 | 3 | 4 | 5 |
| B. Value of contribution: freshness, applicability to current problems or situations | NA | 1 | 2 | 3 | 4 | 5 |
| C. Completeness: draws a logical conclusion, offers worthwhile recommendation | NA | 1 | 2 | 3 | 4 | 5 |

- | | | | | | | |
|--|----|---|---|---|---|---|
| IV. Optional Reviewer Extra Points: If you feel that extra points should be awarded For a particular special effect or effort. | NA | 1 | 2 | 3 | 4 | 5 |
|--|----|---|---|---|---|---|

Special Comments or Suggestions:

Extra Best Paper forms can be obtained at the Conference Registration Desk or in the meeting rooms. Please fill out for as many sessions as you'd like and drop them off at the registration desk or fax to 866-521-3591 after the conference. These nomination forms will be used to award the Best Paper for Conference 2006 to be awarded at the Conference in 2007.

Joint Water Conference

RTC/PDH Submission Form

Operator Name: _____ Social Security No.: _____

Identify actual minutes attended for ea. session and the total actual training time for renewal training credit.

RTC PDH		Monday - March 13	Time	Minutes	Actual Minutes
	Wastewater				
<input type="checkbox"/>	<input checked="" type="checkbox"/> IFAS Cures the Nitrification/Denitrification Blues		2:00 pm	30	_____
<input type="checkbox"/>	<input checked="" type="checkbox"/> Changes to the National Pretreatment Program		2:00 pm	30	_____
<input type="checkbox"/>	<input checked="" type="checkbox"/> New Initiatives in IL Water Quality Standard Reg.'s		2:30 pm	60	_____
<input type="checkbox"/>	<input checked="" type="checkbox"/> Integrated Fixed Film and Activated Sludge Process		2:30 pm	30	_____
<input type="checkbox"/>	<input checked="" type="checkbox"/> Existing Treatment Facilities Process Modeling		3:30 pm	30	_____
<input type="checkbox"/>	<input checked="" type="checkbox"/> MWRDGC Efforts to Reduce Pharmaceuticals		3:30 pm	30	_____
<input type="checkbox"/>	<input checked="" type="checkbox"/> From Interim Limits to TMDLs		4:00 pm	30	_____
<input type="checkbox"/>	<input checked="" type="checkbox"/> Freeport WWTP Nitrifying Biological Aerated Filter		4:00 pm	30	_____
<input type="checkbox"/>	<input checked="" type="checkbox"/> Illinois Golf Course Scores a Hole-in-One		4:30 pm	30	_____
<input type="checkbox"/>	<input checked="" type="checkbox"/> National Fire Protection Association Standards		4:30 pm	30	_____

