The background of the entire page is a vibrant blue-green color with a dynamic water splash effect. Numerous water droplets of various sizes are scattered throughout, some in sharp focus and others blurred, creating a sense of movement and freshness. The lighting highlights the texture and clarity of the water.

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ABOUT ILLINOIS SECTION AWWA

American Water Works Association (AWWA) is the authoritative resource on safe water, providing knowledge, information and advocacy to improve the quality and supply of water in North America and beyond. AWWA advances public health, safety and welfare by uniting the efforts of the full spectrum of the water community.

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CHAIR REPORT

Dennis Ross, Chair



I told myself a year ago I would not say in my final Chair report that the year has flown by! But I will say, “Wow, has a year passed already?” I was just starting to get the hang of this job and it is almost over. When I think about it, my entire career has been a bit too similar. No matter what my job has been over the years, from drawing maps, reading meters, working on the distribution crew, managing a ground water system in western Missouri or a surface water system in central Illinois, time has passed too quickly. It seems that just as we get one challenge figured out and the problem solved, another one appears.

Over the past 35 years the one thing that has always been there to help me with new challenges, is AWWA. Not to slight our brothers and sisters to the west, but I don't think there is a better conference held by any Section of AWWA than WATERCON 2012. This year is on track to exceed every past conference. There is something at WATERCON 2012 for everyone. There will be water and wastewater technical sessions,

new product demonstrations, and the museum, not to mention the exhibit hall which is sold out again this year. There are numerous opportunities for fun and fellowship both before and after conference hours. There will be Bike and Breakfast, tapping contests, water taste contest, top ops, meter madness, Texas Hold'em and even a Splash Mob. And you don't want to miss the grand opening of the exhibit hall.

Don't get the wrong idea here. While this is a list of some great events, and I hope you get to enjoy a large part of them, there is more. Have you ever wondered what a different committee is all about, but didn't know how to find out? At WATERCON 2012 there will be several committee meetings. If you are interested in seeing how they work and think you may want to get involved, feel free to sit in on their committee meeting. I think you will walk away with a new sense of just what is involved and how you can become part of the process.

Membership is the single most important element of the Section; and, as with many other organizations, numbers are on the decline. First let me say thank you for being a **member** of AWWA. If you are also a **volunteer** in the Section let me say thank you for a second time. And if you have been, are currently, or hope to be in the future an **officer** or committee chair, let me thank you for a third time. It is very simple to be any of these three things, and you will find that it is also very rewarding. As a **member** you have great opportunities for training delivered right to your desk, some free and others at a reduced cost. No one does this better than ISAWWA. As a **volunteer** you gain a new network of peers to share ideas with, and as

an **officer or committee chair** you will expand your leadership abilities. You can't go wrong doing any of these things. If you have any questions about your membership, the benefits or how to relay this information to your boss, council or a potential new member, stop by the membership booth at WATERCON 2012 and ask us, or contact the Section office.

A lot of things have happened this year - some behind the scenes and some you can wrap your hands around . . . or maybe just your keyboard. The new web site is up and running. Many of you have already been on it to register for WATERCON 2012. If you haven't had a chance to look at the new site please go to www.isawwa.org and take a look at it. We have made this site do more for you. Maybe you have already been on the site, but have a few questions about what it can do for you? There will be a presentation put on at WATERCON 2012 at three different times, just to help you get everything you can out of this new site.

As I sit at my desk late on a Friday afternoon, on the day of the deadline imposed by our sometimes cruel and demanding Editor, I would like to close this chapter in my service to the Section by saying something that is way too simple, but completely expresses my feelings for this last year. It has been an honor to serve the Section as Chair. The board, volunteers, members and staff have been constantly supportive in everything I have had the pleasure to be involved in this past year.

I look forward to seeing each of you at WATERCON 2012.

CHAIR ELECT REPORT

Kevin Lookis, Chair Elect



The holidays are now behind us and the doldrums of February are here, but remember that this means we are only a month or so away from this year's WATERCON 2012 held in March. The conference looks to be bigger and better than ever and the Technical Program is outstanding. Remember that in most cases the contacts and networking that happens at WATERCON 2012 can be just as important!

The Section needs you and your help as a volunteer! The cornerstone of our organization relies heavily on the support that comes from members who generously give their time to serving on committees and participating in ISAWWA activities.

Take a look at the Committee list in the back of SPLASH and see if there is a committee that interests you. And don't hesitate to contact me or the Committee Chair direct to volunteer.

Once again I cannot stress enough, with each article I write for Splash. We all owe a big thank you to Laurie Dougherty, our Executive Director, as well as Lisa Hoffhines and Sandi McGinnis (our excellent ISAWWA staff) for their efforts in putting together the education opportunities for operators looking to obtain a license and those needing hours to maintain one!

See you in Springfield at WATERCON 2012!

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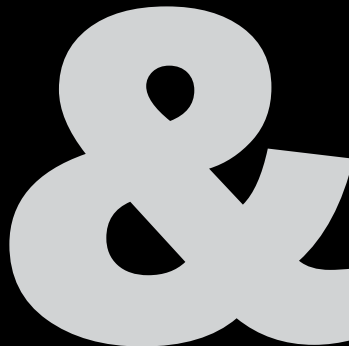
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{ page 18 }



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VICE CHAIR REPORT

John Van Arsdel, Vice Chair



Greetings from the winter season of the Vice Chair. It is January; and, as I write this article, we are having our first real accumulation of snow for the season. It is a far cry from last year when the white stuff falling from the sky set the third highest record in 100 years for accumulation for one season. This year, so far, the snowfall has been sparse, but we still have the rest of winter to get through. If we were in the west, the snowfall has a direct influence on how much water would be available for use. Here in the Great Lakes area, that may not be a big concern because we have been blessed with an abundance of fresh water. It still means we can never take for granted our good fortune. Thus, our professions as water stewards are ever more important.

My term as your Vice Chair comes to an end soon, and I will move to the Chair-Elect position. I feel humble as this comes about because when I look back on my earlier years, as I got started in the ISAWWA, I never really expected to

become a part of the “structure” of the organization. It sort of grew on me. First I got involved on a committee and then moved to other positions, learning how to be a responsible water steward and taking part in the ever evolving AWWA. I congratulate the new members of the Board who volunteered to run for their respective offices, stepping up to take on a leadership role. Those who ran but did not make it, I congratulate you as well. Just having the inner motivation to put yourself “out there” to step up and volunteer to be part of the leadership development of our water community is showing leadership.

We need leaders. At the last Board meeting the membership numbers were not the best news. We have lost members but we are not alone. Across the country there are several other organizations that have seen their numbers drop, too. It is the sign of the times. We hear it on the news almost every day - cutbacks, layoffs, and budget constraints. All of this comes into play as everyone feels the effects rippling through our economy. We need new members today to create tomorrow’s leaders in the water world. It appears that, with our aging work force, we will face a shortage of qualified water operators. It will not be ten years from now, but in some cases has already happened. We have a need to resolve this.

Fortunately, the ISAWWA is doing something about this. The challenge put out earlier last year on recruiting student members was met. It cannot stop there, so the need to convince others of the benefits of membership becomes the challenge. We need to tell folks that what the ISAWWA does is not

free - it is included with the cost of the membership, and that is what makes it extremely valuable and worthwhile. Here is a case in point: the new website is great, easy to use, and has more buttons to push and have fun with. It is also a tool that can help everyone derive the most from their membership. Kudos to Laurie, Lisa, Sandi and the Website Committee for producing this polished gem.

The ISAWWA has had a direct influence on water regulations, water use, and standards for water quality in the State. Now it has a direct influence on how I am supposed to dance! Crazy, you say? Well show up to WATERCON 2012 in Springfield in March and witness first hand our first “Splash mob” dance. I will have my two left feet in there (along with a few others). But wait, there is more. The WATERCON 2012 joint conference has technical sessions where educational credits can be obtained, lots of displays by vendors on the latest and greatest water products and services, and, of course, fellowship and networking with other water professionals. You can also witness pipe tapping and meters being assembled at high rates of speed. It is included with the cost of your membership. It is quite a value. There is even more, but you need to be there to experience it.

I look forward to my new term as Chair-Elect. We have a lot of challenges to meet, but we have dedicated leaders and problem solvers who can take on these challenges. We have the resources to make the difficult easy, the impossible possible, while at the same time building tomorrow’s leaders, today.

See you in Springfield at WATERCON 2012!

AWWA DIRECTOR REPORT

Kyla Jacobsen, AWWA Director



Hola desde el soleado Puerto Rico (hello from sunny Puerto Rico). Yes, the winter AWWA Board meeting was recently held in Puerto Rico, and a huge thanks needs to go out to their Section Director, Albert Ortiz Diaz, and the entire Puerto Rican Section for being fantastic hosts. And, while the venue was great, we were actively engaged in meetings during the day, which meant that my husband got to enjoy the sunshine by himself.

Firstly, I must report that John Donahue, past Section Chair and former Director from the Illinois Section, was unsuccessful in his bid for President-elect. It was a close race; and, ultimately, Jim Chaffee of Wisconsin was elected to serve in that capacity. Thank you to John for stepping up and for his willingness to serve the great organization that is AWWA.

Secondly, I was unsuccessful in my bid for one of the four Vice-President seats. There were 9 great candidates that ran and I know that we will be greatly served by the four elected: Rosemary Smud, California-Nevada Section - Director at Large (1st year director); Reid Campbell - Atlantic Canada Section (1st year director); Dave Koch-Michigan Section (2nd year director); and Mark Cline - South Carolina Section (2nd year director). I plan to get up, dust myself off and run for office again next year.

Membership, member retention and member involvement continue to be at the forefront, occupying staff and Board time and efforts. During the special Saturday session, we had a report from the newly formed MEDC (Member Engagement and Development Committee). The Board spent some time discussing how and why people engage in AWWA and how to increase that involvement. It was a great exercise and lots of ideas were flying all around. One thing I know for certain, TECHNOLOGY will play an increased role in member engagement in the future.

Also pertaining to membership and member retention, last year the AWWA Board of Directors modified the Life Member (Grade 10) category of membership. These changes became effective at the beginning of this year. Under the previous Life Member program, a member who had attained 30 years of cumulative membership became a Life Member. He or she then became entitled to all the benefits of membership but was not required to

pay dues. Under the approved changes, future Life Members must still achieve a cumulative 30 years of membership and also be a minimum of 65 years old. In addition, Life Members will pay dues of \$85 per year. Under the new criteria, new Life Members will continue to receive AWWA and Section recognition. In addition, AWWA will honor all members who have accumulated 30 years of membership for long-term loyalty to the Association. We were given an update on renewals under the new program. Renewal notices have been sent. So far, the renewal rate is approximately 30%. Any Life Members that have not paid will be dropped from the membership rolls on May 1, 2012.

The actual Board meeting was held all day Sunday. Besides the election of the President-elect, the Vice-Presidents and the Director-at-Large, the board approved the nomination of Dave Rager as the treasurer-elect to serve a 4-year term beginning June 2012. Also, the Board approved the 2012 budget which reflects a slightly reduced anticipated income and reduced anticipated expenses for the coming fiscal year. The good news is that AWWA is still a financially sound organization.

I am looking forward to WATERCON 2012. It's going to be a great conference, AGAIN! The Technical Program Committee has put together a fantastic program, and all the extra-curricular activities will help make the conference a great learning and networking opportunity. AWWA Vice-President Gene Koontz, from the Pennsylvania Section will be our honored guest. SEE YOU IN SPRINGFIELD.

EXECUTIVE DIRECTOR REPORT

Laurie Dougherty



What next? I remember when...

Those of you in the same generation as I, see that this world is changing at the speed of light.

We say, "we remember when..."

...You worked at the same place and looked for a career and not a job.

...You didn't have to lock the doors or worry about terrorists.

...The job you did was rewarded with pay increases, longevity and a sense of security.

These seem to have been replaced with:

- Reduced revenue for companies or utilities requiring even good workers to be released.
- Worrying if your place of business will be a victim of a terrorist attack.
- Wondering how you are going to survive what used to be thought of as retirement.

So you are asking yourself, what does all of this have to do with the Illinois Section AWWA and drinking water? We realize that this is a new world and

today's world is not the same as it is going to be next week or next month. The Illinois Section AWWA is dedicated to continued improvement to provide to you with relevant tools that you can use to survive this ever changing world.

We want to be there for you if and when:

- You need to transition to a new job.
- You are forced into early retirement and want to continue to make a valid contribution to the industry.
- You have less time to do more, sharing with you best practices to make your life easier.
- Help you prepare for what used to be unimaginable situations.

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TRUSTEE AT LARGE REPORT

Dennis Bowe, Trustee at Large



Having been elected ISAWWA Trustee-at-large, I have had the privilege of observing and participating in the management and policy making processes of the Section. Based on my experiences, I can assure you that your Section is being managed by very competent and diligent people. The current Board is committed to the expansion of Section services, benefits and activities. The Board is also focused on sound fiscal practice and prudence. At the same time, our exceptionally talented ISAWWA staff (Laurie, Lisa and Sandi) provides tireless effort and support that contribute to the success and vitality of the Section. I am continuously impressed by their enthusiasm and dedication.

ISAWWA is nationally recognized as one of the preeminent State Sections in all of AWWA. This recognition is neither unintentional nor coincidental. It is the

result of efforts and accomplishments by truly dedicated people. I encourage those of you who are not engaged in Section activities to become involved. The rewards are many. Your participation in Section activities will not only contribute to the vitality of the Section but will also expand your circle of industry associates. Participation will also facilitate professional growth. There is also the potential that you may develop new friends and have some fun. The new website is a valuable resource that can be used to review Section activities and committee functions. If you have questions or desire additional information regarding Section activities or services feel free to contact a Board member or a Committee Chair. All of them can provide you with insight related to participating in Section activities.

See you at WATERCON 2012!!!

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5TH ANNUAL WATER DISTRIBUTION CONFERENCE

DATE	LOCATION & DISTRICT	FACILITY ADDRESS & PHONE
Tuesday, April 17, 2012	Countryside 	Park Place Countryside, Operator Engineers Local 150 Hall 6200 Joliet Road, Countryside, IL 60525 Phone: 708-588-1756

Chicago Water Conservation Efforts

Michael Sturtevant, Chicago Department of Water Management, msturtevant@cityofchicago.org

The Chicago Department of Water Management continues to make great strides in reducing water waste and promoting water conservation and protection of our water supply. Our efforts have produced significant environmental benefits, including reduction in both energy use and wastewater discharge, as well as preventing millions of gallons of water daily from leaving the Great Lakes watershed. From 1991 to 2011, the City of Chicago water usage declined by more than 37%, saving over 315 million gallons per day, which is directly attributable to the replacement of over 700 miles of water main. The Department has placed a high value on protecting our most treasured resource, Lake Michigan, and continues to act responsibly in managing it wisely. This presentation will discuss Chicago's various conservation initiatives implemented such as water main replacement program, use of newer leak detection technologies, update on meter installation program and recent programs in caring for water resources as a whole

Risk Based Asset Management for Water Distribution Systems

Yakir J. Hasit, PhD, PE, yakir.hasit@ch2m.com & Susan Mckee, susan.mckee@ch2m.com - CH2M HILL

For most water utilities, distribution systems represent their largest capital investments. Given the thousands of pipe assets in a system, the difficulty of estimating the condition of the pipes, and budget limitations, determining "which pipes to replace when" is a challenge for most utilities. This presentation describes how risk-based asset management can be used for making such decisions and covers the following areas of asset management:

- Establish utility requirements
- Establish levels of service
- Review inventory, condition, maintenance data
- Evaluate remaining service life, condition and likelihood of failure
- Evaluate consequences of failure
- Determine risk of failure
- Evaluate data used for high risk assets and revise risk calculations, if necessary
- Prioritize replacement and rehabilitation needs
- Develop risk mitigation options such as capital projects, management and O&M measures

This presentation also provides some case studies.

Implementing and Managing a Large Water Utility's Underground Corrosion Control Program

Jeff Schramuk, CP Solutions, Inc., jeffs1167@comcast.net

Public water facilities face a significant economic burden created by the deterioration of buried water infrastructure. As water systems are reaching their life expectancy, the need to rehabilitate or replace water mains is increasing. Cathodic protection of cast and ductile iron mains is a mitigative measure that can reduce premature breaks due to corrosion and extend the service life of both existing distribution water mains and new transmission mains. With the number and costs of water main breaks increasing coupled with inadequate funding for pipe replacements, the Des Moines Water Works has implemented three approaches to mitigating corrosion by using cathodic protection to reduce its water main breaks. DMWW's Underground Corrosion Control Program has shown that the various cathodic protection installations can extend the service life of its water infrastructure at a cost that is much less than either pipe repairs or main replacement.

Valves in the Distribution System

Owen Keenan, M.E. Simpson Co., owen.keenan@mesimpson.com

This presentation will review the importance of regular operation of valves, the various types of valves in a water distribution system, documenting the operation and condition of every valve operated, locating and mapping every valve, utilizing GPS, and the benefits to extending the useful life of all valves for a water utility.

Water Conservation Programs

John Dillon, City of Batavia, jdillon@cityofbatavia.net & Michael Ramsey, Village of Westmont, mramsey@westmont.il.gov

Various water conservation programs and case studies will be discussed: toilet rebate programs, rain barrel programs and other customer incentive programs. The presentation will touch on Federal and State grant programs that are available to homeowners and municipalities. Also covered will be the U.S. Environmental Protection Agency (EPA) program, WaterSense – what it is, and what to look for when you are purchasing water fixtures. To wrap things up, John Dillon will discuss the ISAWWA Water Efficiency Committee's Water Energy Nexus Survey results and how it helps the City of Batavia's plan for the future.

SCADA, The Possibilities are Boundless

Jeff Musinski, Village of Arlington Heights, jmusinski@vah.com

The Village of Arlington Heights replaced our Aquatrol SCADA System with a new SCADA System in 2005. The system continues to grow both in capabilities and complexity. An initial approach with forward planning towards robustness of I/O and speed will reap rewards in the future when more functionality is required.

Improving Taste & Odor, DBP's, and Chlorine Residuals in Water Distribution Systems

Mike Ricks, Water Solutions Unlimited, Inc., mricks@getwsu.com

- To improve these issues you must start by understanding the TOC and natural ammonia in raw water for ground water systems, and assist in reducing raw TOC (algae) in surface water sources.
- You need to also understand the Disinfection By-Product levels (TTHM's & HAA5's) leaving the treatment plant.
- Biofilm is the main problem in the distribution system. WSU has been able to remove biofilm in the system and thus lower DBP's, improve taste and odor, and increase chlorine residuals.
- Several case studies of each of these areas will be discussed in detail.
- Municipalities that purchase water from other utilities need to be aware of their Point of Entry (POE) DBP levels and be ready to make improvements by reducing biofilm in the system.

ASCE Report Card for Drinking Water Infrastructure

William J. Cussen, P.E., LEED AP, Haeger Engineering, LLC, bill-c@haegerengineering.com

Nationally, drinking water infrastructure earned a grade of D- on the 2009 report card issued by the American Society of Civil Engineers. The nation's drinking-water systems face staggering public investment needs over the next 20 years. Although America spends billions on infrastructure each year, drinking water systems face an annual shortfall of at least \$11 billion in funding needed to replace aging facilities that are near the end of their useful life and to comply with existing and future federal water regulations.

Of the nearly 53,000 community water systems, approximately 83% serve 3,300 or fewer people. These systems provide water to just 9% of the total U.S. population served by all community systems. In contrast, 8% of community water systems serve more than 10,000 people and provide water to 81% of the population served.

In the rural areas (non-community based systems), over 83,351 small systems provide the needs for 500 or fewer people each. These smaller systems face huge financial, technological, and managerial challenges in meeting a growing number of federal drinking-water regulations.

