

LETTER FROM THE CHAIR *By Stephen Blankenship*

“Do AC, Fast Excitement & Non-Stop Activities”

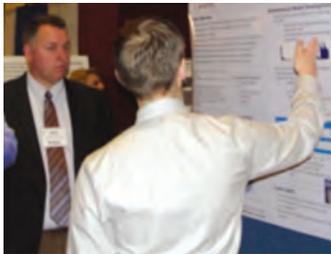
As one of Atlantic City’s new tourism slogans, I think it accurately reflects the 77th Annual AWWA NJ Conference. Charlie Anderson, AWWA President-Elect and the AWWA representative for the conference, repeatedly mentioned the high quality of the conference presentations and exhibits. I especially enjoyed the “*voice from OZ*” – it appears Stacy Fysz has found another calling! So, special thanks once again to the Conference, Technical Program, Manufacturers & Associates and Registration Committees.



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Ten Teams of New Jersey College Students Compete for Research Poster Contest Prizes *ByCarolynn Zebrowski*

AWWA NJ’s College Research Poster Competition was held on Wednesday, March 21 at the Annual Conference in Atlantic City. The competition was fierce, as eight groups of undergraduate students and two graduate students from colleges and universities throughout the State came prepared to discuss their topics relating to safe water for cash prizes.

[MORE](#)



The Water Matters! Fly-In *By Stephen Blankenship*

I, along with Carol Storms, had the opportunity to represent the NJ Section of AWWA at the second joint meeting of AWWA/WEF for a *Water Matters! Fly-In*.

[MORE](#)



Water For People is Reaching Everyone

Water For People was front and center at this year’s Annual AWWA NJ conference held in Atlantic City in March with a new commitment and booth backdrop. On Tuesday, March 20, 2012, the AWWA NJ Water For People Committee unveiled its new booth backdrop with the “Everyone Forever” commitment.

[MORE](#)

UPCOMING EVENTS

AWWA NJ ANNUAL FALL MEETING & GOLF OUTING

Thursday, September 27, 2012
Knob Hill Golf Club
Manapalan, NJ



Have an Idea for Research?

Let us know and we will help get it to the Water Research Foundation. Just fill out this short form and e-mail it to the section manager, mona@njawwa.org. A member of the Research and Technical Transfer Committee will contact you for more details.

Name _____

Name _____

Phone Number _____

Phone Number _____

E-mail Address _____

E-mail Address _____

Issue/Research Idea

Issue/Research Idea

May someone from the Research and Technical Transfer Committee contact you? Yes No

May someone from the Research and Technical Transfer Committee contact you? Yes No

SUBMIT

SUBMIT

Letter from the Chair *(continued from page 1)*

“Circle of Life”

To borrow a Disney phrase, while we are looking back at the annual conference, work has already begun on the coming year’s slate of activities. I’m looking forward to serving as the Section’s Chair over the next year, but will be relying on the Board of Trustees (which welcomed two new members, Mike Furrey and Kevin Watsey), the Section Manager, Mona Cavalcoli, and the Section committees to ensure another great year. One of the things you learn early on is that you can’t do it all by yourself. It really does take a whole Section.

“Asset Management”

During the conference, this was a big topic of discussion and NJDEP dedicated a few of their slots to the topic. As a Section, it is important that we hear the message and invest in our own assets. What are those assets? They are you! We are utility members, operators, students, academics, consultants, manufacturers and vendors. This year I hope that the Section will be able to strengthen and renew its commitment to our human assets. To do this, the Section needs your help in supporting the new ad hoc committee for Young Professionals (created at the request of the Section YPs) and to get out the word on the Section’s revamped scholarship opportunities. The Section now offers three \$2,500 scholarships annually.

Over the last year, the Section created an ad hoc committee on asset management. Laura Cummings took on the role as Chair and facilitated meetings with NJDEP and other organizations in an attempt to develop a comprehensive strategy on this issue. During the coming year, you will start to see some of the results from the committee as it rolls out a few seminars – so stay tuned!