Tuesday - March 14

	Operators Preconference				
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Safe Handling of Water & Wastewater Chemicals		8:30 am	90	_____
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> IDOT Requirements Concerning Traffic Control		10:30 am	30	_____
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> IDOT Requirement Concerning Traffic Control		11:00 am	60	_____
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Water/Wastewater Control Panel Maintenance		1:00 pm	75	_____
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Maintenance Strategies for Centrifugal Pumps		3:00 pm	45	_____
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Valve Maintenance, Valve Repair, and Valve Replacement		3:45 pm	75	_____
	Wastewater				
<input type="checkbox"/>	<input checked="" type="checkbox"/> Review of Bioassays		9:00 am	30	_____
<input type="checkbox"/>	<input checked="" type="checkbox"/> Flow Monitoring and Smoke Testing		9:00 am	30	_____
<input type="checkbox"/>	<input checked="" type="checkbox"/> Review of Whole Effluent Toxicity		9:30 am	30	_____
<input type="checkbox"/>	<input checked="" type="checkbox"/> Improved Characterization of Wet-Weather Flows		9:30 am	30	_____
<input type="checkbox"/>	<input checked="" type="checkbox"/> Additional Anaerobic Digestion Tests		10:15 am	30	_____
<input type="checkbox"/>	<input checked="" type="checkbox"/> Four largest wastewater lift stations out of service		10:15 am	30	_____
<input type="checkbox"/>	<input checked="" type="checkbox"/> Collection Options for Low Level Mercury Monitoring		10:45 am	30	_____
<input type="checkbox"/>	<input checked="" type="checkbox"/> Riders on the Storm		10:45 am	30	_____
<input type="checkbox"/>	<input checked="" type="checkbox"/> Sanitary Sewer Infrastructure Assessment		11:15 am	30	_____
<input type="checkbox"/>	<input checked="" type="checkbox"/> Tertiary Filter Pilot Testing at Galesburg Sanitary		1:30 pm	30	_____
<input type="checkbox"/>	<input checked="" type="checkbox"/> Are you Spending Quality Time with Your Clarifiers?		1:30 pm	30	_____
<input type="checkbox"/>	<input checked="" type="checkbox"/> The Next Generation in Screening Technology		2:00 pm	30	_____
<input type="checkbox"/>	<input checked="" type="checkbox"/> Hydrodynamic Vortex Separators as Contact Chambers		2:30 pm	60	_____
<input type="checkbox"/>	<input checked="" type="checkbox"/> Decomposing Barley Straw to Control Blue Green Algae		3:30 pm	30	_____
<input type="checkbox"/>	<input checked="" type="checkbox"/> Domestic lagoons meet new BOD, TSS, NH3, & P Limits		4:00 pm	30	_____
<input type="checkbox"/>	<input checked="" type="checkbox"/> Chicago Water Use - Steps to Sustainability		4:30 pm	30	_____
<input type="checkbox"/>	<input checked="" type="checkbox"/> Options for Wastewater Lagoons to Meet New Effluent Limits		4:30 pm	30	_____
	Joint				
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Storm Drain Stenciling Program at Pontiac Illinois		8:00 am	30	_____
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Aquatic Invasive Species in Illinois (Carpe Carp!!)		8:30 am	30	_____
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Attracting Dragonflies and Damselflies to Wetlands		9:00 am	30	_____
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Estimating Industrial Hydrologic Footprints		9:30 am	30	_____
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Water Resource Assessment for the Fox River Watershed		10:15 am	30	_____
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Wastewater Treatment & Land Application		10:45 am	30	_____
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Modeling to Evaluate Water Quantities and Qualities		11:15 am	30	_____
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Tapping Into the Knowledge of Frontline Employees		1:00 pm	60	_____
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Innovative Methods for Collection System Management		1:00 pm	30	_____
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Effects of plumbing corrosion control in potable systems		1:30 pm	30	_____
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Bacterial Bioluminescence Test to Monitor Water/Wastewater		1:30 pm	30	_____
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Inner-Governmental Delinquent Account Collection Agreement		2:00 pm	30	_____

Joint Water Conference

RTC/PDH Submission Form

Operator Name: _____ Social Security No.: _____

Identify actual minutes attended for ea. session and the total actual training time for renewal training credit.