Implications for Illinois water distribution systems will be discussed. Design life of the distribution system is 60-95 years and pump stations is 60-70 years for concrete structures and 25 years for mechanical and electrical components. As these systems reach the end of their useful life, a range of financing mechanisms will be needed.

Source: <http://www.infrastructurereportcard.org/fact-sheet/drinking-water>

EXHIBITOR TABLE TOP INFORMATION Table top exhibits are available for \$100.00 per display for Illinois Section AWWA members and \$125.00 per display for non members. This includes 1 exhibit personnel; Additional personnel can be registered at the regular attendee rates. Exhibitor setup begins at 7:15am. Participants will be able to visit table top exhibits prior to the seminar from 7:30am to 8:30am, during morning break and lunch. Electricity will be furnished, but exhibitors are encouraged to bring their own power strip and heavy duty extension cord. Limited spots available

ATTENDEE REGISTRATION & HOURS Registration begins at 7:30am, attendees will be able to visit exhibit booths at this time. The training will start at 8:30am and will conclude by 3:30pm. Earn up to 5 PDHs or RTC hours. Continental breakfast and lunch will be included.

ATTENDEE/ADDITIONAL EXHIBITOR COST \$50.00 for Illinois AWWA members • \$75.00 for non members • \$90.00 for onsite registration

EXHIBITOR COST \$100.00 for Illinois Section AWWA member Exhibitor • \$125.00 for non members Exhibitor

WATER DISTRIBUTION CONFERENCE: Fax this form to 866-521-3591 or Mail to ISAWWA, 545 S. Randall Rd., St. Charles, IL 60174

- Attendee OR Additional Exhibitor - Illinois Section AWWA member - \$50.00
- Table top registration - Illinois Section AWWA member - \$100.00
- Attendee OR Additional Exhibitor - non member - \$75.00
- Table top registration - non member - \$125.00

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DISTRICT 1 TRUSTEE REPORT

Greg Swanson, District 1 Trustee



Yesterday, the river was open and a bald eagle was circling in the sky above. Today, the river is frozen over and covered by the falling snow. It seemed that old man winter had forgotten Illinois over the holidays, but he certainly found us in January. A brand new year, filled with promise, possibilities and ongoing challenges is upon us. ISAWWA staff and volunteers have been busy creating a myriad of professional growth opportunities and useful resources to assist its members in meeting the challenges facing them and achieving their 2012 water-related professional goals. The ISAWWA treasure trove includes many diverse training resources and networking opportunities. Members are encouraged to visit the new ISAWWA website and to explore the articles in this issue of Splash to learn more. Please pay special attention to information regarding Watercon 2012, which will be close at hand when you read this article.

As we look ahead, I will take this opportunity to share a few thoughts regarding our public water supply work and ISAWWA. Every holiday season, much to my family's chagrin, I'm compelled to watch the old black and white holiday classic, *It's a Wonderful Life*. I absolutely adore this movie and its powerful messages regarding the value of each human life and our interconnectedness. Actually, I'm reminded of all of you, when Clarence says "*Strange isn't it? Each man's life touches so many other lives. When he isn't around he leaves an awful hole.*"

There is no doubt that each ISAWWA member has a profound impact many other lives in our shared world. The public water supplies that we collectively create and operate touch millions of lives each and every day. Take a moment to consider the many individual lives that are touched by the water flowing through the water system(s) in which you have invested your time and energy. It may take your breath away, if you are able to actually envision this.

I have been reading an excellent book entitled *Mandela's Way*, which was a gift from my daughter. This book introduced me to the idea of "Ubuntu." I suspect many of you may already be aware of this African concept, but it is new to me. In part, Ubuntu relates to the fundamental interdependence of humans and the way in which positive and productive human interactions bring meaning and value to our lives.

The concept of Ubuntu is closely tied to the success of Illinois public water

supplies. Operators, consultants, vendors, suppliers and regulators must weave their knowledge, skills and efforts together to meet the water supply needs of our communities. In doing so, each water professional plays an essential role in the accomplishment of the common good and enjoys the personal benefits that accompany their contributions. Similar human dynamics underlie the success of ISAWWA, with its staff and members joining together to contribute to the common good and enjoying the accompanying shared and individual benefits.

In his recently published book, *The Big Thirst*, Charles Fishman points out that current Americans grew up in the golden age of drinking water. However, this golden age is slipping away and a new water era is upon us. A variety of significant and growing water challenges exist, which will require fundamental changes in public perception and collective action if we are to perpetuate our standard of living. ISAWWA will play an essential role in helping its members to expand their knowledge and skills to meet these challenges. By the same token, members must sustain and expand their involvement to strengthen and vitalize ISAWWA. Members are encouraged to contact a board member or committee chair to explore opportunities to add their own contribution to ISAWWA. Each member has something special to give and each contribution is valuable, no matter how big or how small.

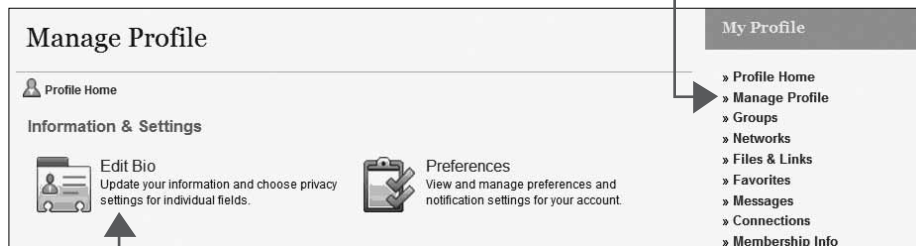
Thanks for all you do to make Illinois communities safe, healthy, and enjoyable places to live.

DISTRICT 2 TRUSTEE REPORT

Theresa O'Grady, District 2 Trustee



Next step is to update your bio. Under “My Profile” (right hand side of the screen), there is subheading titled “Manage Profile”. Click on “Manage Profile” and you see the following:



Next click on “Edit Bio” and start updating your information. Once you have filled in your information and clicked “Save Changes”, you can click on “Profile Home” (above “Manage Profile”) and - voila –your information is now populated in your profile.

If you run into any problems in your explorations, please call or email ISAWWA staff (Laurie, Lisa or Sandi).

Be careful of what you complain about...

When ISAWWA held Strategic Planning in 2010, I voiced my opinion on something that had bothered me about ISAWWA for several years – the ISAWWA website. It frustrated me every time I logged on to find a seminar or even just a phone number for another Board member. I guess I was a little too outspoken about my dislike of the ISAWWA website that day. This was both good and bad - good that it ultimately resulted in the revamping of the ISAWWA website, and bad that my outspokenness was taken as me volunteering to be Chair of the Website Committee. Truth be told, it was worth it. The new website is great.

There are many more things to do on the new website - too much to go into now. If you are attending WATERCON 2012, look for presentations on the new website which will go into all the features the website has to offer for members.

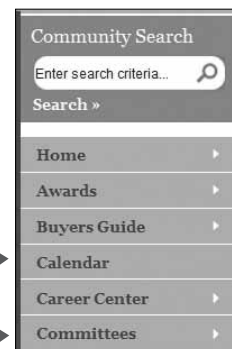
Log on to www.isawwa.org to see for yourself.

If you are a member of ISAWWA, you should have received an email with your user name and password. If you don't know where to start with the new website, begin by logging on with your user name and password.

After you have updated your bio, I recommend that you just start exploring. Good spots to check out include:

- “Latest News” on the right side of the screen below the “My Profile” section. Latest News could include articles posted by members, legislative updates, or information on past ISAWWA events.
- “Calendar” again on the right side of the screen below the “latest News” section. You can also get to an expanded version of the Calendar by clicking on “Calendar” on the left side of the screen. The Calendar will include seminars, webinars, YP events, committee meetings and lots more.
- “Committees” on the left side of the screen. Here you can find information about each committee and especially how you can join the committee!

And I'd like to send out a huge thank you to ISAWWA staff, all the members of the Website Committee and all the other ISAWWA committees that assisted in the revamping of the website. I hope you enjoy the new website as much as the rest of us have so far. Happy exploring!



DISTRICT 2 TRUSTEE REPORT

Don Jensen, Trustee



I have a problem with this year's WATERCON 2012!

As I review the 18 page program for the upcoming joint AWWA/ IWEA conference I can't decide which sessions to attend. There are just too many excellent presentations to choose from. By my count there are: (pictured right)

Now THAT'S a lot to choose from! Should I learn about "Common Mistakes: Water Company Disasters Not Found in the News" or "Practical(ly) Asset Management One Community's Foray into the Asset Management Arena"? What about the Tabletop Exercise Workshop?? I don't want to miss that!

What a great problem to have!

Corrosion control, SCADA, microbial DNA detection, CMMS, tank design, permitting issues, boil orders, Monochloramine monitoring, hydraulic modeling, UV disinfection, smart metering, lead and copper issues, public notification, cellular technology, Hexavalent chromium, project financing and energy management are but a few of the many topics to choose from at this year's WATERCON 2012.

I am excited by the tremendous program that our staff and volunteers have prepared for us this year and look forward to participating in as many sessions as I can.

While the primary purpose is educational, WATERCON 2012 is not all about learning. There are a number of social and networking opportunities that you won't want to miss including Top Ops, Texas hold 'em, meet and greets, water taste test, bike and breakfast, Fuller Award Lunch (Wed.) and a number of Young Professional activities.

Another valuable networking opportunity is on the exhibit hall floor. This year there are 210 booths staffed with people eager to discuss your problems and their solutions.

I hope to see you at WATERCON 2012 in Springfield.

		Water	Both	Wastewater
Monday	Sessions			33
	Tracks			5
Tuesday	Sessions	47	18	29
	Tracks	10	1	4
Wednesday	Sessions	25	44	12
	Tracks	3	5	3
Thursday	Sessions	11		
	Tracks	2		

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DISTRICT 3 TRUSTEE REPORT

Ted Meckes, District 3 Trustee



While this winter has been, overall, fairly mild, cold weather is upon us as I write this article. But, at the end of our cold Midwestern winter, we have the ISAWWA/IWEA Joint Annual conference to look forward to – WATERCON 2012. Yes, another joint conference, which has been a great success for both the water and wastewater people. It is nice to hear the wastewater guy's horror stories; we have more in common with them than one would think. Just ask the vendors, they support both groups and they enjoy the joint conferences as well.

The annual conference scheduled for March 19th- 22nd is the highlight of

the year for myself as an AWWA Trustee. This is where I get to see friends from throughout the State and, hopefully, make some new friends. During my first year (that was 25 years ago) I met an older gentleman at the conference who worked for the IEPA. It turned out that he knew my father, and told me he was going to give me some advice as he saw me wandering around alone. He told me that if I introduce myself to one person a day at the conference I will have three (3) new friends for life. I followed his advice and he was almost correct, two (2) of those people I met at that first conference I attended, I still speak with today. So I encourage all of you to introduce yourself to as many people as possible. I guarantee you will be thankful that you did. For all those new members or younger members - in fact, non-members too - this is especially important. As I have said many times in the past, the water industry is the best industry to work in; we are not competitors but co-workers/friends willing to help each other.

The conference registration packet has been sent out, and it looks like this will be the best conference yet. I am a bit skeptical of the Splash Mob thing (notice the play on words for flash mob) but I will watch those with fewer inhibitions than I have go at it. Once again there are some excellent technical sessions,

along with exciting events like; Top Ops, meter madness, water taste test and the tapping contest. Be sure to get involved and participate.

The Young Professionals also have a full day of events and presentations scheduled for Wednesday. Starting with breakfast and ending with a social hour. This is a great opportunity for young professionals to meet others within the water industry that may become friends, or at least meet fellow professionals who you can build a relationship with to exchange ideas and information for many years.

The conference is more than seeing old friends and meeting new friends. The conference is also a place to discuss any operational issues with multiple vendors, other operators or management staff, informative technical sessions which one can learn from and also receive operator and Professional Engineering education credits; and the highlight of the conference, the Texas hold'em tournament.

After reading my article I have come to the conclusion that this conference is an excellent opportunity to see friends, meet new ones and learn, while having fun. I look forward to seeing all of you at the conference in March; and, hopefully, all of us get to meet at least three (3) new people this year at the conference.

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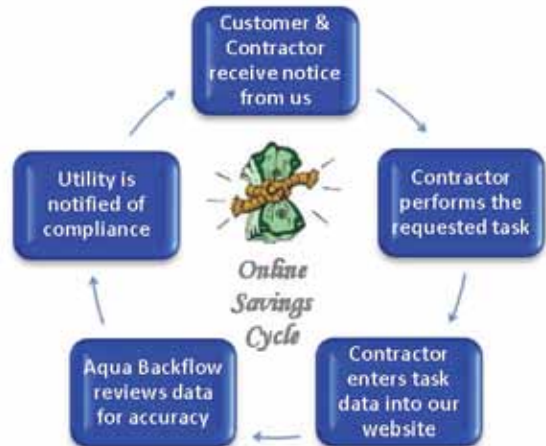
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WATERCON 2012 Operator Competitions

TOP OPS | TAPPING | METER MADNESS



TOP OPS

Tuesday, 11:00 am in the Exhibit Hall

The TOP OPS challenge tests the everyday knowledge of water treatment plant operators as part of a fun, fast paced Q&A tournament. The winner of the final round will represent the Illinois AWWA at the ACE Conference in Dallas, Texas in June 2012.



TAPPING CONTEST

Wednesday, 5:00 pm, 2nd Floor Lobby

Tapping Contest is where water utility teams race to open a cement-lined, ductile iron pipe and install a tap. The winning team will then compete at the ACE Conference in Dallas, Texas in June 2012.



METER MADNESS CONTEST

Wednesday, 5:00 pm, 2nd Floor Lobby

Meter Madness is a fast paced contest that puts competitors against the clock to assemble a water meter from a bucket of parts. The winner of this competition is eligible to compete at the national level Meter Madness contest during the AWWA annual conference in Dallas, Texas in June 2012.

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LEGISLATIVE REPORT

Terry Steczo and Maureen Mulhall



Our bond rating is nearly at junk status, yet the Governor was able to sell bonds to finance debt payment in early 2012. The Governor has announced the closing of at least two State facilities (for the second time in only a few months) and State vendors are still screaming to get paid. Sounds like a familiar tune, right? If you look back at Splash a year ago you would read a very similar report. But there is good news for the water industry. Read the following news released by the Governor's office:

January 18, 2012: Governor Quinn announced nearly \$19 million in Federal funding to address infrastructure needs of 59 small and rural Illinois communities. The funding is provided through the Community Development Assistance Program (CDAP) and will be used to make improvements to water and sewer lines.

The Illinois Department of Commerce and Economic Opportunity (DCEO) administers this Federal program. CDAP funding supports communities with populations of 50,000 and less that aren't located in a HUD designated "entitlement community" or within one of the eight designated "entitlement"

communities. The following communities have been awarded grants:

Arlington, Village of - \$350,000 Water treatment plant improvement
Astoria, Town of - \$350,000 Water treatment plant improvements
Audubon Township - \$350,000 New rural water lines
Ava, City of - \$263,143 Extend water service
Bardolph, Village of - \$125,200 Water system improvements
Beardstown, City of - \$350,000 Transmission line replacement
Benton, City of - \$328,221 Replace water mains
Big Spring Township - \$350,000 New rural water lines
Bingham, Village of - \$350,000 Extend rural water to village & area
Brownstown, Village of - \$146,230 Repair sewer lines/pump stations
Bryant, Village of - \$350,000 Water main extension to Lewistown
Buckner, Village of - \$350,000 New water tower
Bunker Hill, City of - \$270,000 Water main replacement
Carlyle Township - \$350,000 Replace water lines
Carmi, City of - \$350,000 Sewer treatment plant improvements

Coal City, Village of - \$350,000 Sewer extension and lift station
Cowden, Village of - \$350,000 Separate sanitary/storm sewers
Crainville, Village of - \$350,000 Replace water lines
Dakota, Village of - \$350,000 - Well house improvements and water main replacement
Denver Township - \$350,000 Rural water extension to un-served area
Fox Township - \$350,000 Extend Rural water
Freeport, City of - \$350,000 Sewer main replacement
Girard, City of - \$213,855 Repair water lines
Hamilton, City of - \$350,000 Sewer main relining in target area
Herrin, City of - \$350,000 Replace water mains
LaCledde Township - \$350,000 Extend rural water
Lanark, City of - \$202,650 - Detention pond/storm water piping
Lone Grove Township - \$350,000 Extend rural water
Macomb, City of - \$315,750 Water system improvements in target area
Malden, Village of - \$350,000 Water treatment plant and main improvements
Milford, Village of - \$350,000 New storm water system
Morrisonville, Village of - \$350,000 Replace/line sanitary sewers
Mount Auburn, Village of - \$181,055 Repair water lines
Mowequa, Village of - \$240,000 Repair sewer lines
Neponset, Village of - \$350,000 Water treatment plant improvements
North Henderson, Village of - \$118,853 Water system improvements
Oakwood, Village of - \$264,000 Water main replacement
Oconee Township - \$350,000 New rural water lines
Olmsted, Village of - \$332,900 Sewer improvements and extension
Olney, City of - \$294,945 Upgrade storm water system
Paw Paw, Village of - \$350,000 Lining

and repair of sewer collection system

Pike County - \$350,000 Phase 7 waterline expansion

Pittsfield, City of - \$225,000 Lift station upgrades

Pope County - \$350,000 Replace water mains

Preston Township - \$350,000 Extend rural water service

Raleigh, Village of - \$301,078 Water main loop and pump station

Shannon, Village of - \$350,000 Well construction/well house rehab

Shawneetown, City of - \$350,000 Rehab 5 sewer pump stations

Sheffield, Village of - \$350,000 Install new water mains, replace two failing lift stations

Springfield Township - \$282,000 New rural water lines

St. Marie Township - \$350,000 Extend rural water

St. Peter, Village of - \$350,000 Replace sewer lines/pump stations

Stewardson, Village of - \$350,000 Repair water lines

Stockton, Village of - \$350,000 Water main replacement

Waggoner, Village of - \$350,000 Repair water lines

White Hall - \$350,000 Wastewater treatment plan improvements


Winnebago, Village of - \$350,000 Lining and repair of sewer collection system

Wyanet, Village of - \$350,000 Sewer system improvements

Zeigler, City of - \$350,000 Replace water mains

These projects will not only benefit the citizens of each of these communities once they are completed, but they will also serve to employ hundreds, if not thousands, of Illinoisans. The Spring 2012 Legislative Session may or may not be filled with the budget woes of the past few years and some of the contentious legislation that ISAWWA has fought; but at least, for now, there is some good news in our industry.

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WATER UTILITY COUNCIL REPORT

Gerald W. Bever, Chair



This time each year brings two major events in Springfield, WATERCON 2012 and our State Legislature returning to session. Okay, maybe only one major event, but the spring legislative session can be important too.

I am sure that we are all looking forward to the endless supply of political campaign commercials and advertisements that will be forced upon us this election year. But, between their campaign rounds, our legislators will undoubtedly propose some pieces of legislation that could have a major impact on drinking water systems in Illinois. Some of the legislation will be in the form of past bills that continue to be introduced each year in hopes of finally making it into law. Other new bills will also be introduced, some for

very good reasons, and others in an attempt to bypass the water industry's scientific approach.

The Illinois Section AWWA's Water Utility Council (WUC) is made up of fifteen voting members representing municipal utilities, water commissions and districts, investor owned utilities, consultants, and manufacturers. The purpose of the WUC is to monitor proposed legislation and regulations, and to provide factual response on the impact that they would have on water utilities. Sometimes this is in the way of supporting the new legislation or regulation and sometimes voicing opposition. The new ISAWWA.org website and e-mail news blasts offer many ways for members to provide input to the WUC committee, and stay up on legislative and regulatory issues. Please do not hesitate to share your comments on legislation and regulations that affect you.