“Give a Little, Get a Lot”

In business, you hear people speak of ROI, return on investment, when discussing an investment in a new piece of equipment or training. If you really want at high levels of return, invest your time volunteering in AWWA and the NJ Section. Since getting involved, I am continually amazed at all the benefits I receive, and I’m not talking about the Journal or Opflow. I’ve been able to develop professional relationships, learn about things going on in our industry, travel to different places and last but not least make new friends.

AWWA, through the Section, offers many opportunities for members to learn about the organization by participating in summer workshops, regional meetings of section officers (RMSO), YP seminars and membership seminars just to name a few. The information provided at these venues helps the Section better understand its mission, grow its membership and deliver benefits to its members. Participation in these events not only helps the Section, but indirectly provides employee training that will allow you to facilitate similar issue at your place of work. So don’t wait for somebody to ask you to get involved, take the first step and volunteer. Find out what your ROI will be!

Stay tuned, AWWA has an exciting year planned for you!

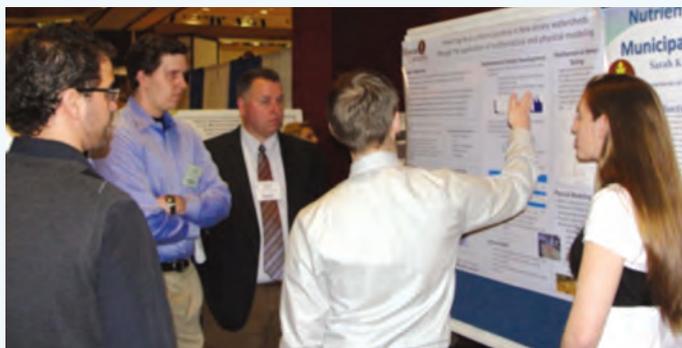
Stephen Blankenship is the Executive Director of the Hamilton Township MUA, Director of Public Works for the Township of Hamilton, President of the South Jersey Water Professionals Association and the Chair of the NJ Section.

Ten Teams of New Jersey College Students Compete for Research Poster Contest Prizes

By Carolynn Zebrowski

(continued from page 1)

The students enthusiastically presented their research and answered questions from water industry professionals, including our three guest judges: Jordan Spitzer-London, Water Quality Specialist from New Jersey American Water, Brian Carr, Senior Project Engineer from Middlesex Water Company, and Brian Weir, Operations Supervisor at New Jersey American Water.



Lorin Nickle and Samantha Valentine from Rowan University present their research on predicting Fecal Coliform in NJ Watersheds to the judges.

Each judge scored the presentations for technical content, applicability to the field of safe water, and presentation/poster creativity. The undergraduate competition was a close race, with the first and second place average scores differing by only 0.33 points. The first place undergraduate team was the engineering team of Alexander Chopyk, Charead Alano, David Tulchinsky, Ryan Purdom, and Thomas Merichko from Rutgers University that presented their research entitled “Green Water: Design and Build a Portable Water Filtration, Purification and Desalination Unit Utilizing Solar Energy.” Second place was awarded to Anthony Brown from Rutgers University Engineers without Borders, with an update on the “Kolonje Water Supply Project” in Kenya. The third place prize was awarded to Sarah K. Bauer and Andrea R. McFarland from Rowan University, for their research on “Nutrient Removal by Microalgae from Municipal Wastewater Treatment Plants.”

Because the competition was so close, two teams received Honorable Mention prizes. The team of Patrick Doyle, Timothy Coccozza, Shannon



Paul Rodriguez from New Jersey Institute of Technology discusses his project on Biosand Filters in Haiti with the judges.

Syciarz, and Edward Kozic from The College of New Jersey received Honorable Mention for presenting their topic “TCNJ Green Lane Athletic Fields Flood Study.” Amanda Hess, also from The College of New Jersey, received Honorable Mention for her research on the “Regional Calibration of the Peak Flow Coefficient for the NRCS Dimensionless Unit Hydrograph Equation for the State of New Jersey.