RTC PDH		Time	Minutes	Actual Minutes
	<u>Tuesday - March 14</u>			
	Joint (Continued)			
■ ■	Client and Staff input on design using 3D CADD	3:00 pm	30	_____
■ ■	In-situ Collection and Distribution System Rehabilitation	3:30 pm	30	_____
■ ■	Electrical Safety in the Water and Wastewater Industry	4:00 pm	30	_____
■ ■	Online Training and Capital Improvement Projects	4:30 pm	30	_____
	Water			
■ ■	Innovative Approaches to Managing Ion Exchange Residuals	1:00 pm	30	_____
■ ■	Lead and Copper Rule and Corrosion Control	1:00 pm	30	_____
■ ■	Controlling Biological Growth in Water Distribution Systems	1:30 pm	30	_____
■ ■	Tracking Water Quality with GIS Application	1:30 pm	30	_____
■ ■	Controlling Lead and Minimizing Deposition	2:00 pm	30	_____
■ ■	UV Disinfection for Groundwater Supplies: A Case Study	2:00 pm	30	_____
■ ■	Status of UV Systems - Where are we going?	2:00 pm	30	_____
■ ■	Defeating Environmental Uncertainties in Utility Permitting	3:00 pm	30	_____
■ ■	Water Age Impacts on the Distribution System	3:00 pm	30	_____
■ ■	City of Aurora Responds to a Water Quality Issue	3:30 pm	30	_____
■ ■	System Monitoring for Water Distribution System Analysis	3:30 pm	30	_____
■ ■	A Hybrid Coagulation-Adsorption-Membrane Process	4:00 pm	30	_____
■ ■	Well of Deception	4:00 pm	30	_____
■ ■	Public Water Supply Security and Emergency Response	4:30 pm	30	_____
	<u>Wednesday - March 15</u>			
	Wastewater			
<input type="checkbox"/> ■	Combined Sewer Separation	8:30 am	30	_____
<input type="checkbox"/> ■	Biosolids mineralization	8:30 am	30	_____
<input type="checkbox"/> ■	Evaluation of Innovative Technologies	9:00 am	30	_____
<input type="checkbox"/> ■	Gaining Approval for a Wet Weather Treatment System	9:30 am	30	_____
<input type="checkbox"/> ■	How to Address Wet Weather Issues	10:15 am	30	_____
<input type="checkbox"/> ■	Chemical and Biological Phosphorus Removal Processes	10:15 am	30	_____
<input type="checkbox"/> ■	Design of Biological Phosphorus Removal at St. Joseph	10:45 am	30	_____
<input type="checkbox"/> ■	Integrating Collection and Receiving Water Quality Models	10:45 am	30	_____
<input type="checkbox"/> ■	Biological Phosphorus Removal at St. Joseph, Illinois	10:45 am	30	_____
<input type="checkbox"/> ■	Struvite, Sidestreams and Phosphorus Removal	11:15 am	30	_____
<input type="checkbox"/> ■	Minimize the Adverse Effects of Wet Weather Flows	11:15 am	30	_____
	Joint			
■ ■	Making a Case for Rate Studies	8:30 am	30	_____
■ ■	How Healthy Are Your Utility's Financial Fundamentals?	9:00 am	30	_____
■ ■	Energy Management and Energy Savings	9:30 am	30	_____
■ ■	Why pay the mark up?	10:15 am	30	_____
■ ■	Contractor Prequalification	10:45 am	30	_____
■ ■	Preparing a Residuals Bid Package	11:15 am	30	_____
■ ■	Digitally Connected Instrumentation	2:00 pm	120	_____
	Water			
■ ■	Options for Increasing Water Supply Capacity	8:00 am	30	_____
■ ■	60 MGD Submerged Membrane Facility	8:30 am	30	_____
■ ■	Atrazine: From Problem to No Problem	8:30 am	30	_____
■ ■	Chlorine Dioxide - Is it Right for You?	9:00 am	30	_____
■ ■	Hydrogen Peroxide, a Low-Cost Option r	9:00 am	30	_____
■ ■	Radium Removal Strategies	9:30 am	30	_____
■ ■	Operational Changes & Noticeable Water Quality Improv.	9:30 am	30	_____
■ ■	Membrane Pilot Plant on Lake Erie	10:15 am	30	_____
■ ■	Water Quality Management	10:15 am	30	_____

Joint Water Conference RTC/PDH Submission Form

Operator Name: _____ Social Security No.: _____

Identify actual minutes attended for ea. session and the total actual training time for renewal training credit.