This time of year also means another annual event will be taking place, only this one is in Washington, D.C. The 2012 Water Matters! Fly-In takes place March 7th and 8th. ISAWWA WUC representatives that will be attending this year's Fly-In are John Donahue with North Park Public Water District, Tom Skelly with Springfield City Water, Light & Power, and Jerry Bever with Baxter & Woodman Engineering.

So what is the Water Matters! Fly-In? For AWWA, the origins were the 2001 AWWA Annual Conference and Exposition, which

was held in Washington, D.C. AWWA took advantage of having ACE in the Nation's capitol by staging a rally on the steps of the U.S. Capitol building and by preparing issue packets for AWWA members to use in visits with their members of Congress. The response was so enthusiastic, and AWWA made such inroads with its issues with Congress, that Association leaders decided to follow up with another event. The first Fly-In was held in the spring of 2002. The purpose of that Fly-In, and all subsequent Fly-Ins, was to advance AWWA's legislative issues on Capitol Hill with the constituents of Congress carrying the messages. The Fly-In also boosts name recognition among members of Congress and helps further establish water professional members as authoritative sources of knowledge and expertise on drinking water issues with members of Congress and their staffs.

This year's Fly-In will focus on promoting a cost effective approach to increasing investment in water infrastructure, the Water Infrastructure Finance and Innovation Act (WIFIA). WIFIA is not a new idea. AWWA has been gradually promoting the concept for the past couple of years, and feels that the time is right to try and get this new infrastructure funding passed by Congress. To learn more about WIFIA, please go to ISAWWA.org and look for the WIFIA White Paper.

I am looking forward to seeing all of you at WATERCON 2012. Until then, "Keep the water flowing".

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WATERCON 2012 Conference Activities

WATER TASTE TEST | WFP SILENT AUCTION | TEXAS HOLD'EM | FLUORIDATION AWARDS



WATER TASTE TEST

Tuesday, 12:00 pm in the Exhibit Hall

Who has the best-tasting water in Illinois? Come watch as Illinois regional taste-test winners from throughout the State compete for the Best Tasting Water. We will have taste and odor experts discuss the intricacies of delivering great-tasting water. The winner of the state competition will compete at ACE for the Best of the Best



SILENT AUCTION: WATER FOR PEOPLE

Tuesday & Wednesday in the Exhibit Hall

Please consider participating in our Silent Auction event. Your donation will help the Section raise the funds needed to benefit thousands of people in developing countries. You can help by bidding on many of the items donated by your exhibitors and attendees. Bidding ends on Wednesday at 11:15 am. Items can be picked up and paid for in the exhibit hall following the conclusion of the bidding.



TEXAS HOLD'EM

Tuesday, 9:00 pm, 2nd Floor Lobby

The Illinois Section AWWA and Illinois Water Environment Association are sponsoring a Texas Hold'em Tournament to benefit both association's scholarship funds at WATERCON 2012. To play, you must have a joker card. Each table sponsor will be given 8 joker cards to distribute to anyone they wish. Look for signs in the exhibit booths of the table sponsors and ask for a joker as your entry ticket for the event.



FLUORIDATION AWARDS

Wednesday, 10:00 am, IDPH Booth

Fluoridation Awards will be given out by the Illinois Department of Public Health on Wednesday at 10:00 am at the IDPH Booth #66, in the 2nd floor lobby.



Illinois Section
American Water Works Association



Water-Energy Nexus Survey Summary Report



The Illinois Section American Water Works Association (ISAWWA)
Water Efficiency Committee

Pilot Project March 2012

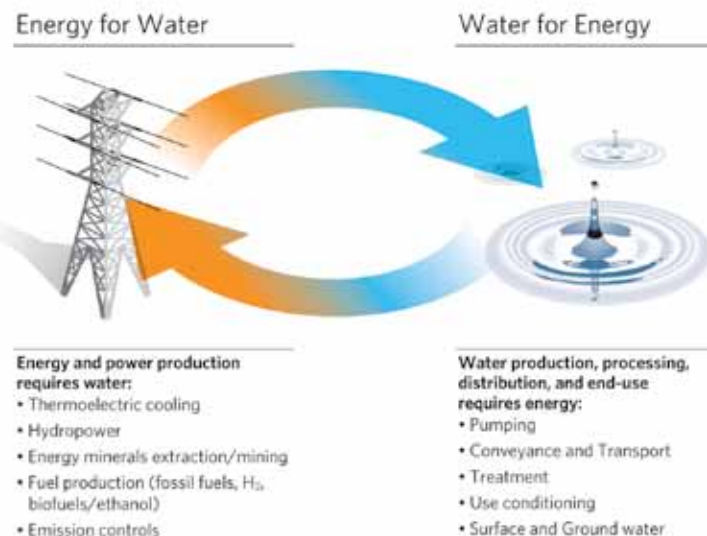
About the Water-Energy Nexus Survey

The Water-Energy Nexus Survey is a pilot project undertaken by the Illinois Section AWWA Water Efficiency Committee to better understand the energy intensity (kWh/MG)¹ and energy cost of Illinois' water supply. For this purpose, energy intensity is best explained through the concept of the water-energy nexus, a term used to describe the dynamic relationship between water and energy (Figure 1). One example of this relationship is the interdependence of energy to produce water and water to produce energy. This survey was developed and distributed statewide to begin gathering data that quantifies the first part of this relationship — how much energy is used to produce the State's water supply. As utilities work towards higher system efficiency, understanding the role and cost of energy from pump to faucet can be useful in short and long-term planning, assessing infrastructure needs, and projecting future revenue requirements.

The focus of this survey is solely on water supply and the energy consumption and cost from withdrawal, conveyance, treatment, and distribution; wastewater was not considered at this time. The goal of the survey is to use the results as an educational tool for utilities interested in increasing their system's overall efficiency, recognizing that saving energy saves water and vice versa. Additionally, the survey heightens awareness about the water-energy nexus with the purpose of moving toward better integration of these resources in the communities and counties throughout the State of Illinois.

¹ Kilo watt hours per million gallons of water.

Figure 1: Water-Energy Nexus²



Why You Should Be Interested

- This survey is one of the only statewide initiatives in the United States to gather water utility level energy use and cost data.
- Survey respondents spent \$29.7 million and 388 million kilowatts to pump 398 trillion gallons of water. That's enough energy to provide 101,570 Illinois residents with electricity for a year³
- Among survey respondents, energy costs on average ranged between 8-15 percent of a water utility's budget, with the maximum reported at 38 percent.⁴ Water and energy efficiency measures can save money over time.
- In a 2008 regional survey of public water suppliers, funding, aging infrastructure, and energy costs ranked as the top three out of 12 possible challenges currently facing public water suppliers.⁵

² Adapted from Mike Hightower, Completing the energy sustainability Puzzle, Energy and Water, Energy-Water Science & Technology Research Roadmap, Sandia National Laboratories, presentation 2005-2006. http://www.sandia.gov/energy-water/docs/EW_RoadmapSum_Solar8-06.pdf Full Report approved by U.S. Department of Energy January 12, 2007. For more information: <http://www.sandia.gov/energy-water/>

³ U.S. Department of Energy, Energy Efficiency & Renewable Energy, Energy Consumption in Illinois Homes, 2005. <http://apps1.eere.energy.gov/states/residential.cfm?state=IL>

⁴ See Table 9.

⁵ Chicago Metropolitan Agency for Planning (CMAP), Water Utility Survey Results, collected 2008. Survey area was the 11 counties of northeastern Illinois: Boone, Cook, DeKalb, DuPage, Grundy, Kane, Kankakee, Kendall, Lake, McHenry, and Will. Survey received 203 responses representing 89% of the population served in the survey area. <http://www.cmap.illinois.gov/water-2008>

Related Research, Data Collection, and Program Integration

At the national level, the water-energy nexus is gaining attention by a number of entities, non-profit and government alike. This attention is well deserved considering the U.S. Geological Survey estimates that energy production in the United States requires more water than any other sector, nearly 49 percent (201,000 million gallons a day) of total withdrawals is used for thermoelectric power. Although the large majority of this use is non-consumptive, approximately 23 gallons per kilowatt-hour on average is thought to be consumed.⁶ On the other hand the River Network's 2009 report, The Carbon Footprint of Water, estimates that water-related energy use accounts for 13 percent of the United States' total electricity consumption, nearly 520 million megawatt-hours annually.⁷ In their report, the River Network takes a step beyond quantifying water related energy use to encompass the carbon footprint of water by calculating associated CO₂ emissions, estimating the energy intensity of varying water sources and wastewater treatments, and identifying and estimating the energy intensity of water end-uses such as heating water for household uses.

At the state level, the California Energy Commission concluded that as of 2005 California's water cycle from source to disposal uses 19 percent of the state's electricity and 32 percent of the state's natural gas energy.⁸ Closer to home, the Public Service Commission of Wisconsin (PSC)⁹ collects energy intensity data (total kWh/MG pumped) from water utilities and calculates annual statistical benchmarks. This data is then used to estimate future revenue requirements for rate cases. Table 1 displays the energy intensity data for 2010, organized by customers served.¹⁰

Table 1. Wisconsin water utilities' total kilowatt hours of electricity per million gallons (kWh/MG) pumped, 2010

CUSTOMERS SERVED	# OF UTILITIES	MINIMUM	MAXIMUM	AVERAGE	MEDIAN
Over 4,000	98	21.30	6,502.72	1,809.54	1,820.43
1,000-4,000	145	184.73	6,401.20	2,036.11	1,877.66
Fewer than 1,000	317	0.79	15,560.16	2,157.01	2,334.13

6 Kenny, J.F., Barber, N.L., Hutson, S.S., Linsey, K.S., Lovelace, J.K., and Maupin, M.A., 2009. Estimated use of water in the United States in 2005: U.S. Geological Survey Circular 1344, 52 p. <http://pubs.usgs.gov/circ/1344/>

7 Bevan Griffiths-Sattenspiel and Wendy Wilson, 2009. The Carbon Footprint of Water. River Network. <http://www.rivernet.org/resource-library/carbon-footprint-water>

8 California Energy Commission. Integrated Energy Policy Report, 2005. <http://www.energy.ca.gov/2005publications/CEC-100-2005-007/CEC-100-2005-007-CMF.PDF>

9 PSC is an independent regulatory agency responsible for the regulation of Wisconsin public utilities including electric, natural gas, water, combined water and sewer utilities and certain aspects of local telephone service. Utilities under this agency's jurisdiction must obtain PSC approval for setting new rates, issuing stocks or bonds, and understanding major construction projects such as power plants, water wells, and transmission lines. For more information: <http://psc.wi.gov/aboutUs/organization/PSCoverview.htm>

10 Public Service Commission of Wisconsin, Water Statewide Statistical Benchmarks, 2010. <http://psc.wi.gov/apps40/Benchmarks/statewide.aspx>

Lastly, the U.S. Environmental Protection Agency (U.S. EPA) Region 5, in partnership with the Indiana Department of Environmental Management (IDEM), is working on a pilot program that involves an in-depth look at energy data within a select group of water utilities. Table 2 shows preliminary results of energy intensity (kWh/MG) data for three selected water utilities. The pilot program will conclude with a summary report, success stories from the 10 participants, and relevant tools to assist water utilities with energy management.¹¹

Table 2. Preliminary energy intensity data for select Indiana water supply utilities, 2010

INDIANA UTILITY	MGD	KWH/MG IN 2010
City of Bloomington Utilities	14	2,198
Mishawaka City Utilities	8	1,653
Valparaiso City Utilities	4	1,981

kWh/MGD= kilowatts per million gallons per day

At the county level, the Santa Clara Valley Water District in California saved an estimated 159 billion gallons of water from 1992-2008 as a result of conservation and recycling. An additional energy savings of 1.82 billion kilowatts of energy was also realized yielding a reduction of 429 million kg of CO₂. This reduction represents the equivalent of providing electricity to 265,000 households and removing 78,000 passenger cars for one year.¹² From national to local levels, the water-energy nexus is being incorporated into water-related research as well as being utilized in water conservation and efficiency programs as an additional resource savings.

This survey differs from the above examples because it focuses not only on the energy intensity (kWh/MG) but also the direct and relative cost of that energy. In addition, the data collected from the survey allows the committee to estimate water loss and its associated energy cost.

¹¹ For more information, contact Liaison Unger, Sustainable Water Infrastructure Coordinator, EPA Region 5, Water Division, Unger.Liaison@epa.gov or 312.353.5089.

¹² Personal communication with Santa Clara Valley Water District staff, May 13, 2009. Figures represent Fiscal Year 1992-1993 to Fiscal Year 2007-2008. Originally sourced from Water 2050, www.cmap.ilinois.gov/water-2050.

Data Collection and Outreach

All survey respondents were requested to provide data for calendar year 2010 to allow for a more accurate comparative analysis. The survey requested the following information from water utilities:

- Number of service connections (total and residential)
- Population served
- Water Source
 - Total annual production
 - Total annual billed/metered/accounted for (authorized consumption)
- Energy
 - Total annual energy consumption (electricity and gas)
 - Total annual energy cost (electricity and gas)
- Total operating expenses (not including capital or depreciation expenses)
- Treatment Type

All data is self-reported and was collected either through an online or paper survey instrument. The committee recognizes the limitations and the potential for unavoidable errors associated with using self-reported data. Follow up contact was made where possible to confirm data sets and to fill in omissions. It should be noted that data collected through this survey will remain anonymous and will not be publicly attached to any particular utility but rather consolidated by water source and utility size.

In the absence of a statewide entity or structure that collects and analyzes water utility energy data, the committee used existing channels to distribute the survey. From May to December 2011, the committee reached out through the Illinois Section AWWA member lists, committee member contacts, water-related professional organizations, and local government organizations. On August 5, 2011 the committee also hosted a webinar to assist water utility personnel with the completion of the survey. As an incentive to participate, respondents were offered a customized report outlining their utility's analysis based on their submitted data. Additionally for each completed survey, the committee made a donation in the name of the participant to Water for People (www.waterforpeople.org) totaling \$440.

¹³ A full copy of the survey instrument can be found on the ISAWWA Water Efficiency Committee website. <http://www.isawwa.org/?page=WaterEfficiency>.

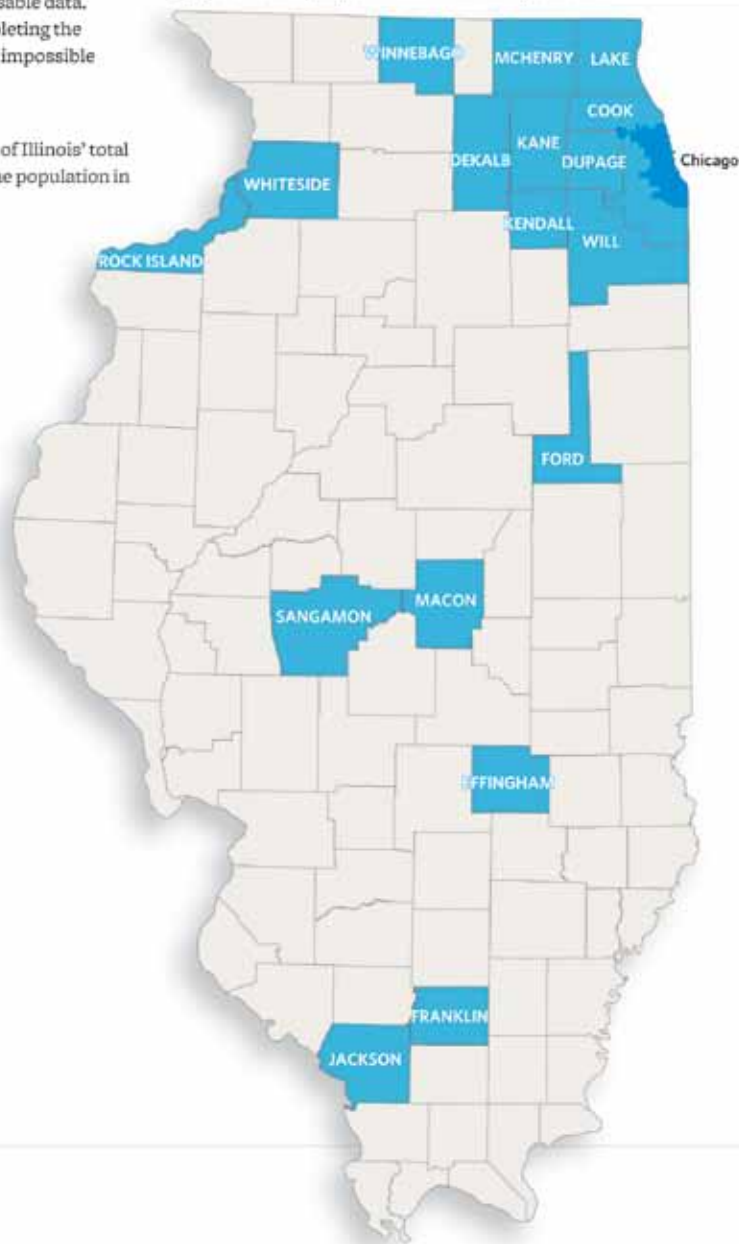
Survey Respondent Summary

In December 2011, the committee began to analyze the data. In total, 52 surveys were received of which 44 had usable data. Several respondents exited the survey before completing the energy usage questions making analysis of the data impossible for all respondents.

The 44 respondents:

- Represent 5,378 million people, about 42 percent of Illinois' total population. Chicago accounts for 2.7 million of the population in this statistic.
- Derive from 17 of the Illinois' 102 counties
- Cover a variety of utility sizes¹⁴
 - Small (n=18)
 - Medium (n=15)
 - Large (n=7)
 - Wholesaler (n=4)

Figure 2: County Representation from Respondents



¹⁴ Size differentiation defined in Survey Metrics section.

Survey Metrics

After data collection, the data were then analyzed using several metrics to assess a few, simple hypotheses concerning water-related energy use among water supply utilities in Illinois. The metrics include:

- Total annual cost of electricity (in dollars)¹⁵
- Electricity costs as a portion of total annual operating expenses (as a percent)¹⁶
- Energy intensity of water production, electricity only (kWh/MG)¹⁷
- Energy costs for water production (electricity and gas, dollars/MG)¹⁸
- Per unit cost of electricity (in dollars).¹⁹



The resulting analysis was then organized according to two utility characteristics: relative size and water source. For size, large (>15,000 service connections), medium (5,000 to 15,000 service connections), small (<5,000 service connections) and wholesaler classes were used. For water source, surface water,²⁰ groundwater and Lake Michigan classes were used. For each subset, the mean, minimum and maximum were determined independently and are displayed in Tables 3 through 12 below followed by an analysis summary. In an effort to produce a higher quality data set, outliers were calculated for each individual table. A data point was deemed an outlier if the numerical value was greater or less than 3 standard deviations from the mean. Additional data points were taken out at the discretion of the committee based on best professional judgment.

¹⁵ Direct survey question, no calculation.

¹⁶ Calculated by dividing total annual electricity cost by total annual operating expenses (does not include capital or depreciation expenses).

¹⁷ Calculated by dividing total annual electricity consumption (kWh) by total annual water production in million gallons/ year.

¹⁸ Calculated by dividing total annual electricity cost by total annual water production in million gallons/ year.

¹⁹ Calculated by dividing total annual electricity cost by total annual energy consumption (kWh).

²⁰ Does not include Lake Michigan utility data.