The graduate student competition provided an opportunity to view the in depth research being performed by students at the graduate and doctoral level. Aliasghar Ghadimkhani, a PhD student from the New Jersey Institute of Technology, took home the first place prize for his research on the “Application of Ozone and Air Nano Bubbles with Ceramic Membranes in Water Treatment.” The second place prize was awarded to Paul Rodriguez from the New Jersey Institute of Technology Engineers without Borders for presenting on their “Biosand Filter Project in Milot, Haiti.” Paul is also a member of the NJIT student chapter of AWWA.

The Poster Competition was coordinated and organized by members of the Student Affairs Committee. Students were encouraged to attend the technical sessions and the social events at the conference to gain some insight to what the water industry has to offer, and make valuable networking connections to enhance their future career prospects.

Carolynn Zebrowski is an engineer at Hatch Mott MacDonald and chair of the Student Affairs Committee.

NJ Section 2012 Dedication Award

By Andrea G McElroy

Carol Broccoli was the recipient of this year’s Dedication Award, an award that recognizes a member that has exhibited exceptional and extraordinary service to the Section. Carol has been an active member of the Education and Professional Development Committee (EPDC) and the New Jersey Section of AWWA for several years. She truly exemplifies an active member as she attends almost every meeting and is always the first to volunteer whenever there is a need. In addition, we can thank Carol for taking the lead each year and organizing the Licensed Water Operator Review Course on behalf of AWWA and NJAES Office of Continuing Professional

Education. Carol works at the Rutgers NJAES Office of Continuing Professional Education where she gives one-hundred percent and has perfected the art of separating the goals of the two organizations. She is truly an asset to the EPDC and the New Jersey Section of AWWA.

Carol – Thank you for your years of dedication and continued enthusiasm!

*Andrea G McElroy is a Senior Chemist at Passaic Valley Water Commission
Carolynn Zebrowski is an engineer at Hatch Mott MacDonald and chair of the Student Affairs Committee.*

United Water Receives Five Governor's Safety Awards *By Jane Kunka*

United Water was recently recognized for no lost time accidents for calendar year 2011 by the Governor's Occupational Safety & Health Awards Program, which is jointly sponsored by the New Jersey Department of Labor, the New Jersey State Industrial Safety Committee, and the New Jersey State Safety Council.

Public Safety Awards were presented to United Water Manalapan and United Water Princeton Meadows for achieving the prevention of occupational injuries for two years in a row, and a Citation of Merit was awarded to United Water Toms River for no work-related lost time incidents. The awards were presented to United Water representatives on Wednesday, May 2nd at the 84th Annual Governor's Occupational Safety and Health Awards program and dinner held at the Buttonwood Manor in Matawan, New Jersey. United Water's Mid-Atlantic and Lambertville Operations received Division of Public Safety Awards during the Northern Area dinner on May 24th.

"These are great accomplishments, and I'm proud of the work my teams have done in practicing safety in the workplace and attaining these honors," said Rick Pfeleiderer, Director of Operations. "Safety is one of the highest priorities within our company, and these awards showcase how important training is to achieve top safety performance," he added.

Patrick Delaney, Central Area vice chair for the New Jersey State Industrial Safety Committee said, "I compliment United Water for receiving multiple awards, which are solid examples of making safety the number one priority in the workplace."

The Governor's Occupational Safety and Health Awards Program is based on the calendar year with Recognition and Group Awards presented to those with a yearly lost time incident rate of 3.0 or less. Citation of Merit, Division of Public Safety & Occupational Safety and Health, Commissioner of Labor and Workforce Development and Governor's Awards are given to those without any work-related lost time from injury or illness over one year to four consecutive years, respectively. Since its inception in 1927, thousands of awards have been earned and the program has played an important role in promoting a safer and healthier workplace.