RTC PDH	<u>Wednesday - March 15</u>	Time	Minutes	Actual Minutes
	Water (Continued)			
<input checked="" type="checkbox"/>	UV-Oxidation Using UV and Hydrogen Peroxide	10:45 am	30	_____
<input checked="" type="checkbox"/>	Ozone for Taste and Odor Control	10:45 am	30	_____
<input checked="" type="checkbox"/>	Surface Water Treatment Utilizing Membranes	11:15 am	30	_____
<input checked="" type="checkbox"/>	Water Fluoridation - Making a Difference	11:15 am	30	_____
<input checked="" type="checkbox"/>	The New Forsyth, IL WTP	2:00 pm	30	_____
<input checked="" type="checkbox"/>	Distribution System Water Storage Tank Sizing	2:00 pm	30	_____
<input checked="" type="checkbox"/>	Identification of Optimal Coagulation Practice	2:00 pm	30	_____
<input checked="" type="checkbox"/>	Water Works Filter Maintenance and Inspection Program	2:30 pm	30	_____
<input checked="" type="checkbox"/>	Today's Composite Elevated Storage Tanks	2:30 pm	30	_____
<input checked="" type="checkbox"/>	New Installment Purchase Financing Options	2:30 pm	30	_____
<input checked="" type="checkbox"/>	Water for Northeastern Illinois, Where do we go from Here?	3:00 pm	30	_____
<input checked="" type="checkbox"/>	Effective Water Storage Tank Inspections	3:00 pm	30	_____
<input checked="" type="checkbox"/>	Post Backwash Turbidity Spike Minimization	3:00 pm	30	_____
<input checked="" type="checkbox"/>	UV Disinfection at Central Lake County JAWA	3:30 pm	30	_____
<input checked="" type="checkbox"/>	Mixing in Water Storage Tanks - AwwaRF Project Update	3:30 pm	30	_____
<input checked="" type="checkbox"/>	Sodium Hypochlorite for Water Disinfection	3:30 pm	30	_____
<input checked="" type="checkbox"/>	Water Conservation Ordinances	4:00 pm	30	_____
<input checked="" type="checkbox"/>	Guide to the Design of Water Transmission Pipelines	4:00 pm	30	_____
<input checked="" type="checkbox"/>	Water Treatment Plant Pipe Gallery Repainting	4:00 pm	30	_____
<input checked="" type="checkbox"/>	An On-Line Process Analyzer System	4:30 pm	30	_____
<input checked="" type="checkbox"/>	Horizontal Directional Drilling with 12-inch Ductile Iron Pipe	4:30 pm	30	_____
<input checked="" type="checkbox"/>	Third Part Audit of Water Treatment Plants	4:30 pm	30	_____

Thursday - March 16

RTC PDH	<u>Thursday - March 16</u>	Time	Minutes	Actual Minutes
	Water			
<input checked="" type="checkbox"/>	Easing into Membrane Filtration	9:00 am	30	_____
<input checked="" type="checkbox"/>	Using Real Data To Plan A Water Main Replacement Prog.	9:00 am	30	_____
<input checked="" type="checkbox"/>	Cathodic Protection for New Ductile Iron Water Main	9:30 am	30	_____
<input checked="" type="checkbox"/>	Developing High Capacity Municipal Sand and Gravel Wells	9:30 am	30	_____
<input checked="" type="checkbox"/>	Retrofitting a 25 MGD Submerged Microfiltration System	10:15 am	30	_____
<input checked="" type="checkbox"/>	How Much Water Are you putting into your Distribution System	10:15 am	30	_____
<input checked="" type="checkbox"/>	The Impact of the UV Disinfection Guidance Manual	10:15 am	30	_____
<input checked="" type="checkbox"/>	Low-Lead Brass Alternatives for Water Systems	10:45 am	30	_____
<input checked="" type="checkbox"/>	Consider the Sources – UV for Drinking Water	10:45 am	30	_____
<input checked="" type="checkbox"/>	Challenges/Successes of Residuals Solids Treatment Startup	11:15 am	30	_____
<input checked="" type="checkbox"/>	Cross-Connection/Contamination in Municipal Vaults/Manholes	11:15 am	30	_____

Qualifies for RTC and/or PDH time
 Does not qualify for RTC and/or PDH time

TOTAL Training Time (hr/min): _____

To ensure proper renewal training credit, it is important for you to total your actual training minutes and indicate the total in the space provided.

I certify that the above information is true and accurate and that I have successfully completed the training identified above. I understand that proof-of-training records must be maintained by me for a period of four years. I further acknowledge that falsification of this form used in the certificate renewal process may result in denial of certificate renewal or restoration and is cause for certificate revocation and/or suspension.

Signed: _____ Date: _____

Mail completed for to: Illinois EPA, BOW/CAS#19
1021 N. Grand Avenue East, P.O. Box 19276, Springfield, IL 62794

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Phone 314-432-2140 www.durkininc.com	
Instrumentation and controls, SCADA and disinfection systems.	
E.H. Wachs Co.	206
Phone 847-537-8800 www.wachso.com	
Since 1940, the E.W. Wachs Company has dedicated itself to manufacturing equipment for water utilities to maintain their water distribution systems. Today, Wachs offers: Portable truck mounted and hand held "valve operators", portable "pipe cutoff machines" and "vacuum systems" for box cleanout and light excavation.	
East Jordan Iron Works	205
Phone 815-740-1640 www.ejiw.com	
We provide construction products for the underground construction industry such as street casting, fire hydrants and valves.	
Eaton Mechanical Sales	1021
Phone 847/279-1600	
Manufacturer's Representative of CertainTeed Certa-Lok and Yelomine Pipe, Advance Products Casing Spacers, Telemark Electronic Marking Systems, SW Services Debris Caps, CertainTeed High Deflection & Repair Coupling, Containment Solutions Fiberglass New and Rehab Manholes, and Reliner Manhole Inverts and Drop Bowls.	
Electric Controls Co.	404
Phone 314-645-2400	
Suppliers & designers of controls and systems for the water and wastewater industry.	
Emerson Process Management	210
Phone 847-909-7352 www.rosemount.com	