Utility Size

Table 3. Total annual cost of electricity (\$)

UTILITY SIZE ¹	NUMBER OF RESPONDENTS ²	MEAN	MINIMUM	MAXIMUM
Large	7	\$983,510	\$133,015	\$1,793,293
Medium	15	\$247,732	\$1,455	\$829,181
Small	17	\$37,633	\$1,335	\$262,156
Wholesaler	3	\$1,647,705	\$190,922	\$3,262,345

Table 4. Electricity cost percent of annual total operating expenses (%)

UTILITY SIZE	NUMBER OF RESPONDENTS*	MEAN	MINIMUM ³	MAXIMUM
Large	7	8.0%	1.9%	15.7%
Medium	10	9.0%	1.9%	18.3%
Small	16	7.5%	1.0%	23.7%
Wholesaler	3	13.2%	3.9%	25.0%

Table 5. Energy intensity of water production, electricity only (kWh/MG)

UTILITY SIZE	NUMBER OF RESPONDENTS*	MEAN	MINIMUM	MAXIMUM
Large	7	1,621	218	3,171
Medium	15	1,560	75	6,361
Small	17	2,912	110	12,890
Wholesaler	3	1,946	1,308	2,554

Table 6. Water production cost from energy, total cost = gas+electricity (\$/MG)

UTILITY SIZE	NUMBER OF RESPONDENTS*	MEAN	MINIMUM	MAXIMUM
Large	7	\$178	\$84	\$285
Medium	15	\$140	\$6	\$462
Small	17	\$314	\$44	\$1,272
Wholesaler	3	\$174	\$114	\$218

Table 7. Utility unit electricity cost (\$/kWh)

UTILITY SIZE	NUMBER OF RESPONDENTS*	MEAN	MINIMUM	MAXIMUM
Large	6	\$0.09	\$0.05	\$0.13
Medium	14	\$0.09	\$0.06	\$0.15
Small	17	\$0.10	\$0.01	\$0.16
Wholesaler	3	\$0.09	\$0.08	\$0.10

kWh=kilowatt hours; MG=million gallons

1 For size, large (>15,000 service connections), medium (5,000-15,000 service connections), small (<5,000 service connections) and wholesaler classes were used.

2 *Number of respondents after outliers removed.

3 Percentage may be artificially low due to electric utility subsidy (not fully billed or metered for energy use) or other unreported/unforeseen factors.

Water Source

Table 8. Total annual cost of electricity (\$)

UTILITY WATER SOURCE ⁴	NUMBER OF RESPONDENTS ⁵	MEAN	MINIMUM	MAXIMUM
Groundwater	17	\$92,037	\$1,335	\$430,435
Lake Michigan	16	\$254,421	\$1,455	\$1,489,847
Surface	8	\$845,405	\$183,040	\$1,622,072

Table 9. Electricity cost percent of annual total operating expenses (%)

UTILITY WATER SOURCE	NUMBER OF RESPONDENTS ⁵	MEAN	MINIMUM ⁶	MAXIMUM
Groundwater	17	7.6%	3.3%	14.8%
Lake Michigan	12	8.2%	1.0%	25.0%
Surface	8	14.6%	2.6%	38.0%

Table 10. Energy intensity of water production, electricity only (kWh/MG)

UTILITY WATER SOURCE	NUMBER OF RESPONDENTS ⁵	MEAN	MINIMUM	MAXIMUM
Groundwater	17	2,844	1,014	6,361
Lake Michigan	17	866	75	2,554
Surface	7	2,019	218	3,538

Table 11. Water production cost from energy, total cost = gas+electricity (\$/MG)

UTILITY WATER SOURCE	NUMBER OF RESPONDENTS ⁵	MEAN	MINIMUM	MAXIMUM
Groundwater	17	\$293	\$105	\$725
Lake Michigan	17	\$94	\$6	\$218
Surface	8	\$586	\$151	\$3,336

Table 12. Utility unit electricity cost (\$/kWh)

UTILITY WATER SOURCE	NUMBER OF RESPONDENTS ⁵	MEAN	MINIMUM	MAXIMUM
Groundwater	18	\$0.10	\$0.06	\$0.16
Lake Michigan	16	\$0.12	\$0.07	\$0.40
Surface	7	\$0.07	\$0.01	\$0.13

kWh=kilowatt hours; MG=million gallons

4 For water source, surface water (does not include Lake Michigan utilities), groundwater and Lake Michigan classes were used.

5 *Number of respondents after outliers removed.

6 Percentage may be artificially low due to electric utility subsidy (not fully billed or metered for energy use) or other unreported/unforeseen factors.

Analysis Summary by Utility Size

Variations in the metrics according to size show some meaningful trends. As expected, total annual cost of electricity is directly related to utility size, with wholesalers paying the most and small utilities paying the least. The mean electricity portion of annual total operating expenses for all sizes is relatively within the same range: 7 percent to 13 percent, with the maximum at 25 percent. The mean energy intensity of water production and mean water production cost from energy both show that smaller utilities use more electricity per unit and pay more per unit of water produced than do large, medium or wholesaler utilities, perhaps a result of economy of scale. Finally, for the per unit electricity cost, we might assume that all utilities would pay about the same amount per kWh. However, it is likely that individual contracts, varying energy providers, and municipal partnerships can account for the variance in prices.

Analysis Summary by Water Source

In analyzing data by water source, there are also some potentially meaningful trends. For example, the data suggest higher water production cost from energy per unit of water for surface water utilities, followed by groundwater and Lake Michigan utilities respectively. This could be a result of the varying infrastructure or pumping and treatment requirements for each water source. For example, it is estimated that the energy required for treatment and distribution of potable water for the majority of utilities ranges between 250 kWh/MG to 3,500 kWh/MG.²¹ This wide range appears to take into account such variations like water quality conditions that may require more energy intensive treatment methods such as ion exchange.

Furthermore different water sources dictate different pumping needs. For example, groundwater requires energy to be pumped to the surface and can range between 40 and 80 kWh to lift one million gallons of water 10 feet, depending on pump efficiency.²² Pumping water to the surface is an additional energy requirement (beyond pumping for distribution) that does not apply in surface water and Lake Michigan communities. To this point, the energy intensity of water production is the highest for groundwater utilities followed by surface water and Lake Michigan utilities respectively.

Correlations in the remaining metrics are not as strong. For instance, the total annual cost of electricity seems much higher for surface water and Lake Michigan than groundwater. A similar situation likely exists for the electricity cost portion of the total annual operating expenses. However, these metrics are more likely a function of both utility size and water source rather than solely water source. Finally, for the per unit electricity cost, the conclusion is the same as in the *Analysis Summary by Utility Size* in the previous section.

Some utilities, including many whose water source is Lake Michigan, purchase finished water from a wholesale provider. In these cases, the data does not include the energy embedded in that purchased water. Furthermore, some communities pump and treat raw water while others purchase already treated water. These treatment variations affect a utility's energy consumption. Additionally, it should be noted that a small number of these communities rely on multiple sources for their water supply. For the sake of simplicity, the analysis was calculated using only the primary water source. Statistics for surface water are based on the fewest respondents, thus the apparent trend might be a result of too small a sample size rather than a real trend observed in the data.

21. Carlson, Steven W. and Adam Walburger. *Energy Index Development for Benchmarking Water and Wastewater Utilities*. United States: AWWA Research Foundation, New York State Energy Research and Development Authority, California Energy Commission, 2007. (Pg. 14)

22. Assumes optimum pumping efficiency at 75% (4.2 kWh/MG/1 ft lift) and low efficiency at 40% (7.9 kWh/MG/1 ft lift). Bevan Griffiths-Sattenspiel and Wendy Wilson. 2009. *The Carbon Footprint of Water: River Network*. <http://www.rivernet.org/resource-library/carbon-footprint-water> Originally sourced from the University of California Cooperative Extension, Tulare County.

Water Loss and Associated Energy Costs

Aside from utility size and water source, water loss may be another contributing factor to higher energy intensity and energy-related water production costs for some Illinois' utilities. For the purpose of this survey, we defined water loss as the difference between annual water production and annual billed/metered/accounted for water (authorized consumption). Utilities spend money and resources to pump and treat water that is essentially "lost" in the distribution system. This can be the result of leaking infrastructure often referred to as "real losses" or a result of meter inaccuracies, data handling errors, and unauthorized consumption often referred to as "apparent losses."



Both real and apparent losses contribute to what is known as "non-revenue water."²³ This is water that a utility is paying to produce that is not producing revenue. While accounting for every drop of water is difficult if not impossible, decreasing the amount of water loss in a utility's distribution system can help limit revenue loss and also decrease the associated embedded energy consumption and cost. Water efficiency strategies such as leak detection and repair, advanced metering, timely meter replacement and repair, billing system maintenance, and regular water audit practices can help reduce water and energy loss.

For these reasons, the committee decided to add two additional metrics: water loss as percent of total annual water production²⁴ and energy cost associated with that water loss.²⁵ The data is displayed by utility size in Tables 13 and 14 and water source in Tables 15 and 16.

²³ Terminology references the American Water Works Association (AWWA) Water Audit Method. Free water audit software is available for utilities. For more information: <http://www.awwa.org/Resources/WaterLossControl.cfm?ItemNumber=48055&navItemNumber=48162>.

²⁴ Calculated by subtracting "total annual billed/metered/accounted for" from "total annual water production" and converting to a percentage.

²⁵ Calculated using water loss in million gallons multiplied by the utility's water production cost from energy (electricity and gas, dollars/MG).

Utility Size

Table 13. Water loss (gallons billed/metered/accounted for per gallons produced)

UTILITY SIZE ²⁶	NUMBER OF RESPONDENTS ²⁷	MEAN	MINIMUM	MAXIMUM
Large	7	17.3%	3.9%	29.4%
Medium	15	11.4%	2.4%	20.9%
Small	18	7.6%	1.7%	17.7%
Wholesaler	3	3.1%	1.9%	5.5%

Table 14. Total annual energy (gas and electricity) cost of water loss (\$)

UTILITY SIZE	NUMBER OF RESPONDENTS*	MEAN	MINIMUM	MAXIMUM
Large	7	\$192,786	\$5,589	\$358,042
Medium	15	\$28,518	\$233	\$73,534
Small	17	\$3,668	\$91	\$30,099
Wholesaler	3	\$36,086	\$10,471	\$68,879

Analysis Summary for Water Loss by Utility Size

As expected, water loss and total annual energy cost of water loss is greatest for large utilities, followed by medium and small respectively. One reason for this could be varying miles of pipe, with large utilities having the most miles of pipes and associated potential for leaks and small utilities having the least miles of pipes and associated potential for leaks. Wholesalers show the least amount of water loss on average; however, this could be due to the low number of respondents. It should be noted that age and composition of pipes was not collected with this dataset but would also contribute to water loss, among other factors.

Water Source

Table 15. Water loss (gallons billed/metered/accounted for per gallons produced)

UTILITY WATER SOURCE ²⁸	NUMBER OF RESPONDENTS*	MEAN	MINIMUM	MAXIMUM
Groundwater	18	9.6%	1.7%	19.8%
Lake Michigan	17	8.2%	1.9%	20.9%
Surface	8	16.5%	3.8%	29.4%

Table 16. Total annual energy (gas and electricity) cost of water loss (\$)

UTILITY WATER SOURCE	NUMBER OF RESPONDENTS*	MEAN	MINIMUM	MAXIMUM
Groundwater	17	\$9,861	\$91	\$67,290
Lake Michigan	17	\$21,808	\$226	\$73,534
Surface	8	\$141,351	\$30,099	\$358,042

Analysis Summary for Water Loss by Water Source

Although water loss is more likely a factor of pipe age and composition, mileage of pipes, utility size and billing and metering practices than water source, the survey data shows that on average surface water utilities' water loss percentages are almost double groundwater and Lake Michigan utilities. Additionally, the total average energy cost of water loss for surface water utilities is much greater than other water source utilities in all three calculations of mean, minimum, and maximum. This is likely a result of overall higher percentages of water loss (Table 15) and higher overall water production cost from energy among water sources (Table 11). It should also be noted that surface water utilities had the lowest respondent rate of all water sources which could contribute to the potential trend in the data.

26 For size, large (>15,000 service connections), medium (5,000-15,000 service connections), small (<5,000 service connections) and wholesaler classes were used.

27 *Number of respondents after outliers removed.

28 For water source, surface water (does not include Lake Michigan utilities), groundwater and Lake Michigan classes were used.

Summary of Findings²⁹

- On average, the energy cost percent of a utility's total annual operating expenses is generally consistent regardless of utility size.
- Small utilities tend to use more and pay more for energy per unit of water when compared to larger sized utilities.
- Surface water utilities tend to dedicate a higher percentage of their annual operation budget to energy cost and tend to have higher water production cost per unit of water than groundwater and Lake Michigan utilities respectively.³⁰
- Survey respondents reported 22,501 million gallons of water loss in 2010, equating to a loss of \$2 million in energy costs alone.
- On average, large utilities tend to have higher percentages of water loss and have the highest associated energy costs of water loss.³¹

City of Chicago

The City of Chicago's data was separated for analysis due to the relative size of the system compared to other respondents. Chicago provides Lake Michigan water to approximately 5.3 million people: 2.7 million in the city and 2.6 million in 125 suburban communities covering a total of 806 square miles.³² The City produces 773 million gallons a day: 289 million gallons a day for the city and 484 million gallons a day for suburban communities. The water system contains 4,200 miles of water mains and over 600 miles of water mains 16 to 60 inches in diameter.³³ Data presented here give an overview of the system's energy and water use. More detailed analysis is needed to fully understand energy use in a complex system of this size. Table 17 shows the survey metrics for the City of Chicago.

Table 17. Metrics

Total Cost of electricity (\$)	\$12,220,909
Electricity cost percentage of annual total operating expenses*	3.9%
Energy intensity of water production, electricity only (kwh/MG)	573
Water production cost from energy (gas and electricity, \$/MG)	\$92
Utility unit electricity cost (\$/kwh)	\$0.08

* Chicago also relies on natural gas for pumping. Natural gas is not included in this calculation.

²⁹ Consultant relevant report section for full description of findings.

³⁰ Surface water does not include Lake Michigan utilities.

³¹ Higher percent losses may be due to higher miles of pipe in system comparatively, pipe material, age of pipes/system, or billing inaccuracies. Additionally larger systems often serve well-established, older communities with older water supply systems and therefore increased potential for water loss. It should be noted that pipe age or material was not collected in this survey.

³² For more information: <http://www.cityofchicago.org/content/city/en/depts/water/providers/supply.html>

³³ Michael Sturtevant, Presentation to the Metropolitan Planning Council and Openlands, City of Chicago Water Resource Management, presentation March 31, 2011. <http://metroplanning.org/uploads/cms/documents/sturtevantwisewater.pdf>

³⁴ For example a municipality could appoint one staff member to be responsible for collecting, analyzing, and reporting data on an annual basis to a utility manager, mayor's office or other budget authority.

Recommendations for Future Water-Energy Nexus Study

This project not only provided the committee with a first round of energy intensity and cost data but also provided a valuable learning experience about data-related utility and municipal billing practices. Many local variables such as the placement and number of electricity meters affect how this data can be reported and managed. Additionally nearly a third of the respondents that began the survey online stopped at the energy portion. Many of the utilities had to coordinate with their finance department for energy usage and cost numbers to complete the survey. A few utilities are subsidized by electricity companies meaning some of their energy use is neither metered nor billed at the local level. Some utilities use natural gas in addition to electricity but did not know how many units or the associated cost. Finally for some respondents, it was challenging to calculate data for the calendar year due to staggered billing cycles and frequency. For these reasons, the committee has concluded:



- A consistent and comparable data collection methodology is needed across Illinois and nationally to gather and track water and energy data at the utility level and also to establish benchmarks.
- Greater collaboration is needed between energy and water utilities and within municipal departments in terms of data sharing, tracking, and auditing.³⁴
- More integrated research is needed on water and energy operations at the utility level.
- More education and outreach to utilities, public officials, and the general public is needed on the water-energy nexus and how it can improve efficiency at the utility level.
- Energy data could be provided to customers via a utility's annual water quality report (consumer confidence report).
- More detailed breakdowns of energy use data throughout each step of the water supply process is needed.

Next Steps for a Water Utility

For a water utility, continuing to track water and energy data can be a benefit for short and long-term planning, assessing infrastructure needs, and projecting future revenue requirements. This survey is only the beginning of what a water utility staff member, manager, or team could do to better understand the relationship between their energy and water use. To further explore this connection, the committee recommends interested water utility personnel:

- Contact the Finance Department to gather monthly electric bills and match the bills with pump stations, motors, and other water facilities using electricity. Make sure the electric bills are accurate based on estimated electric usage. Occasionally, electric meters are not properly addressed for the intended facility, or they may have electric usage readings that are not properly calculated.
 - Review the pump curves and motor efficiencies with a qualified engineer, or pump manufacturer especially in those utilities with energy intensive appurtenances (motors and pumps). Many utilities make system improvements without adjusting the pumping equipment. Perhaps there are new overhead tanks or transmission mains that require more efficient pumping equipment. Many utilities have older motors and perhaps an upgrade to the motor would make it more efficient.
 - Talk to neighboring utilities, if practical, to discuss annual energy costs and electric suppliers. Perhaps they have resources to guide your decision in purchasing electricity, or can assist with pumping practices, i.e. time of day, type of motors used (Variable Frequency Drive (VFD), etc.).
 - Discuss the option of off-peak pumping with your utility engineer. Perhaps your electric supplier has reduced rates available. Even curtailing your electric usage for a few hours could make a difference in energy costs.
 - Perform leak detection and repair practices on a regular basis to identify and reduce water loss.
-

Next Steps for the Water Efficiency Committee

As stated above, the purpose of this survey was to begin looking into the energy intensity and cost of Illinois' water supply. Continued data collection and research is necessary to fully understand this issue in Illinois. This pilot project is the first attempt to analyze the data received throughout this process. The committee will present these findings at the WaterCon 2012 Conference in Springfield, Illinois Thursday, March 22nd at 9:30 a.m. The committee is seeking additional participation from Illinois' water supply utilities to increase the number of survey respondents and cover a larger portion of the state's population.

The survey can be found online:

<https://www.surveymonkey.com/s/isawwa-water-energy-nexus>.

All surveys must be completed by June 1, 2012.

In future iterations of this survey, the committee may wish to explore additional metrics such as calculating the associated greenhouse gas emissions of energy use or focusing on how treatment type can affect energy use.

Have questions? Interested in participating?

Contact:

Amy Talbot, *Chair*

atalbot@cmapp.illinois.gov

312.386.8646

www.isawwa.org



For Continued Learning

Water-Energy Nexus

Alliance for Water Efficiency (AWE) and American Council for an Energy-Efficient Economy (ACEEE). *Accessing the Energy-Water Nexus: A Blueprint for Action and Policy Agenda*, May 2011.

<http://allianceforwaterefficiency.org/blueprint.aspx?terms=water+energy+nexus>

California Energy Commission, *Integrated Energy Policy Report*, 2005.

<http://www.energy.ca.gov/2005publications/CEC-100-2005-007/CEC-100-2005-007-CMF.PDF>

Circle of Blue, infographic: Coal and Water- A Resource Mismatch, August 16, 2010.

<http://www.circleofblue.org/waternews/2010/world/infographic-coal-and-water-%E2%80%93-a-resource-mismatch/>

IDModeling, Inc. SmartPumping for Energy Savings: Energy Management and Operational Modeling, webcast, August 30, 2011.

<http://idmodeling.com/pumpenergysavings/>

Macknick, Jordan, Robin Newmark, Garvin Heath, and KC Hallett, National Renewable Energy Laboratory. *A Review of Operational Water Consumption and Withdrawal Factors for Electricity Generating Technologies*, March 2011.

<http://www.nrel.gov/docs/fy11osti/50900.pdf>

National Conference of State Legislatures, Overview of the Water-Energy Nexus in the U.S., 2009. Link cannot be provided at this time.