Jane Kunka is the Public Affairs Manager at United Water Toms River.



Pictured left to right: Theresa Sudnik, Superintendent of United Water Princeton Meadows Wastewater Facility; Jeff Flatt, Supervisor – United Water Toms River; Danielle Steinard, Administrative Assistant, Operations – United Water Toms River; John DeShaw, Lead Operator – United Water Manalapan; and Dorren McNichols, Compliance Specialist – United Water Toms River.

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Ad-hoc Infrastructure Management Committee By Laura Cummings

AWWA NJ's ad hoc Infrastructure Management Committee's (IMC) latest initiative included partnering with the Education and Professional Development Committee (EPDC) at its Chair, Andrea McElroy, to define and promote programs related to effective utility management. In 2011, AWWA NJ's Annual Conference included a pre-conference workshop on the Effective Utility Management Program: A Primer for Water and Wastewater Utilities (<http://www.watereum.org>) (EUM). The EUM is a program that was developed as a collaborative effort between the USEPA and six professional organizations, including AWWA and WEF. One of the goals of the IMC is to promote programs for our members in support of the EUM.

The EUM discusses the Ten Attributes (<http://www.watereum.org/resources/interactive-primer/ten-attributes>) of effectively managed water sector utilities, including:

1. Product Quality
2. Customer Satisfaction
3. Employee and Leadership Development
4. Operational Optimization
5. Financial Viability
6. Infrastructure Stability
7. Operational Resiliency
8. Community Sustainability
9. Water Resource Adequacy
10. Stakeholder Understanding and Support

The EUM also discusses the Five Keys to Management Success (<http://www.watereum.org/resources/interactive-primer/keys-to-success>), or management approaches and systems that are used to successfully achieve the Ten Attributes. The Five Keys to Success are defined as:

1. Leadership
2. Strategic Business Planning
3. Organizational Approaches
4. Measurement
5. Continual Improvement Management Framework

The partnership with the EPDC resulted in the establishment of three seminars that support the EUM scheduled to occur during the Section's 2012-2013 fiscal year. IMC members volunteered as liaisons to assist the EPDC in designing the individual seminars. Attributes supported through these seminars are identified in the following.

Part 1: EUM – Rate Making

July 2012

IMC member liaison Bill Hutchinson, Southeast Morris County Municipal Utilities Authority: This seminar will focus on establishing the rate structure for water systems and will support Attribute No. 5 (Financial Viability). For more information, see the next page.

Part 2: EUM – Cheaper in the Long Run

Tentative date February 2013

IMC member liaison A.J. Capuzzi, Jacobs: This seminar will focus on issues such as asset management and energy efficiency. This seminar will support Attribute No. 4 (Operational Optimization) and Attribute No. 5 (Infrastructure Stability).

Part 3: EUM – Partnership for Safe Water: Distribution System Optimization Program

2013 AWWA NJ Annual Conference, Pre-Conference Workshop <http://www.awwa.org/Resources/PartnershipDistribution.cfm?ItemNumber=51228&navItemNumber=51236>

IMC member liaison Gary Harstead, United Water: This program was modeled after the Partnership Program for Water Treatment Plants and focuses on developing optimization programs for distribution systems in order to improve the water quality and reliability of water supplied to consumers. This seminar will support Attribute No. 4 (Operational Optimization).

If you have any questions related to this article, contact Laura Cummings at lcummings@pvwc.com.

Laura Cummings P.E. is the Plant Superintendent for the Passaic Valley Water Commission and Ad-hoc Infrastructure Management Committee Chair

The 2012 Fresh Ideas Award Winner is Anni Luck! By Dalia Ghobrial

At the 2012 Annual Conference, seventeen young professionals participated in the annual Fresh Ideas competition. Fresh Ideas is a National AWWA initiative in which young professionals (35 and under) receive recognition and a cash award for presenting the best paper at the respective section's Annual Conference.