Endress & Hauser	1108
Phone 317-535-7138 www.us.endress.com	
Measurement and control systems provide the information required to drive critical ongoing treatment processes. Endress+Hauser is a global supplier of sensors and systems that acquire, transmit and use process information. Endress+Hauser is the only supplier capable of providing one-stop shopping for measurement and control for the water and wastewater industry. We have a total instrumentation range and the application expertise to help you.	
Energenecs	907
Phone 262-377-6360 www.energenecs.com	
Energenecs provides system integration service, application engineering, and equipment and field services for water and wastewater treatment and control systems.	
Engineering Enterprises	917
Phone 630-466-9350 www.eeiweb.com	
Engineering Enterprises, Inc. is an established consulting engineering firm providing planning, design and construction services throughout northern Illinois. Areas of expertise include transportation, water, and wastewater systems; floodplain and stormwater management; and land surveying and GIS.	
Environmental Monitoring & Technologies, Inc.	1000
Phone 800-246-0663 www.emt.com	
Founded in 1984, EMT has extensive experience providing expert field sampling and analytical services throughout the Midwest. EMT's personnel utilize automated equipment to conduct time or flow-based monitoring of wastewater, NPDES and stormwater discharges. EMT fabricates and installs temporary or permanent flow measurement devices. EMT's laboratory is NELAC-accredited for an extensive list of analytical parameters.	
Environmental Resources Inc.	703
Phone 262-691-0998	
Service life extension, upgrades, reconditioning and preventative maintenance engineering for process water and wastewater equipment.	
Environmental Resources Training Center	505
Phone 618-650-2030 www.siue.edu/ERTC	
The ERTC provides statewide training opportunities/materials for water and wastewater personnel in operation, maintenance and management; as well as being the state training facility for cross connection control testing.	
Enviroquip, Inc.	209
Phone www.enviroquip.com	
Enviroquip, Inc. supplies Kubata Membrane based MBR systems for municipal and industrial applications, sludge thickening and digestion and a complete line of water and wastewater treatment equipment from fine screens to clarifiers.	
Farnsworth Group Inc.	1024
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Farnsworth Group is a full service engineering and architectural firm. Our talented staff provides the full range of services in civil engineering specializing in water supply, distribution, and treatment systems, wastewater collector and treatment systems, water storage, stormwater management, permitting, street design and rehabilitation, site plans and surveying, and construction related services.	

Federal Signal Controls	900
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Federal Signal offers the Terraseries, a pre-integrated, flexible SCADA platform that delivers full remote monitoring and control capability. It's real SCADA horsepower available in a user-configurable format, reducing cost and empowering users with the convenience and reliability of total system integration.	
Fehr-Graham & Associates	17
Phone 815-235-7643 www.fehr-graham.com	
Fehr-Graham & Associates provides Civil, Municipal and Environmental Engineering Services from our Freeport, Rockford and Rochelle offices and Monroe, WI office. Design and studies of comprehensive municipal water and wastewater systems, SCADA systems, financing and grant writing assistance, water and wastewater system operational assistance, sample collection and flow monitoring. Fehr-Graham & Associates also provides surveying services, property development, site design and transportation planning. Visit us at www.fehr-graham.com	
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Phone 630/377-2226 www.fischer-harris.com	
Fischer Harris & Associates is a manufacturers representative firm specializing products for the water distribution and sewer collection markets. Products represented in Illinois include EBAA Iron, Smith Blair, GPK, Adaptor Inc, Rodon, PSI, Occlude, Cherne, Gil, Valvco, and Fisher.	
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Phone 630-595-1010 www.flolo.com	
Flolo Corporation is a UL listed and CSA recognized panel builder, specializing in industrial control systems from concept through design engineering, software, assembly and start-up. Our staff has extensive experience designing coordinated drive systems utilizing SCADA systems for water and wastewater industries.	
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Phone 618-667-7890 www.flosystems.com	
Tanks, filters, valves, pumps	
Flowserve Corporation	102
Phone 630-435-9500 www.flowserve.com	
Hot tapping/line stopping products and services.	
Flow-Technics, Inc.	1011 1010
Phone 708-877-2600 www.flowtechnics.com	
Fluid Conservation Systems	105
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Provide leakage control solutions - Manufacture premier leak detection equipment	
Ford Meter Box Company	409
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Water works brass, pipeline products and uni-flange.	