Public Service Commission of Wisconsin, 2010. Statistical Benchmark (total kWh/ MGD). <http://psc.wi.gov/apps40/Benchmarks/statewide.aspx>

River Network, *The Carbon Footprint of Water*, May 2009.

<http://www.rivernetwork.org/resource-library/carbon-footprint-water>

River Network, *The Water Energy Nexus*, 2008-2011

<http://www.rivernetwork.org/water-energy-nexus>

U.S. Department of Energy, *Energy Demands on Water Resources-Report to Congress on the Interdependency of Energy and Water*, December 2006.

<http://www.sandia.gov/energy-water/docs/121-RptToCongress-EWwEIAcomments-FINAL.pdf>

U.S. Environmental Protection Agency, Energy Efficiency for Water and Wastewater Utilities. September 29, 2011.

<http://water.epa.gov/infrastructure/sustain/energyefficiency.cfm>

U.S. Government Accountability Office, Energy-Water Nexus: Amount of Energy Needed to Supply, Use, and Treat Water is Location-Specific and Can Be Reduced by Certain Technologies and Approaches, March 23, 2011.

<http://www.gao.gov/products/GAO-11-225>

Water-Energy Sustainability Perspectives and Policy Approaches, August 2010.

<http://www.gwpc.org/meetings/forum/2009/documents/Water-Energy%20Summary%202009.pdf>

Water Loss

American Water Works Association, Water Audits and Loss Control, 2012.

<http://www.awwa.org/Resources/WaterLossControl.cfm?ItemNumber=47866&navItemNumber=48159>

American Water Works Association, Free Water Audit Software, version 4.2, 2012.

<http://www.awwa.org/Resources/WaterLossControl.cfm?ItemNumber=48511&navItemNumber=48158>

U.S. Environmental Protection Agency, Office of Water.

Control and Mitigation of Drinking Water Losses in Distribution Systems, November 2010.

http://water.epa.gov/type/drink/pws/smallsystems/upload/Water_Loss_Control_508_FINALDec.pdf

This document was designed by the Chicago Metropolitan Agency for Planning on behalf of the Illinois Section American Water Works Association Water Efficiency Committee.

The Chicago Metropolitan Agency for Planning (CMAP) is the region's official comprehensive planning organization. Its GO TO 2040 planning campaign is helping the region's seven counties and 294 communities to implement strategies that address transportation, housing, economic development, open space, the environment, and other quality of life issues. See www.cmap.illinois.gov for more information.

ISAWWA Water Efficiency Committee Members

**Designates Water-Energy Nexus Survey Task Force*

Amy Talbot, CMAP, *Chair**

Darrell Biennis, CLCJAWA, *Co-Chair**

Bill Christiansen, *Alliance for Water Efficiency**

Bill Davis, CDM

Caitlin Feehan, MWH*

Cary McElhinney, U.S. EPA Region 5*

Cassandra McKinney, *McHenry County**

Catherine Hurley, *City of Evanston*

Danielle Gallet, *Center for Neighborhood Technology**

Dennis Ross, *Otter Lake**

Edward Glatfelter*

Ermin Arslanagic, *Johnson Controls Inc.**

Howard Heil, *Heilzo*

Ian Hughes, *Goose Island*

Jeffrey Edstrom, *Environmental Consulting & Technology*

Jenessa Nesbitt, *DuPage Water Commission**

John Dillon, *City of Batavia**

John Van Arsdel, *M.E. Simpson**

Ken Molli, *Vcolla**

Kevin Wong, *City of Elgin**

Kyla Jacobson, *Elgin Water Department**

Lin Goetz, *City Water, Light & Power**

Margaret Schneemann, *Illinois Indiana Sea Grant (IISG)*

Mary Ann Dickinson, *Alliance for Water Efficiency**

Michael Ramsey, *Village of Westmont**

Michele Piotrowski, *Engineering Enterprises, Inc.*

Mike Sturtevant, *Chicago Dept. of Water Management*

Paul May, *Village of Burr Ridge*

Pete Wallers, *Engineering Enterprises, Inc.*

Regi Paul, *Chicago Department of Water Management*

Robert Halm

Sharon Waller, *Sustainable Systems LLC**

Terry McGhee, *DuPage Water Commission**

Thomas Pape, *Best Management Partners**

Todd Drefcinski, *Kendall County**

William Davis, CDM

TAPPING CONTEST ENTRY FORM

TAPPING CONTEST
Wednesday, March 21, 2012 - 5:00 p.m. 2nd Floor

1) I am interested in the water tapping contest as an (circle one)

- a) Individual
- b) Member of a team

2) If you circled "Member of a team", from which municipality, company, or place of work is this team? _____

3) Do you/would you need assistance (sponsorship) with the purchase of tools, equipment, necessary to practice and/or compete? Yes _____ No _____

4) Do you/would you need a location, or area to practice? Yes _____ No _____

5) Please provide the following information:

Name: _____

Employer: _____

Address: _____

City: _____

State: _____

Zip: _____

Phone:/ Email: _____

For more information, and send this form to either:

Tony Cuzzone (630) 530-6456 office
City of Elmhurst (630) 530-6403 fax
209 N. York Rd. Tony.cuzzone@elmhurst.org
Elmhurst, Illinois 60126

Illinois Section AWWA will also provide one room night for contestants during the conference with double occupancy. If you need to have a room provided for you, please make your reservation at the Crowne Plaza or Holiday Inn and contact the Executive Director with your confirmation number. The Illinois Section will pay for one nights lodging for every two contestants. Reservation incidentals or no-shows will be the responsibility of the contestants.

_____ I need a room provided for me at the Crowne Plaza/Holiday Inn Express

I have made a reservation under the name of _____ for _____ night.

The names of the contestants occupying this room are:

#1 _____ #2 _____

My hotel reservation number is # _____.

I understand that I am responsible for the room charges in their entirety if I do not show up and fail to cancel this reservation. If I am staying for more than one night, I understand the Illinois Section AWWA will only pay for one nights lodging. Conference registration for the day of competition is complimentary. You will be automatically registered for Tuesday's conference and will be given a free lunch ticket to the Fuller Award Lunch.

TOP OPS CONTEST ENTRY FORM

11:00 am - Tuesday, March 20, 2012

Team Name: _____

Contact Person for Team: _____

Contact Person's Phone # _____ Fax # _____

Contact Person's Email: _____

Utility Name and Address: _____

Team Members' Names:

#1: _____

#2: _____

#3: _____

Top Ops is a contest between water treatment operators to showcase their talents by competing against each other in a competitive, fast-paced question-and-answer tournament. Questions encompass all aspects of water operations and treatment, comparable to the water operator certification exam. A moderator poses a variety of multiple choice questions to a panel of teams, each of which attempts to be the 1st to respond. The team correctly answering the most questions in the final round is awarded a trophy and a chance to represent the Illinois AWWA Section at the national conference in June, 2012 in Dallas, Texas. The Illinois AWWA Section assists with travel costs for the winning team to compete in Dallas, Texas.

Teams can consist of one, two, or three operators and do not have to be from the same utility. In order to complete locally, you do not need to be a member of AWWA. However, if you compete at the national level, you will be required to be an AWWA member, an employee of a utility member, or organization member of AWWA. Team members must work full time as a water treatment plant employee, a water distribution system employee, or in a first-line supervisor capacity. They must also possess a valid operator, laboratory, or distribution certificate.

[Fax Your Completed Form To: Laurie Dougherty at \(866\) 521-3591](#)

Illinois Section AWWA will also provide one room night for contestants during the conference with double occupancy. If you need to have a room provided for you, please make your reservation at the Crowne Plaza or Holiday Inn Express and contact the Executive Director with your confirmation number. The Illinois Section will pay for one nights lodging for every two contestants. Reservation incidentals or no-shows will be the responsibility of the contestants.

_____ I need a room provided for me at the Crowne Plaza/Holiday Inn Express.

I have made a reservation under the name of _____ for _____ night.

The names of the contestants occupying this room are:

#1 _____ #2 _____

My hotel reservation number is # _____.

I understand that I am responsible for the room charges in their entirety if I do not show up and fail to cancel this reservation. If I am staying for more than one night, I understand the Illinois Section AWWA will only pay for one nights lodging. Conference registration for participants for the day of competition is complimentary. You will be automatically registered for Tuesday's conference and will be given a free lunch ticket to the Fuller Award Lunch.

[Please contact Larry Thomas, Top Ops Committee Chair for more information](#)
Phone: 815-459-1260 | Email: lthomas@baxwood.com

METER MADNESS COMPETITION ENTRY FORM

Wednesday, March 21, 2012 - 5:00 p.m. 2nd Floor

Supervisors encourage your staff to participate. It's a great way for a small utility to showcase their skills. Practice meters are available through AWWA at no charge. A demonstration video is also available online at (www.awwa.org). If you have any questions, contact Bruce Vaickus at bvaickus@channahon.org or 815-467-8320.

The competition will be held at 5:00 p.m. and the winner will receive a trophy and \$750 towards travel and expenses to represent the ISAWWA at the national competition in Dallas, Texas.

1. We need to receive your entry form by: February 28, 2012.
2. You do not have to be a utility member to enter the competition.
3. Complete all information below and send this entry form to the email or fax number listed below.

Contestant Name: _____

Utility/Company Represented: _____

Contact Person's Phone #: _____ Fax #: _____

Contact Person's Email: _____

Utility/Company Name & Address: _____

T-Shirt Size: _____

FAX YOUR COMPLETED FORM TO:

Bruce Vaickus at bvaickus@channahon.org or 815-467-0854

Illinois Section AWWA will also provide one room night for contestants during the conference with double occupancy. If you need to have a room provided for you, please make your reservation at the Crowne Plaza or Holiday Inn and contact the Executive Director with your confirmation number. The Illinois Section will pay for one nights lodging for every two contestants. Reservation incidentals or no-shows will be the responsibility of the contestants.

_____ I need a room provided for me at the Crowne Plaza/Holiday Inn Express.

I have made a reservation under the name of _____ for _____ night.

The names of the contestants occupying this room are:

#1 _____ #2 _____

My hotel reservation number is # _____.

I understand that I am responsible for the room charges in their entirety if I do not show up and fail to cancel this reservation. If I am staying for more than one night, I understand the Illinois Section AWWA will only pay for one nights lodging. Registration for participants for the day of competition is complimentary. You will be automatically registered for Wednesday's conference and will be given a free lunch ticket to the Fuller Award Lunch.

HAVE YOU TRIED IT?

the NEW Illinois Section AWWA member resource website

The screenshot shows the homepage of the Illinois Section American Water Works Association website. The header features the organization's logo (a stylized 'I' with water droplets) and the text "Illinois Section American Water Works Association" with the tagline "The authoritative resource in the State dedicated to Safe DRINKING water." Below the header is a navigation bar with links for "Contact Us", "Sign In", and "Register". The main content area is divided into several sections: a "Community Search" box on the left with a search input field; a "Home" section with a list of menu items including "Buyers Guide", "Career Center", "Committees", "Resources", "Members Only", "Splash", "Training", and "WATERCON"; a "Featured Members" section listing "Theresa O'Grady" and "Kyle B. Basham Jacobson"; a "Safe Drinking Water is Priceless" section with a photo of a child drinking water; a "Membership" section with a photo of hands stacked together; an "Education" section with a photo of a classroom; and a "Young Professionals" section with a photo of people wearing hard hats. On the right side, there is a "Sign In" form with fields for "Username" and "Password", a "Remember Me" checkbox, and a "Sign In" button. Below the form are links for "Forgot your password?" and "Haven't registered yet?". At the bottom right, there is a "Latest News" section with a "More" link, a "9/18/2011 Chair Report" link, a "Calendar" section with a "More" link, and a "12/1/2011 Mechanical Seal and Pump Reliability Webinar" link, followed by a "12/6/2011 Math for Water Works" link.

see it for yourself at:
www.isawwa.org

BACKFLOW COMMITTEE

Mike Eisenhauer, Chair



WATERCON 2012 is right around the corner and the Backflow Committee would like to encourage everyone in the water industry to attend this year's event and help to make it the most spectacular event ever!!! The Backflow Committee will be sponsoring a booth again this year to help answer whatever backflow related questions you may have. This has proven to be a very valuable tool to those water systems that have questions about their backflow prevention program. Assistance will be provided by very knowledgeable, backflow professionals manning our booth during the conference.

With a greater emphasis than ever before, now is the time to evaluate your cross-connection control

program and ask a few simple questions. Do you know where all of the backflow assemblies are located in your water system? Have all cross-connections in your water system been removed or protected by an approved backflow assembly? Have all testable backflow prevention assemblies in your water system been tested by a licensed CCCDI in the last twelve months? If you answered yes to these three questions, congratulations. You are among the very best of the best. If you answered no to any of these questions, the Backflow Committee stands ready to help you achieve success and become the best of the best.

See you in Springfield.

MAC COMMITTEE

Terry Locke, Chair



The new Exhibit Hall hours should also benefit everyone, especially the exhibitors. The Grand Opening of the Exhibit Hall, at 9:00 a.m. on Tuesday, March 20th, will be a new experience and should be a fun time. During the first hour following the opening, there will be no technical sessions, so we anticipate a lot of activity in the Exhibit Hall.

Talk about a busy two days. Here's a quick overview. After the Grand Opening, Tuesday's Exhibit Hall schedule includes Top-Ops, the Water Taste Test, a box lunch and the Meet & Greet. Wednesday will include the IWEA putting contest, the Logo Hunt, a buffet lunch and the Silent Auction. The entire schedule with event times is printed elsewhere in this issue of Splash.

As I write this article all 212 booths in the Exhibit Hall for WATERCON 2012 have been sold out. The Exhibit Hall is going to be busy with all sorts of activities that we feel everyone will enjoy.

I want to remind all exhibitors, once again, that lunches are not included in the booth price. You need to order your lunch for Tuesday and Wednesday separately from your booth reservation.

Tuesday's box lunch is \$10.00 per person and Wednesday's buffet lunch is \$25.00 per person. If you've already reserved your booth, you can still go to the registration page on the NEW website of the Illinois Section AWWA, www.isawwa.org and order your lunches.

Also, keep in mind that the Exhibit Hall has new hours this year. Tuesday, we are open from 9:00 a.m. until 6:00 p.m. and on Wednesday from 9:00 a.m. until 4:00 p.m. Please remember that early teardowns are not permitted unless approved by the Executive Director of the ISAWWA.

If anyone has any questions you can send them to any member of the MAC Committee. The list of members is available at www.isawwa.org.

We look forward to seeing everyone at WATERCON 2012 in Springfield in March.

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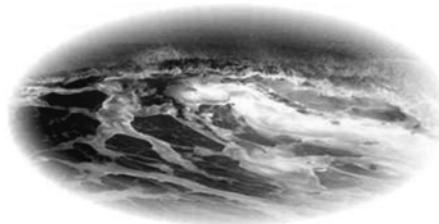
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SMALL SYSTEMS COMMITTEE

Pat Gleason, Committee Member



In 2012, ISAWWA will have many small and large system operators attending the annual ISAWWA WATERCON 2012 conference. We are encouraging operators to attend the small systems Operator Day hands-on nuts-and-bolts training for minimally staffed (though operators of larger utilities will learn a lot too) utilities. This training will be applicable to those working the potable and non-potable sides of the water business. And we guarantee you will learn a lot.

So, who exactly is an operator of a small system? Meet Scott Bailey.

Approximately twenty-five years ago Scott Bailey was a street department employee for the City of Monticello, Illinois, located in the East Central part of the State. His job description included assisting with the repair of an occasional water main break. It was also around that time when then water operators Ray Gosset and Charlie Giddings mentioned to Scott that there would come a day, in the near future, that Monticello would need someone else to run the city's water department.

Following the conversation, Bailey set out to learn all that he could from his water department elders. Bailey traveled far and wide throughout the region to gather the education needed to attain his water operator's license. After completing a one night a week class at Lincoln Land Community College in Springfield

and a training course at the Environmental Resource Training Center (ERTC) in Edwardsville, Bailey pursued the path that many operators had traveled before him and that many have followed since. Bailey eventually worked his way up the operator license ladder, starting with a Class D, then onto a Class C, and finally earning a Class B and Class A.

Twenty-five years later, Bailey is still providing the City of Monticello residents with their water. He is also the licensed operator for fellow Piatt County communities: Cisco, DeLand, and White Heath. This former secretary for the 15 Counties Water operators group is also an Illinois Section AWWA and Illinois Rural Water member.

When asked what his greatest challenge was during the course of his career, he thought for about a half second and stated it was getting Monticello's water system into compliance with the then pending reduced arsenic MCL. Due to his proactive approach, Bailey was able to meet the arsenic MCL with room to spare to avoid any non-compliance notices.

Regarding future challenges for the water industry, he offered an abrupt answer: aging infrastructure. Bailey noted that throughout the years, the miles of pipe in his distribution system all have different life expectancies, yet they all seem to break at the same time. Further, he stated the most significant challenge facing the smaller system that he operates is the capacity for the villages to keep up with the evolving rules and regulations. Not that they are unwilling to meet the changing rules, rather that the rapidity of change



challenges their ability to afford the alterations needed to maintain compliance. Adding to this challenge is, generally speaking, a small community's inability or unwillingness to maintain meters, the cash registers of the system.

Despite these challenges, Bailey is excited about the future of the industry. When asked about future operators, he enthusiastically comments about one of his younger staff members who has "really embraced it." Acknowledging that IRWA, ERTC, and water operators groups are extremely diligent in the training they provide, Bailey would still like to see more training available. Currently, the Small Systems Committee is evaluating and hoping to determine how to fill in any gaps that will make it easier for operators to gain needed training in the future. Bailey then commented on his success in retaining the information presented during training: "I have always taken notes. It's very important to have them as a point of reference". Bailey further offered that he has taken notes on presentations, and often refers to them when faced with a new challenge.

Following this Q&A session, the author offered Bailey an opportunity to join the Small Systems Committee. With little reluctance, he agreed. "Every day you learn something different and face another challenge." After 25 years, why stop now?

The Small Systems Committee is expanding with new programs and offerings. To keep up with the demand we are always looking for volunteers to staff the Committee. Please contact Jon Meyer at meyerjp@cdmsmith.com, or come see us at WATERCON 2012, where the Small Systems Operators Day will be something you have never experienced before! Or visit us Tuesday night at WATERCON 2012 when we will have a meet and greet where you can learn more about us. Visit the ISAWWA website for a list of additional Small System Committee contacts.

SOURCE WATER PROTECTION COMMITTEE

Robyn Doescher, Chair



The ISAWWA goes International with the newest member of the Source Water Protection Committee. You never know where new members will come from - we put out a request for help with a survey and Lydia Stamatopoulos responded from Greece! She has now joined the Committee and calls in for our monthly conference calls. Lydia will be attending WATERCON 2012 in March so come join us in welcoming her to the U.S. and to a great conference. The Source Water committee will be meeting Tuesday at 10:00 in the Capital Room, and all our welcome to join us.

Lydia has a Master of Science in Environmental and Water Resources Protection and both a Bachelor and Master of Science in Civil Engineering. She

is currently employed at Stamatopoulos and Associates. The firm has performed the geotechnical investigations and done design in many of the most important public and private projects in Greece. Lydia's concentration has been in investigations, design recommendations and construction supervision of hydroelectric plants, transportation systems, earth fill dams, harbor and offshore facilities, industrial developments, and high rise buildings. She has participated in six European Community Research Projects, and has been published in scientific journals and conference proceedings. For the past three years she has been specializing in environmental and water resource protection.

Please help make Lydia feel welcome.