All of the young professionals presented very well and deserve recognition for their individual efforts in this year's competition. Similar to prior years, due to the high level of participation in this year's Fresh Ideas program, it was extremely competitive. The Fresh Ideas competition was judged by a panel comprised of twelve AWWA NJ members.

After reviewing and totaling all the panelists' score sheets, the 2012 Fresh Ideas winner was determined to be Anni Luck P.E. of Hazen & Sawyer.

Anni was awarded a Fresh Ideas plaque along with a complimentary registration to ACE12. Congratulations to Annie for winning this year's Fresh Ideas competition!

Fresh Ideas is sponsored by the Membership Services committee and the award is presented at the Annual Conference. If you are a young professional that will be presenting at next year's Annual Conference, please check 'Yes' on the Fresh Ideas Box on the Abstract Form. For more information on the Fresh Ideas Program, please contact Dalia Ghobrial at 201-832-4593 or dghobrial@PVWC.com.

Dalia Ghobrial is a Senior Chemist with Passaic Valley Water Commission and the Membership Services Committee Chair.

AWWA NJ Presents: “Part 1: Effective Utility Management-Rate Making” July 17, 2012

Location

The Seminar will be held Tuesday, July 17, 2012 at:
Rutgers EcoComplex
Environmental Research and Extension Center
1200 Florence-Columbus Rd.
Bordentown, NJ 08505
Tel: (609) 499-3600

Who Should Attend?

Superintendents, managers, rate analysts, capital/operations budget planners, operators, municipal or regional government officials, and anyone interested in planning for the future by learning the ins and outs of rate making. Don't miss out!

Registration Fee

\$45.00 per person for AWWA members, \$55.00 for nonmembers, and is free for full-time, university-matriculated students. Registration fee includes continental breakfast, lunch and any handouts or proceedings. Register online at www.njawwa.org.

Part 1 of a 3 Part Seminar Series on Effective Utility Management – Future Topics include: Energy Efficiency and Underground Asset Management. Look out for the advertisements coming soon.

Summary

The Water Industry is facing many costly challenges, infrastructure is aging, ever-changing regulatory climate, and rising costs are compounded by declining consumption which emphasize the importance of rates and ratemaking. Innovative tools and strategies to preserve quality of service, communicate the value of water and approach with regulators are required to achieve a sustainable future. This seminar intends to educate professionals on the importance of accurately and successfully setting rates for long-term viability.

Continuing Education Credits

GET YOUR TCH's as the 3-year period to obtain required TCHs ends September 30, 2012!!

This course is requested to be approved for 5.5 TCH's for water licenses (T, W and VSWS).

AGENDA

8:00 am

Registration And Breakfast (provided)

8:30 am

The Fundamentals: Rate Making 101, Municipal and Regulated – Howard Woods

9:00 am

Regulated Rate Design and Types of Rate Structuring – Tim Michaelson and Jim Cagle, United Water

10:00 am

Break

10:15 am

Refining Capital and Operating Budgets – Earl Schneider, Hatch Mott MacDonald

11:15 am

Communicating to Customers – Rich Henning, United Water

12:00 pm

Lunch (provided)

12:45 pm

Municipal Rate Implementation (Requirement, Method, Objectives) – Robert Koches, Freehold Utilities

1:30 pm

Declining Water Use – Jim Chelius

2:00 pm

Municipal and Regulated: A Comparative Assessment – Steve Blankenship, Hamilton Twp. MUA

2:45 pm

Open Discussions

3:00 pm

Adjourn

The Water Matters! Fly-In By Stephen Blankenship

Washington, DC March 7-8, 2012

(continued from page 1)

So what is a *Fly-In*? The *Fly-In* is a two-day event. On the first day, members receive briefings and participate in discussions of current drinking water issues before Congress and issues that AWWA wants to bring before Congress in the morning. The afternoon of the first day and the following morning are set aside for members to visit their state's Congressional members. Members are provided with *issue packets*, which are utilized in preparing presentations to the members of Congress and/or their staff. A reception is held on the first night for participants and invited guests. The *Fly-In* concludes with a luncheon on the second day to share information and lessons learned from the presentations.