Foremost Industrial Technologies	101
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Variable frequency drives, soft-starts, motors, speed reducers, couplings; flow, temp and pressure monitors, ultrasonic level detection; motor, pump and reducer repair; custom panels, vfd and soft start repair.	
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Gasvoda is your full service manufacturer's representative, offering smart equipment solutions to your most challenging water and wastewater applications. From assistance with process design, to field service, to parts, our professional staff is ready to serve your needs.	
Getum, Inc.	120
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Catch basin inlet, internal/external adapor seals, quickview camera, American Highway Products.	
Giant Maintenance & Restoration, Inc.	1014
Phone 847-388-3711	
Giant's services include fire hydrant refurbishing, consisting of blasting, primer and painting fire hydrants, exterior cleaning of ground storage tanks and water towers, 24 hour graffati removal service, plus all types of power washing and sand blasting services.	
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Godwin Pumps serves customers worldwide with a complete range of portable rental pumps and accessories. Godwin has become the industry leader in pumping for municipalities, industry, construction, aggregates and environmental concerns. The Godwin Dri-Prime has proven itself as the pump of choice for all types of temporary and permanent applications.	
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Grundfos is a worldwide leader in digital dosing pumps. Panner Sales is a regional distributor of Grundfos along with chemical feed systems, flow control equipment, level control instrumentation and analytical systems.	
GS Systems/ Wonderware	217
Phone 866-826-9725 www.gssystem.com	
SCADA Software, alarm dialer software, change management software, video surveillance software and reporting software.	
Hach Company	302
Phone 970-207-1077 www.hach.com	
Hach Company manufactures and distributes analytical instruments and reagents used to test the quality of water and other aqueous solutions.	
Hawkins Water Treatment Group	303
Phone 708-467-0125 www.hawkinsinc.com	
Providing chemicals, chemical feed equipment and services for municipal water and wastewater use.	

Horner & Shifrin, Inc.	106
Phone 618-397-1065 X1 www.hornershifrin.com	
Horner & Shifrin is a multi-disciplinary engineering, architectural and planning firm founded in 1933 with offices in Fairview Heights and St. Louis. We offer services in all project phases, including planning, development, design and construction surveillance to municipalities; city, county, state and federal government agencies; industries; utilities and commercial enterprises.	
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IEPA	5
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	13
Phone 217-785-4787 www.epa.state.il.us	
Promote groundwater, source water protection and educational programs for community and non-community supplies. Highlight program and monitoring efforts.	
IL Dept. of Public Health	1
Phone 217/785-4903 www.idph.state.il.us	
The Illinois Department of Public Health joins with the Illinois Department of Environmental Protection Agency to recognize and commend water systems for maintaining perfect compliance of continuous water fluoridation for 12 consecutive months in accordance with the state of Illinois Fluoridation Law.	
Illinois EPA - Division of Laboratories	1002
Phone 217-557-0274	
The Illinois Environmental Protection Laboratories analyze drinking water and other environmental samples (soil, water, air, fish, etc.)	