WATER EFFICIENCY COMMITTEE

Amy Talbot, Chair



Want to test your water efficiency knowledge? Come join the Water Efficiency Committee at our WATERCON 2012 booth to spin the prize wheel for a chance to win leak detection tablets or a shower timer. Stay around to find out what the Committee has been busy with this past year. The first round of our current project, the Water-Energy Nexus Survey, is complete with 42 participating utilities throughout the State. Wonder how much energy on

average is used by large versus small water utilities or by groundwater versus surface water utilities? Make sure to attend the Committee's session, "How Much Energy do Illinois Utilities Use? See the results of the Water-Energy Nexus Utility Survey" on Thursday, March 22, at 9:30 a.m. for more information. Additionally, summary reports of the survey data will be available at the booth. See everyone there!



PICTURE: Amy Talbot and Caitlin Feehan at Water Efficiency Committee booth at WATERCON in 2011.

WATER DISTRIBUTION COMMITTEE

Owen Keenan, Chair



Roses are red,
Violets are blue,
Happy New Year,
From our committee to you.
(I know, don't quit my day job.)

Our Committee enjoyed a productive 2011, and we are all looking forward to another great year in 2012. Our Committee is strong and continues to grow. We have two new members. We welcome Firat Sever and Richard Parr to the Committee, and we look forward to working with them.

Our Committee met at the ISAWWA office in St. Charles on December 9, 2011 to plan out this year's projects. Who remembers the old grand prize game

from WGN TV? At this year's WATERCON 2012, we will have "BOZO BUCKETS" at our Committee's booth, and we hope that people will stop by to play and have some fun. Also at WATERCON 2012, our Committee will have a sit down meeting in the Capital IV room on the third floor on Tuesday, March 20th at 3:00 pm. We encourage anyone interested in our Committee to join us at that time. There may be beverages ...

If you can't get away to Springfield to attend WATERCON 2012 in March, please try to go to our 5th Annual Water Distribution Conference in Countryside on Tuesday, April 17th. Last year, this conference had over 130 attendees who enjoyed meeting the exhibitors and listening to the presentations. This year, the following presentations will be given:

- "Chicago Water Conservation Efforts" by Michael Sturtevant, Chicago Department of Water Management
- "Risk Based Asset Management for Water Distribution Systems" by Yakir J. Hasit and Susan Mc Kee, CH2M Hill
- "Implementing & Managing a Large Water Utility's Underground Corrosion Control Program" by Jeff Schramuk, CP Solutions
- "Valves in the Distribution System" by Owen Keenan, ME Simpson Company
- "Water Conservation Programs" by John Dillon, City of Batavia and Michael Ramsey, Village of Westmont

- "SCADA The Possibilities are Boundless" by Jeff Musinski, Village of Arlington Heights
- "Improving Taste & Odor, DBP's, & Chlorine Residuals in Water Distribution Systems" by Mike Ricks, Water Solutions Unlimited, Inc.
- "ASCE Report Card for Drinking Water Infrastructure" by William J. Cussen, Haeger Engineering

For more information on these presentations, please visit www.isawwa.org Please note that the costs will remain the same as last year:

- Attendee: \$50.00 for ISAWWA members, \$75.00 for non members, \$90.00 for on site registration
- Exhibitor: \$100.00 for ISAWWA members, \$125.00 for non members

Kudos to our Committee member Paul Schumi for his work an asset management project, and Michael Ramsey for teaching the "Water Distribution System Operation and Maintenance" night course for public water supply operators. Great work guys!

Finally, last but not least, thanks to Lisa Hoffhines for keeping things organized and on schedule. What would we do without our Lisa?

We look forward to seeing you in Springfield and/or in Countryside.

WATER FOR PEOPLE SILENT AUCTION

Barb Waddell & Mary Johnson, Coordinators

It is that time of year again for the upcoming ISAWWA and IWEA annual conference - WATERCON 2012. The conference will be March 19 through 22 at the Crowne Plaza in Springfield. We will be holding the Water for People Silent Auction on Wednesday March 21st.

Last year between the Silent Auction, the 50/50 raffle, and other events we were able to raise \$14,000.00 for Water for People. This year we hope to raise even

more than last year. With your help, we hope to achieve this goal. Please consider donating to this worthy cause. We will gladly accept any donated item from our exhibitors and from any member that is willing to participate in the auction. In the past we have had sporting tickets events, sporting items, camping items, power tools, I-pods, digital cameras, TV's, gift cards, gift baskets and homemade wines donated. Use your imagination and please donate!

We do ask to have the item at a \$25.00 minimum value and please do not donate items with your company logos on them. If you have any questions you can contact me at barb_wfp@yahoo.com I will be visiting each of the booths Tuesday morning, March 20, with a welcome letter and any further information you may need about the Water for People Silent Auction.

Thank you in advance for your support.

YOUNG PROFESSIONALS COMMITTEE

Andrea Putz, Chair



Do people enjoy crashing into each other in bumper cars for charity?

Yes, they do! We had a great showing on January 19th at our Young Professionals-sponsored Whirlyball Event in Lombard that benefited Water for People. Many thanks to the sponsors whose donations covered the cost of this event: M.E. Simpson (Gold Sponsor) and American Ductile Iron Pipe (Silver Sponsor). Because of their generosity, all the proceeds from the ticket sales went to Water for People. In total, \$310 was raised. In addition, thanks goes to Whirlyball for donating a gift card that was raffled off to the lucky winner: David Ray of Greeley & Hansen! Special thanks to Raj Arora of American Ductile Iron Pipe for organizing the event. It was a blast! You can see a video of everyone crashing around and beating each other with plastic scoops at the Illinois Section AWWA YP Committee's Facebook page. While you're at it, "like" our page!

Wednesday, March 21 is Young Professionals day at WATERCON 2012

Are you planning on attending WATERCON 2012 in Springfield? Well it couldn't have been a better choice because you are going to the premier organization for water professionals in the State. Why not check out all the cool YP activities happening on Wednesday, March 21?

- Start the day right with the [Young Professionals Breakfast and Presentation](#) at 8:00 a.m. Yeah, it's early but other fun and drowsy Young Professionals will be there too. The breakfast will be followed at 8:15am by a presentation by Rebecca Deopke, Director of Client Services at Mondo Learning Solutions, who has spent the past 22 years in training and development. Rebecca will be speaking about Business Development and Consulting in Today's Economy.

- Then build your interview skills at [You Want Me to do What?! How to Give an On-Camera Interview](#) at 9:15 am with Amber Sabin, Public Information Officer for City Water, Light and Power in Springfield. At some point or another, many water and wastewater professionals find themselves needing to give an interview, speak at a public event, or talk with the media "on the record". This interactive workshop covers public speaking and public relations basics and gives the attendees an opportunity to volunteer for a brief practice on-camera interview.

- Come watch your fellow Young Professionals and students put their newly-minted public speaking skills to the test at the [Young Professionals and Students Paper Presentations](#) at 11:15 a.m. Three presentations on a range of water and wastewater topics will be given by Illinois Section AWWA and Illinois WEA students and young professionals.

- At 2:00 p.m., check out the latest and greatest in drinking water and wastewater projects at the [Student/Young Professional Poster Contest!](#) These posters share the results of students' and young professionals' work and research. All poster contest participants get free conference registration and lunch on March 21. The drinking water 1st place winner will compete against other Section winners at ACE12 in Dallas, TX, whereas the 2nd place winner will receive a \$250 cash prize. The wastewater 1st and 2nd place winners will receive cash prizes of \$200 and \$100, respectively. Enter the

contest or stop by to cheer on your favorite poster. Email krehg@baxterwoodman.com for an entry form.

- After an exciting day of YP-sponsored conference activities, come have drinks and wind down with all the fun people you've met at the [Young Professionals Social Hour and Bags Competition](#) at 4:00 p.m. And show them your "mad" bag skills. This is a great chance to network with other conference attendees and find out what cool projects they're working on. Email Sean O'Dell for more information at sodell@baxterwoodman.com.


By the way, you might be wondering what a Young Professional is. A YP is anyone who has been in the water industry for less than 10 years, or members or prospective members age 35 or younger. For more information, or to be added to the YP email distribution list, please contact me at andrea.putz@cityofchicago.org. There are plenty of opportunities to become involved in YP activities or the YP Steering Committee.

"Invest in your future...invest in your profession...invest in yourself"



PICTURED ABOVE: Water for People fundraising event: Whirlyball on January 19, 2012 in Lombard, Illinois.

MIDWEST WATER & WASTEWATER TECHNOLOGY CONFERENCE EXHIBITS AVAILABLE

DATE	LOCATION & DISTRICT	FACILITY ADDRESS & PHONE
Tuesday, June 05, 2012	Crystal Lake 	McHenry County College 8900 US Highway 14, Crystal Lake, IL 60012 Ph: 815-479-7879

ABOUT THE CONFERENCE The Midwest Water & Wastewater Technology Conference is the new and improved technology conference for industry professionals hosted by the Illinois Section AWWA Information Management and Technology (IMTech) committee in conjunction with the Central States Water Environment Association. The Technology Conference incorporates multiple learning tracks related to the planning, design, implementation, and operation of water and wastewater-based technologies. The multi-track approach makes the conference ideal for utility managers, IT professionals, as well as operations and field staff. If you can only attend one technology conference this year, this is the one to attend!

- **GPS Data Collection Training** Andrew Robb, Autodesk AEC & Trimble MGIS Sales
- **Business Applications for GIS** Thomas A. Thomey, MGP Inc., & Douglass Strempek, Village of Norridge
- **GIS Consortium: What is it and How to Implement it?** Thomas A. Thomey, MGP Inc.
- **Corrosion of Underground Metallic Structures: Cathodic Protection System for Underground Corrosion Mitigation** Rogelio de las Casas, EN Engineering
- **Norridge Cross Connection Tracking Feasibility Study: How Technology can Enhance Your Cross Connection Control Program** Daniel Eisenhauer, Backflow Solution Inc. (BSI)
- **Open Source GIS** Greg Calcari, mPower Innovations
- **Introduction to Wireless Transmitters and Demonstration** Jon Hall, Novaspect, Inc.
- **Smart Phone/Tablet Application for SCADA and HMI over City Wide Wi-Fi Network** Tom Kirkland, ELAN Technologies & Dave Weakley, City of Palos Hills
- **GE Proficy iFix offers more than Pretty Pictures and Alarms** Todd Steege, Industrial Network Systems
- **Case Study: Secure Remote Access for Asset Management, SCADA, GIS for the Downers Grove Sanitary District** Clay Campbell, Downers Grove Sanitary District & Larry Kravets, B&W Control Systems Integration
- **Automatic Meter Reading Case Study: The City of Chicago Department of Water Management** City of Chicago Representative
- **Excel Training** Jim Huchel, City of Crystal Lake
- **Asset Management Overview** Joel Knight, PE, Lucity
- **Google Earth and GIS for Utility Locating** Frank Frelka, DuPage Water Commission
- **Smart Data-Enabled Motor Control Centers** Nick Fracasso, Rockwell Automation
- **SCADA: Risks & Rewards to Moving to a Cloud Environment** Thomas Gluzinski, Paladin Consulting
- **Enterprise GIS** Mark Robbins, Esri



EXHIBITOR TABLE TOP INFORMATION Table top exhibits are available for \$100.00 per display for Illinois Section AWWA (ISAWWA) and Central States Water Environment Association (CSWEA) members and \$125.00 per display for non members. This includes 1 exhibit personnel; Additional personnel can be registered at the regular attendee rates. Exhibitor setup begins at 7:00am. Participants will be able to visit table top exhibits prior to the seminar from 7:30-8:30am, during morning and afternoon breaks and lunch. Electricity will be available; exhibitors are encouraged to bring power strips and heavy duty extension cord. Limited spots available

ATTENDEE REGISTRATION & HOURS Registration begins at 7:30am, attendees will be able to visit exhibit booths at this time. The training will start at 8:30am and will conclude by 3:30pm. Earn up to 5 PDHs or RTC hours. Continental breakfast and lunch will be included.

ATTENDEE/ADDITIONAL EXHIBITOR COST \$50.00 ISAWWA/CSWEA members • \$75.00 for non members • \$90.00 for onsite registration

EXHIBITOR COST \$100.00 ISAWWA/CSWEA member Exhibitor • \$125.00 for non member Exhibitor

Midwest Water & Wastewater Tech. Conf.: Fax this form to 866-521-3591 or Mail to ISAWWA, 545 S. Randall Rd., St. Charles, IL 60174

- | | |
|--|---|
| <input type="checkbox"/> Attendee OR Additional Exhibitor - ISAWWA or CSWEA member - \$50.00 | <input type="checkbox"/> Table top registration - ISAWWA or CSWEA member - \$100.00 |
| <input type="checkbox"/> Attendee OR Additional Exhibitor - non member - \$75.00 | <input type="checkbox"/> Table top registration - non member - \$125.00 |

Name(s): _____

Company/Utility: _____

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City/State/Zip: _____

Phone: _____ ISAWWA/CSWEA Mem. # (if applicable): _____

Email (for billing): _____ Email (to send certificate): _____

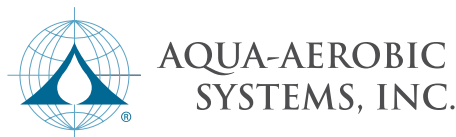
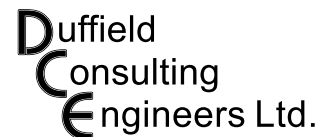
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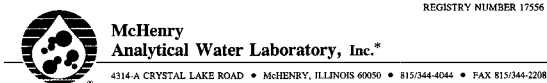
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Bike & Breakfast



at WATERCON 2012

6:30am, Wednesday, March 21, 2012

EVENT The 2nd annual bike & breakfast group is now forming for WATERCON 2012. If you will be attending WATERCON 2012, and would like to participate in this event, please let us know by completing the attached form. All skill levels are encouraged to attend. The rides are generally less than 15 miles, and will last approximately 1.5 hours depending on the overall speed of the group. Following the bike trip, participants are encouraged to go to the Crowne Plaza Hotel café for breakfast, and a meet-and-greet.

COST The event is free provided that each participant provides their own bicycle, and pays for their breakfast.

BIKE RENTAL If you are unable to transport your own bicycle to the conference, local bike rental is available. If you require a bike rental, please include that information in the form below. The cost for bike rental is approximately \$30/day. Participants will be able to pick up rented bikes at the Crowne Plaza registration desk.

UPDATES You will be provided updates at www.isawwa.org as we approach the annual conference to highlight where participants can rent bicycles, the route will be posted, and to alert you to any other changes to bike rental.

MEETING LOCATION & TIME We will meet in the lobby of the Crowne Plaza Hotel and Conference Center in Springfield, IL at 6:30 am on Wednesday, March 21, 2012.

.....
WATERCON 2012 Bike & Breakfast RESERVATION FORM

Fax this form to 866-521-3591 or mail to ISAWWA, 545 S. Randall Rd., St. Charles, IL 60174

PLEASE SELECT: I'm a maybe I plan to rent a bike
 I plan to ride I plan to have breakfast

Name(s): _____

Company/Utility: _____

Mailing Address: _____

WATERCON 2012 BICYCLE RIDE EVENT RELEASE FORM

By signing this attendance sheet or otherwise participating in this event, I hereby for myself, my heirs and administrators assume any and all risks which might be associated with my participation in this event. I waive and release any and all right and claims for damages which I may have against the Illinois Section American Water Works, Illinois Water Environment, its officers and members, and any other persons connected with this event, their sponsors, representatives, successors, and assigns for any and all injuries or damages of any kind and whatsoever suffered by me as a result of taking part in this event and any related activities. I hereby for myself, my heirs and administrators, agree to indemnify and save and hold harmless the releasees and each of them from any loss, liability, damage, or cost they may occur due to my presence or participation in the event and whether caused by the negligence of the releasees or otherwise.

Signed: _____

Printed Name: _____

Date _____

FOR MORE INFORMATION

Contact Lisa: Phone: 866-521-3595x2 | Email: lisa@isawwa.org | Fax: 866-521-3591 | Website: www.isawwa.org

GREETER COMMITTEE

Len Rago, Chair



Wouldn't it be great to get together with your water industry friends, clients and colleagues and break the spell of winter? What better way to do this than by volunteering to be a:

WATERCON 2012 Annual Conference GREETER

The 2012 conference in Springfield runs from Monday, March 19 (registration) through Thursday, March 22; and, by my estimate, we have approximately 25 one-hour Greeter slots to fill. You have always been very generous with your time and it has been appreciated. If you can volunteer for an hour (or 2), it would be greatly appreciated. You will be helping out the conference and having a great time as well.

The Duties and Responsibilities of Greeters are easy and basic as usual:

- Commit to 1 (or 2) hours as the primary Greeter at the Greeter Table at the main entrance, ground floor.
- Smile, be friendly, and offer assistance to those in need.
- Direct folks to the WATERCON 2012 registration desk, display floor, conference rooms, hotel check-in, etc.
- Hand out programs to the pre-registered members (to keep the Registration desk unclogged).
- Have fun with friends old and new.

If you are interested, please send me an e-mail (ragolm@cdmsmith.com) and I will contact you regarding the schedule.

WATER TASTE CONTEST NEEDS COMPETITORS

Nora Bertram, Chair



Does your utility produce the best water in the State? As you may know, the Illinois Section of the American Water Works Association holds a statewide Water Taste Contest every year at our annual conference in Springfield. The 2012 Annual Conference is just around the corner, and the Water Taste Contest Committee is looking for competitors.

If you believe that your utility produces the best water in the State – or want to find out - we would encourage you to speak to your local or regional water operator's association and ask them to hold their own local Water Taste Contest. The winner of the local contest will be invited to compete in Springfield for the chance to gain statewide recognition and plenty of publicity recognizing your dedication to excellence in water production. The winner of the 2012 ISAWWA Water

Taste Contest will be invited to compete in Dallas, Texas, at the 2012 AWWA Annual Conference and Exhibition.

Organizing a local or regional competition is easy; if you or your local operator's association need some advice, please contact the ISAWWA Water Taste Contest Committee representatives at the contact information listed below. Once your local contest is complete and the winner is chosen, please let us know and we will send a formal invitation for the winning utility to compete in our annual ISAWWA Water Taste contest. Hope to see you in March, and happy tasting!

Contact either: Nora Bertram at 312-236-9147, email: nbertram@abh-donohue.com, with any questions or to report a winner.

Section 1: Member Information

Name _____
 Title _____
 Company or Organization _____
 Mailing Address _____
 City _____ State/Province _____
 ZIP/Postal Code _____ Country _____
 Work Phone _____ Fax _____
 Home Phone _____
 E-mail _____

METHOD OF PAYMENT (Please check your payment option below.)

ANNUAL DUES \$ _____
SECTION ASSESSMENT _____
MULTI-SECTION OPTION† _____
TOTAL DUE \$ _____

Make check payable to AWWA (US currency only, drawn from a US bank).

American Express Discover MasterCard VISA
 Card No. _____
 Exp. Date _____
 No action can be taken on this application until payment is received.

Complete application and mail to: AWWA Customer Service, 6666 West Quincy Avenue, Denver, CO 80235-3098. **Fax to:** 303.347.0804. **Online:** www.awwa.org/join
Phone: 1.800.926.7337 or 303.794.7711.