On the AWWA side, the origin of the *Fly-In* was the 2001 AWWA Annual Conference and Exposition, which was held in Washington, DC. AWWA staged a rally on the steps of the U.S. Capitol building and utilized AWWA members to present issues to Congressional members. AWWA received an enthusiastic response and made inroads with its issues before Congress. The association decided to follow up with its first *Fly-In* 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. The *Fly-In* also boosts name recognition among members of Congress and helps to further establish AWWA's water professionals as authoritative sources of knowledge and expertise on drinking water issues.

Recently, AWWA and WEF decided to hold a joint *Fly-In* event in 2011. The issues facing both drinking water and clean water utilities were closely aligned for the 112th Congress. A unified water community greatly increases our influence on Washington and lends greater credibility to our positions. Since the 2011 event went so well and the issue of water and wastewater infrastructure financing is so critical, both organizations decided to hold another joint *Fly-In* for 2012.

This year's *Fly-In* focused on Water Infrastructure Financing Innovation Act (WIFIA) and other infrastructure financing tools. WIFIA was proposed by Ohio Congressman Bob Gibbs, Chair of the House Sub-Committee on Water Resources and Environment. Congressman Gibbs was also the keynote speaker at the morning briefing. The act would create a finance mechanism modeled after the successful Transportation Infrastructure Finance and Innovations Authority (commonly called TIFIA) and provide access to lower-cost capital for investments in water infrastructure. This mechanism would have no or little long-term effect on the federal budget deficit. WIFIA would access funds from the U.S. Treasury at Treasury rates and use those funds to support loans for water-related projects. The benefit to local communities of lower interest rates is significant. Lowering the cost of borrowing by 2.5 percent on a 30-year loan reduces the lifetime project cost by almost 26 percent, the same result as a 26-percent grant. The Act would create a mechanism to:

- Offer loans, loan guarantees, and other credit support for large water infrastructure projects and those with national or regional importance.
- Reduce the cost of leveraging for SRF programs by lending to them directly. A federal water infrastructure finance authority could lend to those SRFs wishing to leverage their capitalization grants at the lowest possible interest rates. This would allow SRFs to make more loans and would increase their ability to offer special assistance to hardship communities if they chose to do so.

The New Jersey delegation was able to meet with members of Congressman Frank LoBiondo's staff, Congressman Robert Andrews and members of his staff and members of Senator Lautenberg's staff to discuss their support and interest in co-sponsoring Congressman Gibb's bill or introducing a similar bill in the Senate. The delegation received a warm reception from all of the offices visited.

To read more about AWWA's recent testimony before Congress on WIFIA and its "*Buried No Longer: Confronting America's Water Infrastructure Challenge*," please reference the following link:

<http://www.awwa.org/Government/content.cfm?ItemNumber=1062>.



Steve Blankenship and Carol Storms pose in front of the Capitol Building during the Washington, DC Fly-In.

Who's On First???

By Alan S. Dillon

The following is an article written for the Association of Boards of Certification periodical in 2001.

It's still relevant today:

With the onset of spring, coaching my 9 year-old son's baseball team requires me to attend a couple of umpire clinics. Questions about rules always arise. For example, "Fly ball to the outfield and the ball is in foul territory. Outfielder is in fair territory and reaches over the foul line. Ball hits his glove and drops to the ground. Fair or foul?" Or "One out, runner on first, fly ball is caught in the outfield. The runner, who is less than halfway to second, is returning to first base. The outfielder, trying to catch the runner, overthrows first base and the ball winds up in the stands. Where does the umpire put the runner?" The nice thing about baseball, though, is that although you can argue about the rules, there is one rulebook for everyone to find the answers.

The other day I was reviewing New Jersey's operator certification regulations. We have four water and four wastewater license classes, 1- 4, with 4 being the highest license class. When I got home, my son asked me what I did at work that day. I told him:

"Is what the operators do important, Dad?" he wanted to know.