Illinois ESGR	0	
Phone 217-761-3642		
The National Committee for Employer Support of the Guard and Reserves (ESGR) is an agency within the Department of Defense which operates programs directed towards U.S. employers, employees and communities to insure understanding of the role of Reserve component members.		
Illinois Rural Water Assoc.	0	
Phone 217-287-2115		www.ilrwa.org
IRWA provides on-site technical assistance to water and wastewater facilities throughout Illinois. These services are free of charge.		
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JM Process Systems	401
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System Integration SCADA Systems	
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Phone 847-392-0990	www.leyassociates.com
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Phone 630-978-7867	
Pumps, Clarifiers, aeration equipment.	
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Phone 574-699-7782 www.merrellbros.com	
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MWH Americas	410
Phone 312-831-3000 www.mwhglobal.com	
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Phone 847-782-0357 www.natgun.com	
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Postl-Yore & Assoc.	603
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Phone 217-753-1148 www.prairieanalytical.com	
Prairie Analytical is a full service environmental testing laboratory with experience with the following programs: Solid Waste including RCRA waste characterization, Waste Water including NPDES, Groundwater including landfill monitoring, Drinking Water including SDWA, UST/LUST, Site Remediation and Brownfields (state and federal). Additionally, Prairie is a contract laboratory for the Illinois Environmental Protection Agency.	

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RJN Group	711
Phone 630-682-4700 www.rjn.com	
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Phone www.saffflo.com	
Saf-T-Flo is a manufacturer of chemical injection and sampling equipment for the water and wastewater industry.	
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SCADAware Inc. is comprised of a uniquely innovative and talented team of engineers and programmers who specialize in the design and implementation of open-architecture PC and PLC based Supervisory Control and Data Acquisition (SCADA) systems for all types of industrial, municipal, commercial and government clients.	
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Phone 859-283-0130 www.severntrentservices.com	
Severn Trent Pipeline Services offers specialized water distribution and sewer collection system analysis, pipeline and structure rehabilitation and line stopping equipment and services.	
Shurilla & Associates	22
Phone 815-462-3595	
Shurilla & Associates is a quality manufacturer's rep agency focused on the waterworks utility marketplace in Illinois and Northern Indiana.	
Smith Ecological Systems	1025
Phone 815-968-8079 www.smithecological.com	
Distributor of chlorination and chemical feed equipment for water and wastewater.	
Smith Engineering Associates, Inc.	906
Phone 815-385-1778 www.smithengineering.co	
Smith Engineering Consultants, Inc. (SEC) provides excellence in municipal, structural, transportation and water and wastewater engineering, wetland services, master planning services and site development as well as land surveying, SCADA and control systems. The company proudly serves clients from offices in Chicago, McHenry, New Lenox, and Yorkville as well as Austin, Texas.	

Sodemann & Associates	109
Phone 217/352-7688	
Civil engineering firm. Design of water and wastewater projects.	
Springfield Electric Supply Company	307 308
Phone 217-788-2100 www.springfieldelectric.co	
Springfield Electric provides electrical products to customers throughout Illinois.	
Stanley Consultants	602
Phone 773-693-9624 www.stanleygroup.com	
Stanley Consultants Inc. provides high quality professional services in energy, environment and infrastructure. From existing facilities upgrade and expansion to complete design of new facilities, experienced professionals will develop innovative and effective engineering solutions for your wastewater collection and treatment facilities needs. Let the innovation and experience of Stanley Consultants work for you.	
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Stewart Spreading is a full service residuals management company. Our mission is to provide innovative and economical solutions with outstanding customer service. Services include: land application, mobile dewatering, digester cleaning, lagoon cleaning and EPA reporting. No project too large or small.	
Stiles-Kem	1008
Phone 847-689-1100 www.met-pro.com/stiles-k	
Provider of specialty chemicals for potable water production and wastewater treatment. Products included blended phosphates, bio-penetrants, polymers for potable water applications and sludge dewatering.	
Strand Associates, Inc.	908
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Suburban Laboratories Inc.	400
Phone 708/544-3260 www.suburbanlabs.com	
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TDW Services	606
Phone 630-820-2500 www.tdwilliamson.com	
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Phone 763-559-2837 www.tonkawater.com	
Tonka Equipment Company is a manufacturer of customized water treatment equipment.	
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Phone 414-291-8840 www.triadengineering.com	
Triad is a full-service engineering and consulting firm with offices located in Wisconsin and Indiana. Triad provides municipal officials and the private sector with an experienced staff of professionals to efficiently provide the planning, engineering and construction management needed as our cities and towns move into the 21st century.	
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Phone 417-864-0235 www.turblex.com	
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URS Corp.	707
Phone 314-429-0100 www.urscorp.com	
URS, the No #1 design firm in the US ,provides a full range of services including planning, design and construction management to the water and wastewater industry.	
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