Were you referred by an AWWA member? Yes No Referring Member _____ Member # (if known) _____

Section 2: AWWA Dues and Assessments—Prices are stated in US currency (USD)

ANNUAL DUES:

Individual—\$170 Grade 02	Student—\$28* Grade 14
Operations/ Administrative—\$70 Grade 06 (US, Canada, & Mexico only) Will not receive Journal AWWA.	*Student members and members with APO/FPO addresses will receive e-periodicals only. Print periodicals may be purchased for an additional fee.
Young Professional—\$99	

SECTION ASSESSMENT: AWWA has 43 local sections. Your section is determined by your address. Some sections require additional annual fees to better serve their local members. Section assessments are mandatory for applicants with addresses as shown:

YOUR STATE/PROVINCE	INDIVIDUAL	OPERATIONS/ ADMINISTRATIVE
Alaska, Connecticut, Minnesota, Missouri, Ontario	\$9.....	\$4
Alberta, Arizona, Illinois, Kentucky, Manitoba, Northwest Territories, Saskatchewan, Tennessee, Texas, Wisconsin	\$17.....	\$7
Alabama, Arkansas, Idaho, Louisiana, Mississippi, New Jersey, New York, Oklahoma, Oregon, Utah, Washington	\$26.....	\$11
Pennsylvania.....	\$26.....	\$5
Florida, Georgia, Indiana, Iowa, South Carolina.....	\$34.....	\$14
California, Maine, Massachusetts, Nevada, New Hampshire, Rhode Island, Vermont.....	\$68.....	\$28

Section 3: Circulation Information All applicants must complete this section.

What one business activity best describes your company?
(Please check only one)

- A Public Water Supply Utility—Municipally Owned
- B Public Water Supply Utility—Investor Owned
- C Government—Federal, State, Local
- D Consulting Firm
- E Contractor
- F Private Industrial System or Water Wholesaler
- G Manufacturer of Equipment & Supplies (including representatives)
- H Distributor of Equipment & Supplies (including representatives)
- I Educational Institutions (faculty and students), Libraries and other related organizations
- J Fully Retired
- K Research Lab
- L Other, allied to the field (Please specify) _____

What one category best describes your job title?
(Please check only one)

- A Executive (General Manager, Commissioner, Board Member, City Manager, Municipal Supt., Mayor, President, Vice President, Owner, Partner, Director, etc.)
- B Management/Non-Engineering (Division Head, Section Head, Manager, Chief Engineer, Dept. Head, Comptroller, etc.)
- C Design and Engineering /Both Managerial and Non-managerial (Chief Engineer, Civil Engineer, Mechanical Engineer, Elect. Engineer, Environmental Engineer, Planning Manager, Field Engineer, System Designer, etc.)
- D Scientific/Non-managerial (Chemist, Biologist, Biophysicist, Researcher, Analyst, etc.)
- E Purchasing (Purchasing Agent, Procurement Specialist, Buyer, etc.)
- F Operations (Foreman, Operator, Maintenance Crewman, Service Representative, etc.)
- G Marketing & Sales/Non-managerial (Market Analyst, Marketing Representative, Salesperson, Sales Representative, etc.)
- I Professional (Educator, Teacher, etc.)
- Z Other (please specify) _____

CHECK FIELD SERVED: (Please check only one)

- 9 Both Water Supply & Wastewater
- 7 Wastewater Only
- 5 Water Supply Only
- 3 Other

Completion of this information is optional.

AWWA maintains profile data for use in developing additional programs and services to meet the diverse needs of our members.

Birth Year _____
 Race/Ethnic Identification (check one)
 1 American Indian/Alaskan Native
 2 Asian/Pacific-Islander
 3 African American
 4 Hispanic
 5 White (Non-Hispanic)
 6 Other
 Gender (check one)
 F Female M Male

Applicant's Signature _____ Date _____

Section 4: Areas of Interest

What areas of the water and wastewater industry are of current interest to you? Circle all that apply.

- | | | | | |
|-----------------------|---------------------|------------------------------|-----------------------------------|-------------------------|
| Asset Management (AM) | Desalination (DESA) | Management/Leadership (MANA) | Regulatory/Legislative (RL) | Water Reuse (WR) |
| Backflow (BACK) | Design (DES) | Membrane Treatment (MT) | Resources Mngmnt./Planning (WRMP) | Water Treatment (TREA) |
| Conservation (CE) | Distribution (DS) | Operations (OPER) | SCADA/GIS (SG) | Water Quality (WQT) |
| Customer Service (CS) | Ground Water (GW) | Public Info./Relations (PIR) | Security (SECU) | Young Professional (YP) |

† MULTI-SECTION MEMBERSHIP OPTION

In addition to your own section membership, you may also join other AWWA section(s). This allows you to receive information on events and activities from other local sections. If this is of interest to you, call 1.800.926.7337 for multi-section information and fees.

Dues and section assessment rates valid through Dec. 31, 2012. Dues are not deductible as charitable contributions for income tax purposes. Dues may be considered ordinary and necessary business deductions. The following is for USPS periodical mailing requirements only. In some AWWA sections, a portion of the section allotment equal to 50% or more of the domestic subscription rate charged for the section periodical will be allocated toward a subscription to that periodical. Allocation for each publication recipient authorized—Journal AWWA = \$50; Optiflow = \$16. NOTE: Members' phone numbers, fax numbers, and email addresses are protected under AWWA's Privacy Policy.

MEMBERSHIP COMMITTEE

Randy Lusk, Chair



Hello again everyone, I hope everyone's holidays went well and that you got to spend time with friends and family. The new year is upon us. The cold temps and snow are surrounding us each day now, and we still have at least 2 ½ more months of cold weather. . . ouch! I know you will be disappointed if I don't mention some type of sports announcement, so here goes: Hmm, no Bears news; my Cubbies will probably be bad again this year; but I guess we have the Hawks kicking butt again and the reigning basketball MVP leading our Bulls into a championship this year.

Membership Numbers:

When we talk about goals we have two set goals. We have the year goal, which is a hard number and than a retention goal percentage for each month. Retention goal is what percent of members we

kept for an individual month from last year to this year. Our retention goal for each month is 92%. The goal for 2011 was to have 2197 members by Dec 31, 2011 which is a 1% growth. Some unfortunate news is that we did not hit our goal for 2011. We came up a little short, and we ended the year with 2087 members. On a positive note, we gained 200 new members this year, but we did have 297 members who did not renew. If you know someone who didn't renew, please discuss with them the value and why you continue to be a member. We will try to have a 1% growth again for 2012. This means by the end of 2012 we need to have 2108. I know we can do it this year and I am counting on all of you to help us achieve this goal.

Membership Appreciation:

For 2012 we are doing membership appreciation by allowing free webinars to members as a way to say thanks for being a member. This will be for the live webinars and the recorded webinars. I just want to report that this is going over very well and many members have capitalized on this promotion. So once again, I want to thank all of you for your continued support of being a member and all that you do for this organization.

Different Types of Memberships:

This is for all the retiree members. There is a new structure that started in 2012. I am sorry that I was not able to include it in this article. Once I have more info on the subject, I will release a write up about it in the next Splash. If you have questions, please visit the

AWWA website. Sorry and thank you for understanding. [Http://www.awwa.org](http://www.awwa.org) or [Http://www.isawwa.org](http://www.isawwa.org)

Membership Committee:

If you are a member and looking for ways to get involved with ISAWWA please do not hesitate to contact us. There are many communities with which you can get involved. If you're outgoing and want to get involved with membership, please give me a call. I am always looking for people to help promote membership, work our booth at conferences, and use their experiences on why they continue to be a member of ISAWWA to recruit others. We have 7 different conferences we will be attending this year. If you have some free time and want to contribute, we would be most appreciative of some of your time. Don't forget, WATERCON 2012 in Springfield is March 20-23, 2012. Stop by the booth and see what's new for 2012.

Introduce a friend or colleague to AWWA today . . .

You joined AWWA for many great reasons. Now spread those reasons on and help to keep our Section growing strong. Talk up the reasons you joined, and hopefully we will receive new members each month. This Section needs everyone to be involved in recruiting. That's what will keep the ISAWWA strong. Write your name and membership number on top of the application and you will receive credit for the new member. If you need pointers on what to say, please visit www.awwa.org or www.isawwa.org.

Give a warm welcome to our *new*
Illinois Section AWWA members!

{ see page 74 }

OUTREACH COMMITTEE

Kristin Rehg, Chair



ISAWWA REACHES OUT TO FUTURE WATER INDUSTRY LEADERS

High School Students to Attend WATERCON 2012

For the fourth year in a row, ISAWWA will be hosting 40 Springfield-area high school students at WATERCON 2012. The goal is to teach students more about where their water comes from, and foster an interest in future careers in the water industry. This year's high school outreach event will take place on March 21, 2012, from 9:00 am to noon. The students will participate in the Water Investigators Challenge, in which they will perform several laboratory tests on an unknown water sample to identify the source of that sample. The students will also visit the Exhibit Hall to learn about water industry careers and observe hands-on equipment demonstrations.

We are in need of several volunteers to lead the students through the exhibit hall, as well as exhibitors who can provide a hands-on demo for students.

This promises to be a gratifying experience as the students have always been eager to see as much as they can

in the exhibit hall and have enjoyed getting involved in the demonstrations. Please contact Linda Henry to sign up, Linda.Henry@amwater.com.

Facility Tours Engage Students on Many Levels

Another way ISAWWA members have been reaching out to future leaders of our industry is through offering facility tours to students. Greg Swanson, Utilities General Manager for the City of Moline and ISAWWA's District 1 Trustee, recently held a technical tour of Moline's water treatment plant for several students from the University of Illinois. During the tour, Greg provided access to plant operational data and water samples to aid the students in a semester project focusing on disinfection, filtration, and softening requirements to meet the LT2 Surface Water Treatment Rule. Their professor's comments following the tour illustrate just how influential these outreach initiatives can be:

"After studying traditional systems of water treatment in [the classroom], the students felt that visiting the Moline WTP was an eye-opening experience. The tour gave students a good example how water treatment processes are constantly evolving, and how creativity is required to construct better and more efficient WTPs. Overall, it was a Saturday well spent at a place where they have achieved great success in providing quality water to the community."

Please consider opening the doors of your water facilities to schools and community organizations to help them learn more about the vital services that we, as water professionals, provide to our communities every day. Contact Kristin Rehg at krehg@baxterwoodman.com for guidance documents on conducting facility tours and participating in educational activities with students.

Illinois State Science Fair Winners

The students listed below all submitted science projects at their local schools that pertain to potable water. Their projects were picked as winners at the local and regional levels. They then proceeded to the State level where they were judged by a committee of Illinois Section volunteers and, again, selected as winners. They will be presenting their projects at the treatment session that is scheduled for Wednesday morning, March 21, in Springfield.

- Ajay Dugar from Crone Middle School in Naperville: "Which Purification Method Best Reduces Bacterial Growth in Water?"
- Alexander Gasca from Payton College Prep School in Chicago: "Zero Valent Iron Filtration vs. Chlorination"
- Martha Motoyama from Gregory Fischer Middle School in Aurora: "Natural Water Filtering!"
- Katie Schuelke from Walter R. Sundling Junior High School in Palatine: "Filters for Clean Water"



ABOVE: Greg Swanson with U of I students during a tour of the Moline Water Treatment Plant



ABOVE: Students learn about water quality during the Water Investigators Challenge

TEXAS HOLD EM TOURNAMENT

Tuesday, March 20, 2012

9:00 pm, 2nd Floor Lobby

The Illinois Section AWWA and Illinois Water Environment Association are sponsoring a Texas Hold em Tournament to benefit both associations scholarship funds at WATERCON 2012. We are inviting all who are interested to play regardless of your skill level. If you don't know how to play and would like to learn, we will have a player training session at 4:00 pm in the Capital VI room that day to provide you with everything you need to know to have a very enjoyable experience.

THERE IS NO COST TO PLAY!!!

Table sponsorships are being sold to help offset costs and generate proceeds for the scholarships. In addition, Water Well Solutions, Inc. has generously offered to be the event sponsor and provide some tap beer and commemorative glasses for the event. Prizes will be awarded for many of the lucky winners (and first out).

HOW DO I SIGN UP TO PLAY?

Each table sponsor will be given 8 jokers to distribute to anyone they wish. Look for signs in the exhibit booths of the table sponsors and ask for a joker as your entry ticket for the event. We are limited to about 200 people so be sure to get your joker early before they're gone. If you have not received a Joker card, we will also have a sign up list at the registration desk you can add your name to. Players with Joker cards will be given first seating and the players on the sign up sheet will be filling open spots starting at 9:10pm.

You must show up by 9:00 p.m. to play. You will begin the tournament at the sponsors table from whom you received your joker. As the evening progresses tables will be consolidated as necessary to a final championship table. As stated earlier, prizes will be awarded to the 1st, 2nd, 3rd and first out players. The Grand Champion will be presented the 2012 WATERCON 2012 Texas Hold em Trophy.

Don't be bashful about playing; it will be a very friendly and enjoyable experience for rookies and experts alike.



WATER FOUNTAIN TRAILER AVAILABLE FOR 2012 EVENTS

Matt Overeem, Chair



The ISAWWA Water Fountain Trailer is available for use during your local 2012 activities, such as block parties, festivals, open houses, or any other activity where you may need water fountains and faucets for the public. In 2012, the Section will make extra effort to have the trailer more accessible to our southern Illinois members by housing the trailer downstate. Please go to the ISAWWA Section website to check out pictures of the trailer in action or to reserve the water fountain trailer for your activity. Contact Matt Overeem at movereem@mountprospect.org or John Dillon at jdillon@cityofbatavia.net for more information about the trailer and its capabilities or uses.

See page

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for a copy of the

**WATER TRAILER
REQUEST FORM**

ISAWWA NEW MEMBERS LIST: NOVEMBER 2, 2011 - FEBRUARY 9, 2012

Luke Albrecht, Village of Northfield
Marina Arnaldos, Illinois Institute of Technology
Bradley Baldwin, Hach Company
Massimo Bosso, Village of Elwood
Pamela Broviak, City of Geneva
Juan Bustos, Village of Montgomery
Brian Coving, City of Macomb
Damien Di Vittorio, Edwardsville, IL
Shengkun Dong, Urbana, IL
Doug Eisenhauer, Backflow Solutions Inc.
Dan Eisenhauer, Backflow Solutions Inc.
Benjamin, Edwueme, IMO State Ministry of Public Utilities
Enviro-Care, Rockford, IL
Peter Fassett, Fassett Sales
Todd Goble, Village of West Salem
Steve Gore, City of Evanston
Elizabeth Harrison, Village of Lake Zurich
Deron Hawkins, Energy Systems Group
Dave Hemauer, Cady Aquastore Inc.
Thomas Hinde, Air Diffusion Systems
John Hubsy, City of Wheaton
Dan Hughes, United Water
Mark Jacoby, City of Taylorville Water Department
Eric Jordan, Village of Northfield
Robert Keortge, Village West Salem
John Khym, Chicago Water Dept
Paul Lacourciere, BEECO
Fangqiong Ling, University of Illinois
Mark Lipinski, Village of Skokie Water Department

Garrett Litteken, Southern Illinois University-Carbondale
Nate Lowman, New Lenox, IL
James Mattox, Enviro-Care
Jill McClary, Urbana, IL
Joel Mingus, AQUA America
Walker Mobley, Therna-stor/hi-E Dry
Stephen Mullen, Village of Coal Valley
William Nichols, Naperville, IL
Sean O'Dell, Baxter & Woodman
Peter Olson Sr., Wachs Water Services
David Peters, City of Rockford Public Works
Oliver Plunkett, Mokena, IL
Rick Radde, La Grange Park Village
Ted Reyna, West Chicago, IL
Brett Robinson, Village of Buffalo Grove
Ted Roethle, Rockford City Water Division
Justin Ryter, Village of Algonquin
Brandon Schipfer, Village of Northfield
Laura Schroeder, Carol Stream, IL
Chad Smeltzer, Duke's Root Control
Brad Stancampiano, Backflow Solutions Inc.
Robert Tirjer, Village of Lombard Water Department
Mario Tos, Schiller Park Water Department
Courtney Van Voorhis, Envirosience, Inc.
Jon Winterton, Village of Fox River Grove
Ya Zhang, Department of Civil and Environmental Engineering
University of Illinois At Urba
Lang Zhou, Urbana, IL
Andy Zontos, Village Of Brookfield

EDUCATION COMMITTEE

Jeffrey W. Freeman, Northern Vice Chair & Webinar Subcommittee Chair



Greetings from the Education Committee! By now you should have seen our training schedule for the first half of the year. Hopefully you have already participated in some of the training sessions, and/or are signed up for an upcoming one. We continue to offer training in many different formats, so that you can find training sessions that will fit into your busy schedule. For instance, we have programmed or provided access to night classes, home

study programs, programs for aspiring operators, live webinars, online courses and in-person seminars. We also continue to build the Section's library of videos/DVDs and webinars on demand.

Speaking of webinars, we are continuing to see an increase in webinar participants. Our webinars continue to be free for ISAWWA members. The Section has agreed to keep them free through 2012, as well! They are typically scheduled around lunch time in an effort to minimize the disruption to the workday. If you have not already done so, you may want to look into participating in one. After all, you cannot beat the price of admission!

The Education Committee is putting the final touches on the operator's track at WATERCON 2012. The theme for this year's operator's track is *Countdown to Compliance*. Attendees at this track will hear from IEPA staff, operators, and other industry representatives on compliance-related topics. We also are working with the Small Systems Committee to fill out the panel for the *Meet the IEPA Staff* session first thing in the morning on Tuesday.

In addition to programming the operator's track, the Education Committee is working out the details for our booth at WATERCON 2012. Please be sure to stop by our booth and say hi, see what we are up to with our Committee and enter to win a door prize! For all existing Committee members, and all those who have an interest in joining, we will be holding a Committee meeting at WATERCON 2012 on Tuesday, March 20 at 4:00 p.m. Please come and join us for the discussion. We are always looking for new folks who can bring fresh ideas to the Committee.

Even if you are not on the Committee, we are always looking for training session ideas. If you are interested in presenting a topic, or there is a topic that you would really like to learn about, please contact Lisa Hoffhines and let her know your thoughts. Lisa's e-mail address is lisa@isawwa.org. Please recall the many different formats of our education program: We can program one hour webinars, three to five hour in-person seminars and multi-week classes.

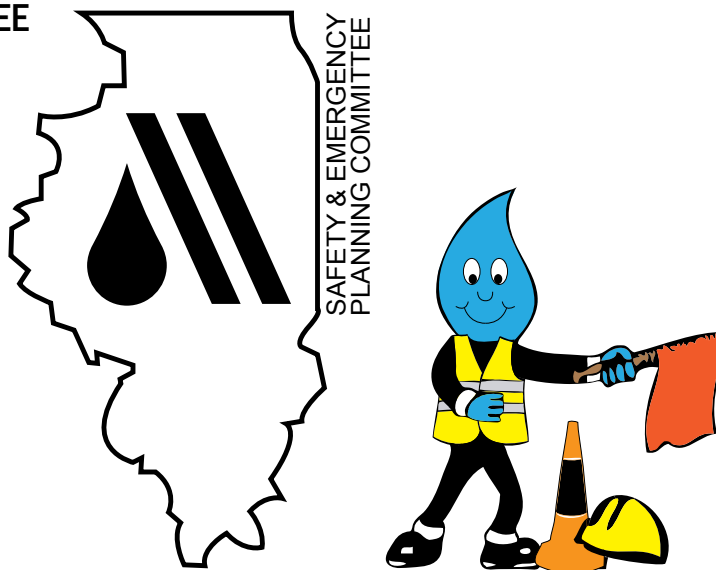
SAFETY & EMERGENCY PLANNING COMMITTEE

Carolyn Grieves, Chair

Take a Spin at the Safety Wheel!

It's back by popular demand! The Safety Committee is announcing the return of the Safety Wheel at WATERCON 2012. Answer a safety question right and get a prize. Answer a safety question wrong . . . and get a prize! Test your luck and take your chance for a Million Dollar spin! Look for us on Tuesday, March 20, located on the main floor Exhibit Hall in the 800 aisle.