"I think so son," I responded. "These guys are the frontline troops at water and wastewater facilities to protect public health and the environment. In New Jersey, there are four classes of license, think baseball, like getting to first base, second base, third base, home plate."

"Is it the same in all the states?" he inquired.

"Well not quite, son," I said, "In some states, they have seven license classes."

"Like having seven bases!?" he exclaimed, "Why would they have seven bases?"

"I don't know," I acknowledged, recognizing my poor analogy.

"So you can have either four bases or seven bases?" he queried.

"There's more," I said, digging myself in deeper. "If you play in some states, the licenses go 4, 3, 2, 1. Kind of like first base is where third base should be and third base is where first base should be."

"So would you have to run backwards?" he wondered.

"They don't think so," I sighed.

He took a look at me. "What else??"

"Well many states do it different," I explained. "In some states they call 1st base - A base, 2nd base - B base, 3rd base - C base and so on."

"Do you have to run frontward or backward?" he looked confused.

"I'm not sure," I replied. I could see he was losing interest quickly. But, he's young and he tried one more time.

"IS THAT IT THEN!?" he demanded.

"It gets more involved," I tried to respond carefully, "In some states they have license classes 1A, 1B, 1C, 2A, 2B, 2C, kind of like putting extra bases between 1st and 2nd base and between 2nd and 3rd base."

"And ya gotta touch them all?" he asked disbelievingly.

"I think so son, but I'm not sure."

"Are you sure the object of the game is the same everywhere!?" he questioned.

"I thought so before," I answered.

"But everyone's got different rules to play the same game. Why can't they all have the same rules, like baseball?" he puzzled.

"I don't know," I admitted.

"Can't be too important," he shrugged losing interest. "Not as important as baseball, anyways." He walked away.

Yesterday, I was reviewing a national continuing education course for operator training. The course provider recommended 40 training contact hours for the course, however, the rationale only provided for 36 training contact hours. So I checked out how other States had approved the course: California - 9 educational points; Georgia - 12 Continuing Education Points; Hawaii, Illinois - 3 CEUs; Indiana, Wyoming - 90 Contact Hours; Kansas - 10 hours of training credit; Kentucky - maximum of 45 Continuing Education Hours; Massachusetts - 18 TCHs; Missouri - 30 hours of renewal training; New York, North Carolina - 40 contact hours; Ohio - 6 months experience credit; Texas - 40 hours general training; Virginia - 4 training credits; Washington - no credit. Same course, different rules. How do I explain this to my son? My mind wandered off to the intricacies of the infield fly rule. Better not go straight home tonight.

I just finished reading *ABC: The First 10 Years, 1972-1982*. The goal of the organization was to promote uniformity of state and provincial certification programs and reciprocity. Kind of like all states and provinces playing by the same rules everywhere. Kind of like baseball. I wonder when we all will think operator certification is important enough to play by the same rules.

P.S. For those who are interested 1) it's a foul ball and 2) the runner goes to third base. Go ahead, you can look that up.

Alan S. Dillon is the Section Chief of Water Supply and Geoscience Division of the NJDEP and a member of the section.

Water For People is Reaching Everyone By Michael Johnson

(continued from page 1)

It is well known that water is essential for health, prosperity, and life and the Everyone Forever commitment that Water For People is encouraging shall work to ensure access for all including the hardest to reach, the poorest and the most isolated. Reaching everyone requires time and investment but will make projects more successful and sustainable in the future. Water for People is making this commitment and is encouraging others to join the Everyone, Forever Commitment. You can join the movement at: <http://www.waterforpeople.org/everyone/>. Water for People can't eliminate water poverty alone. Everyone will form a platform for a collective solution.