Prizes donated by Safety Supply Illinois



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FINAL JEOPARDY FOR ILLINOIS SECTION TOP OPS

Larry Thomas, Chair



The Illinois Section Top Ops competition is going rogue. We decided it's time to make a change and break away from the rules used by the Association. In the past, winning the contest depended on quick reflexes and the ability to hit a button faster than the other team. Knowing water was secondary. We've come to the conclusion that those of us from Illinois are a little on the slow side, so it was time to change the rules and make water knowledge more important than speed. This year in Springfield we are going to experiment with a "Final Jeopardy" style competition with each team presenting their answers on white boards after the question is fully read.

Top Ops is a contest between teams of water treatment operators. Questions asked of the contestants will encompass all aspects of water supply, treatment, and distribution and will be comparable to those on the water operator certification exam. A moderator will pose a variety of multiple choice questions to the panel of team, each of which will attempt to respond correctly. Each team that presents a correct answer will score points.

Teams can consist of one, two, or three operators. The operators do not have to be from the same utility. In order to

complete in Springfield, operators do not even need to be a member of AWWA. Team members are required to work full time as a water treatment plant employee, a water distribution system employee, or in a first-line supervisor capacity. They must also possess a valid operator, laboratory, or distribution certificate. Engineers, upper-level supervisors, etc., who do not work as a day-to-day operator are precluded from participating as an official team. ("Spring training" teams are allowed in some circumstances, but those teams are not officially entered and are not allowed to win.)

The basic ISAWWA Top Ops rules for this year include:

1. There will be a panel of three judges to rule in the event an answer needs interpretation for accuracy.
2. The rules for advancement from the preliminary rounds will depend on the number of teams in the competition.

Teams will be advised of the rules before the preliminary round begins.

3. Each round will consist of 20 to 30 questions with 5 tiebreaker questions.

4. Each team will be given a white board and marker with which to write their answers.

5. The questions will be read in their entirety. Each team will then have 20 seconds to respond by writing on their board. Spelling does not count, but the judges must be able to figure out what is written.

6. Correct answers will be given 2 points.

7. No answer, no points.

8. Incorrect answer, one point will be deducted from the score.

9. Each team will be awarded points based on their answers so long as they respond within the 20 seconds (i.e., for each question, each team will get 2 points if each of them has the correct answer.)

10. The team with the most points at the end of each round wins that round.



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METER MADNESS COMPETITION

Bruce Vaickus, Chair



As I write this in January, there hasn't been much of a winter. I'm sure by the time you're reading it Old Man Winter will have come knocking on the door, and all the activities you had planned will have come to a grinding halt. Since you are inside, what better way to occupy your time than to start practicing your meter assembly skills! That's right, Meter Madness is in March, and it is time to fine tune those skills. You and your friends can compete for bragging rights and a chance to compete at the national competition in Dallas, Texas, in June.

Contestants, both old and new, please join us in Springfield for the competition.

You can order a practice meter from www.muellersystemsmetermadness.com. The practice meter will be sent to you by Mueller Meters. Entry forms are located in this issue of SPLASH or go to the ISAWWA website, www.isawwa.org, and click on WATERCON 2012 >Contest > Meter Madness. Fax your entry forms to 815-467-0854. If you have any questions, please contact me at 815-467-8320 or email me at bvaickus@channahon.org. You may also contact Craig McDonald at 815-877-1421 or email him at craigmcdonald@loves-park.il.us.

Come and join the fun!

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To Illinois Section AWWA members

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Register for LIVE WEBINARS or WEBINAR-ON-DEMAND at

www.isawwa.org

WATERCON 2012 Please use "X" for selections.	Member	Non-Member	Meals				
	ISAWWA or IWEA Members		Mon. IWEA Lunch	Tues. Box Lunch	Wed. Fuller or Exhibit Hall Lunch	Thurs. Awards Breakfast	
Full Conference Monday—Thursday							
With Meals (except IWEA Banquet)	___\$270	___\$295	X	X	X	X	\$
Without Meals	___\$245	___\$270					\$
Retiree Registration*	FREE		X	X	X	X	No Charge
Operator Registration Tuesday Only							
Must be a Water or WW Operator with lunch	___\$70	___\$70		X			\$
One Day Registration							
Includes one meal—please select day	___\$120	___\$145	()	()	()	()	
Guest Registration							
Not employed in water/wastewater industry	<input type="checkbox"/> ___\$35	___\$35					\$
Full time Student Registration							
Full conference—includes meals	___\$120		X	X	X	X	\$
One day—Includes one meal (please make meal selection to right with X)	___\$70		()	()	()	()	\$
Additional Meal and Banquet Tickets							
Monday IWEA Lunch	___\$25	___\$25					\$
Monday IWEA Banquet (not included with any registration option above)	___\$65	___\$65					\$
Tuesday Box Lunch	___\$10	___\$10		X			\$
Wednesday Lunch	___\$25	___\$25			X		\$
Thursday Awards / New Officer Breakfast	___\$20	___\$20				X	\$
AWWA Student Membership (full time)	___\$28						
AWWA Individual Membership	___\$187						
AWWA Operations/Administrative Membership	___\$77						
AWWA Young Professional Membership	___\$116						
IWEA Affiliate Membership	___\$15						
First time attendee? ___Yes ___No Young Professional (35 years of age or under or new to the industry < 10 years?) ___Yes ___No Please mail my registration badge to the address below _____ or I would like to pick up my nametag onsite _____ Illinois AWWA Member # _____ IWEA Member # _____							\$
Name: _____ Title: _____ Employer: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Fax: _____ E-Mail: _____ Credit Card Information: ___Visa ___MasterCard ___AMEX ___Approved Purchase Order Name on Card: _____ Card Number: _____ Exp. Date: _____ Approved Purchase Order # _____ * fully retired—not currently working or seeking work—company name will be shown as "retired"							\$ _____ TOTAL ___ Check enclosed Mail registration to: ISAWWA 545 S. Randall Road St. Charles, IL 60174 Fax registration to: 866-521-3591 Register online: www.isawwa.org

CALLING ALL WATERMAIN TAPPERS!

Tony Cuzzone, Chair



You could be part of this exciting competition. A chance in a lifetime to travel to Springfield, Illinois, compete with your colleagues, have your picture and name in the media, and win a chance to move on to the National Competition in Dallas, Texas. Learn to compete as a TEAM, and have a great time doing it. It doesn't get any better than this!!!

Teams are forming right now. The ISAWWA will pay for a team's hotel room(s) for one night in Springfield at a designated rate, and if you win the opportunity to move on to the National Competition, will pay up to \$6,000.00 for your team's expenses. The 2012

National Competition will be in Dallas, Texas at the Dallas Convention Center.

This year's ISAWWA Tapping Contest is Wednesday, March 21st in Springfield, Illinois at the Crowne Plaza Hotel & Conference Center.

If you are interested in forming a team or would like to be a member of a team, contact Tony Cuzzone at (630) 530-6456, or e-mail me at Tony.cuzzone@elmhurst.org. If you would like to volunteer to help judge the event or assist with set-up, please contact Tony. Contact Michelle Hoepner from Midwest Water Group, Inc. at 866-526-6558 if you would like to be a member of a Women's team!



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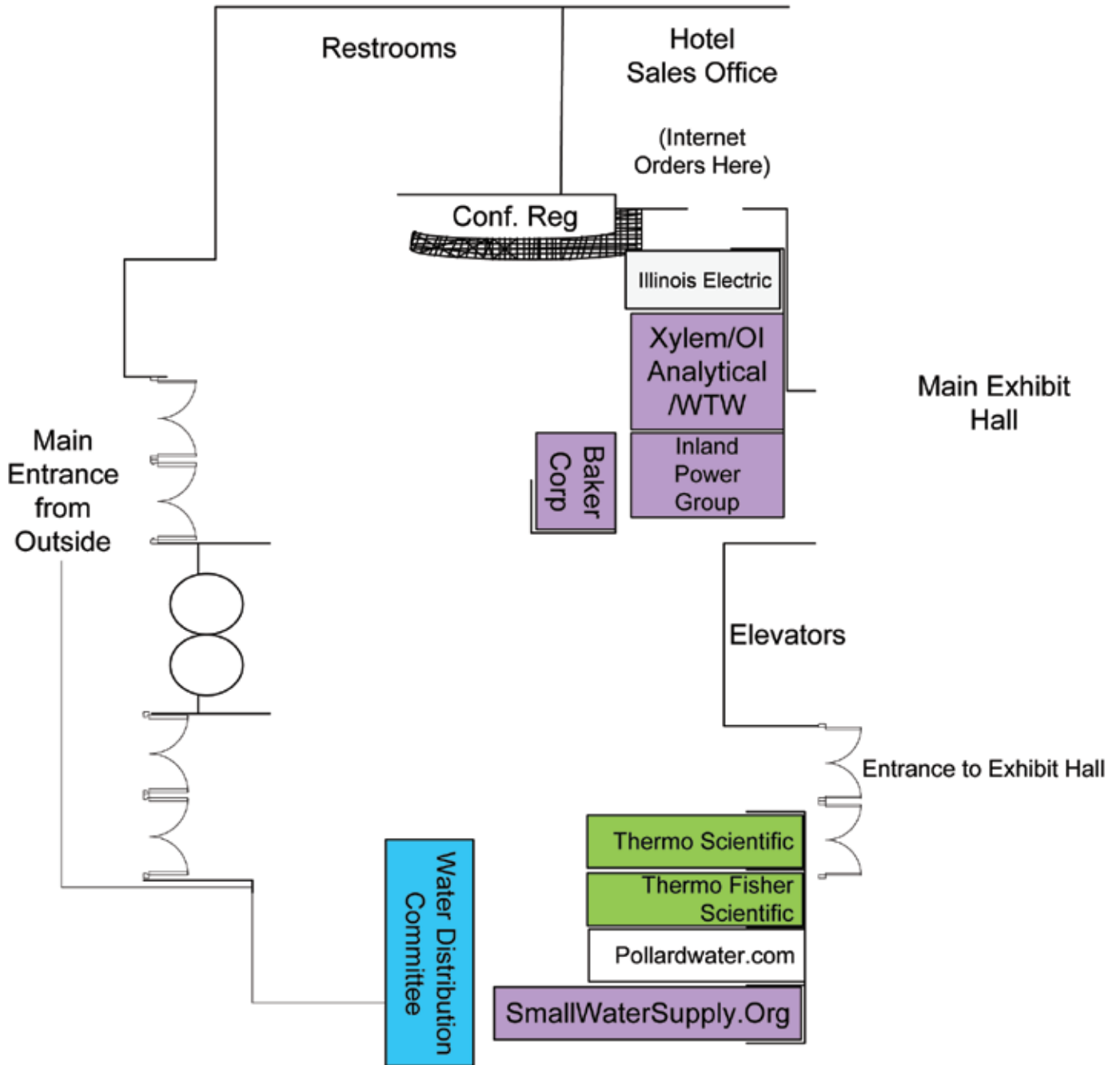


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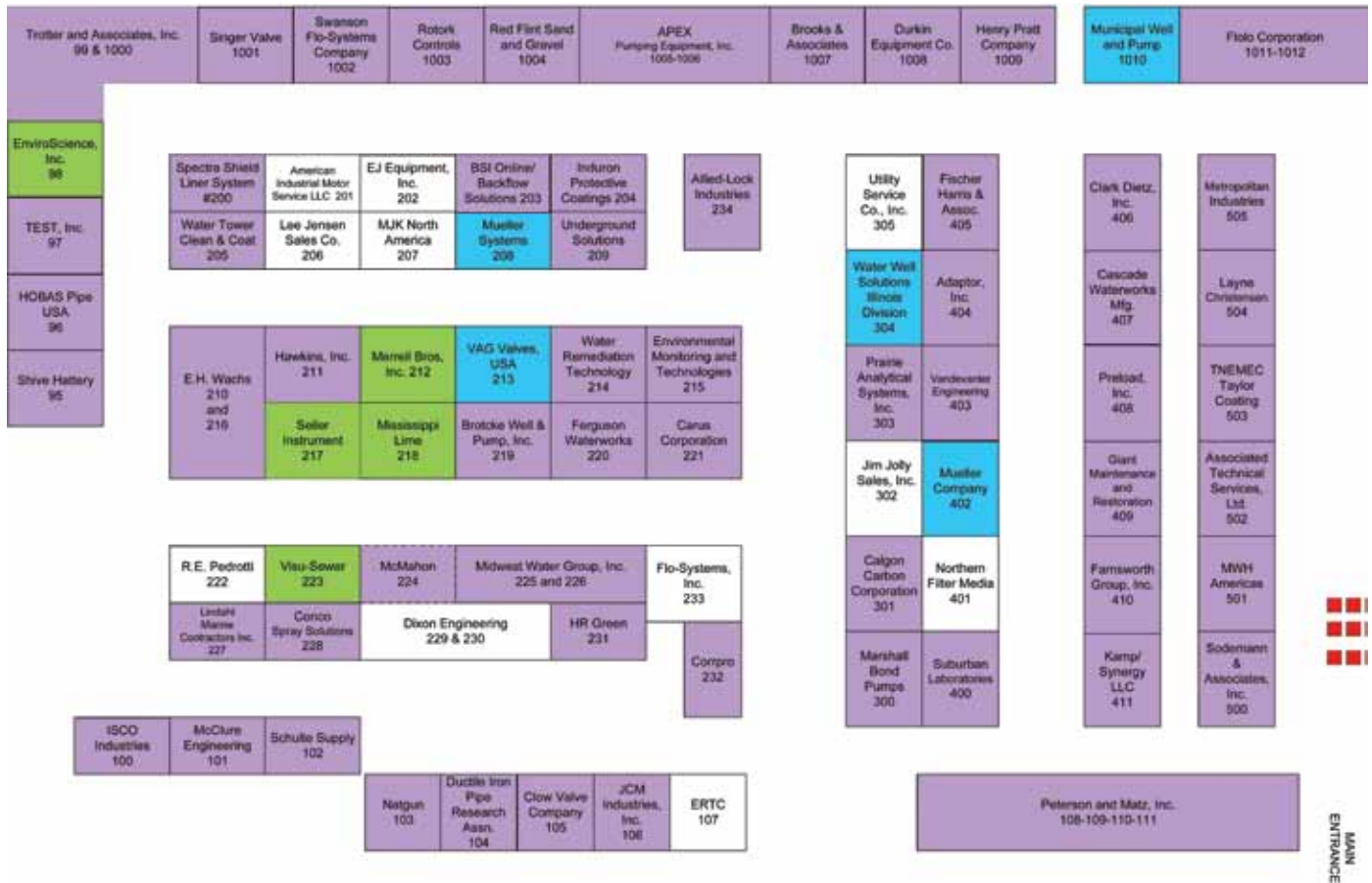
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See page
55
for the
**TAPPING CONTEST
ENTRY FORM**

WATERCON 2012 EXHIBIT LAYOUT: FIRST FLOOR LOBBY



WATERCON 2012 EXHIBIT LAYOUT: MAIN FLOOR EXHIBIT HALL



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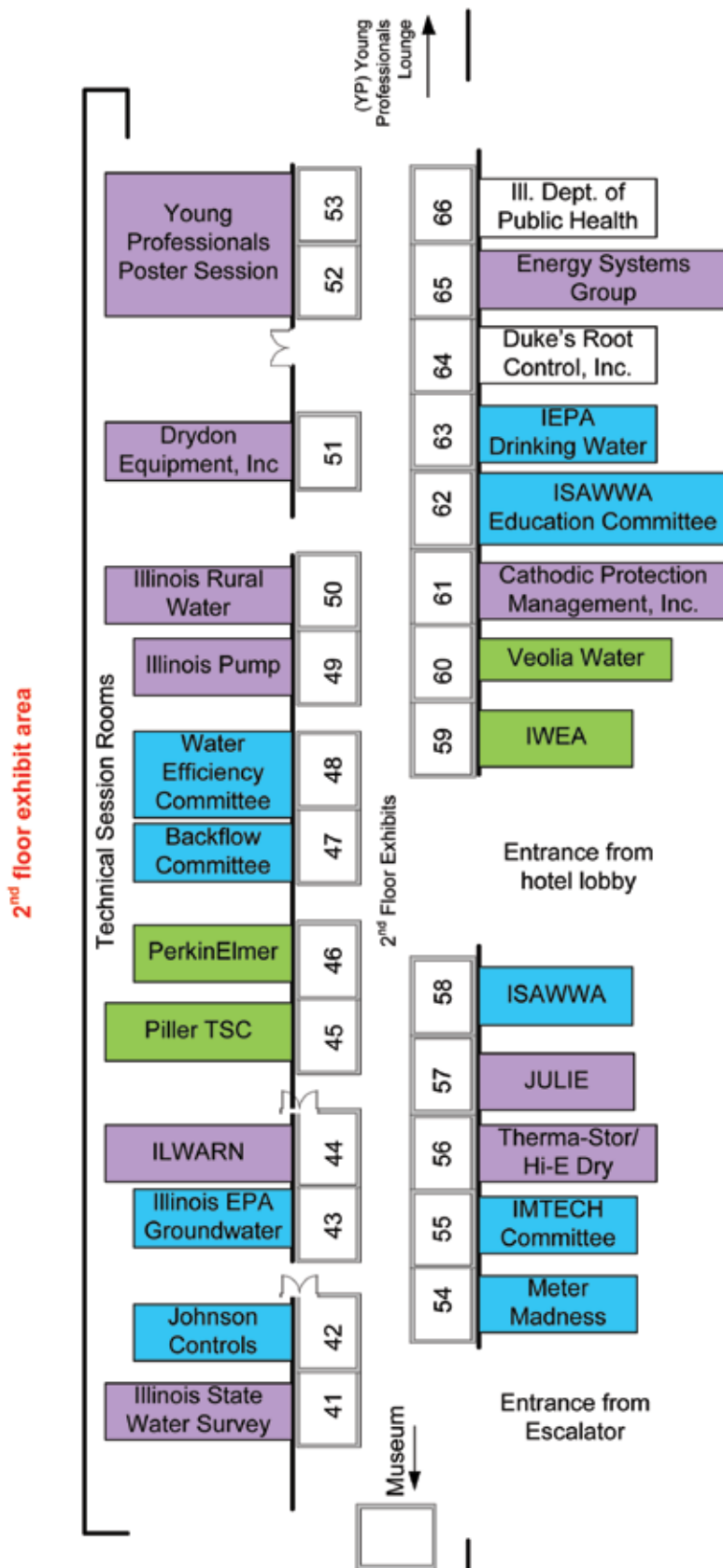
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WATERCON 2012 EXHIBIT LAYOUT: SECOND FLOOR LOBBY



WATERWORKS MUSEUM

Laura Alley, Chair



Remember when water mains were made of wood? Remember when blueprints were actually blue? Come and take a step back into the past. The Waterworks Museum is returning to WATERCON 2012. Located on the second floor, the museum will once again display intriguing and fascinating artifacts from years past.

The success of the museum depends on YOU. We are still looking for artifacts to display. Look around your office or plant and you might be surprised at what you find. All interesting water and wastewater artifacts are welcome no matter how old they are. Your items will be on display Tuesday, March 20,

from 10:00 a.m. to 5:00 p.m. and Wednesday, March 21, from 9:00 a.m. to 3:00 p.m. All items must be picked up by 4:00 p.m.

We are always looking for volunteers to staff the museum. If you could spare an hour during the conference, it would be greatly appreciated.

Please let me know what you will be bringing or if you would like to volunteer by giving me a call or shooting me a quick email.

Laura Alley
630-739-8824
Laura.alley@amwater.com



**Display an artifact
or volunteer to
help monitor the**

WATERWORKS MUSEUM

**Tuesday, March 20 &
Wednesday, March 21, 2012**

INQUIRIES:

LAURA ALLEY
laura.alley@amwater.com
630-739-8824

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Adaptor, Inc.....	404	Energy Systems Group.....	65
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New Products Demonstration	Paul Schumi	630-485-9870	pschumi@wachsws.com
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