Those that visited the Water For People booth got to see the Everyone booth backdrop and similar to last year, attendees collected their conference giveaway at the Water For People booth. Those that visited the booth got the chance to participate in the Drop in the Bucket Auction. As in past years, the AWWA NJ Water For People Committee hosted the annual installment of this very successful fundraiser. Thirty-two (32) prizes were donated by exhibitors and attendees and over 1,000 raffle tickets were purchased during the 3 day conference. This year's list of prizes included heavily sought after items, such as a Playstation 3, Digital reading devices, tickets to sporting events, gift cards, digital cameras and other great prizes. Over \$4,100 was raised for Water For People during the conference! Thank you to everyone who participated, both donors and those who purchased tickets and congratulations to the 32 prize winners!

In addition, the team consisting of Christine Gunsauillus (Mumford-Bjorkman Associates), Pat Cole (Birdsall Services Group), Bill Hahn (Park Ridge), and John Hildabrant (Aqua NJ), winner of the Water Tank Building Contest, donated their \$100 prize money to Water For People. Thank you!



Looking forward, Spring could not wait and has arrived early, this can only mean that summer is just around the corner. Look for our summer fundraising events where you can attend a Trenton Thunder baseball game or run a 5K. Both events are being planned for July. Visit www.njawwa.org for more information.

New website!! Visit our new website at www.waterforpeople.org/nj and find information on all of our upcoming events, photos of past events and more information about Water For People and the committee to satisfy even the most Water For People curious.

Michael Johnson is an Associate at Buck, Seifert & Jost, Inc. and is the Chair of the Water For People Committee.

Upcoming Water For People Events

Please join us for these upcoming events and support Water For People's efforts in providing long-lasting solutions for water and sanitation facilities.

July 20, 2012

Water For People Night at Trenton Thunder, 7:05 pm vs. Reading Phillies, Trenton, NJ

July 28, 2012

4th Annual Run For Water 5K, ½ Mile Fun Run and 50 Yard Toddler Dash, Monmouth Battlefield State Park, Manalapan, New Jersey

September 14, 2012

7th Annual Turning Wine Into Water, Laurita Winery, New Egypt, NJ

The Water For People Committee is always looking for new members to assist with planning events. Please contact Michael Johnson if you are interested in joining the committee.

If you are interested in finding out more about these events, please contact Michael Johnson at msj@bsjinc.com or visit the AWWA NJ Section website at www.njawwa.org.

EPA Honors New Jersey Environmental Leaders By Elizabeth Myer

The U.S. Environmental Protection Agency today announced that it has honored ten individuals and organizations from across New Jersey with Environmental Quality Awards for their achievements in protecting public health and the environment. EPA Regional Administrator Judith A. Enck was joined by Mayor Dana Redd of Camden, New Jersey to present the awards to this year's recipients at a ceremony at EPA's offices in Manhattan.

"Change that will create a healthier and more sustainable future begins with people like those the EPA is honoring today," said Regional Administrator Judith A. Enck. "They give of themselves and set a high bar in their actions to protect public health and the environment."

EPA presents Environmental Quality Awards annually during Earth Week to individuals, businesses, government agencies, environmental and community-based organizations and members of the media in EPA Region 2, which covers New Jersey, New York, Puerto Rico, the U.S. Virgin Islands and eight federally-recognized Indian Nations. The awards recognize significant contributions to improving the environment and public health in the previous calendar year. For information about the Environmental Quality Awards in EPA Region 2, visit <http://www.epa.gov/region02/eqa/>.

The following is a list of the Award Winners:

2012 ENVIRONMENTAL QUALITY AWARD WINNERS

Individual Citizen

Andrew Kricun

As the Executive Director of the Camden County Municipal Utility Authority, Andrew Kricun has improved water quality and promoted sustainability throughout Southern New Jersey for 26 years. During his tenure at Camden County Municipal Utility Authority, water quality performance has improved 40% while residential rates remain unchanged. Mr. Kricun's commitment to local, regional and national environmental quality improvements have paved the way for a more sustainable New Jersey.

Donna Macalle-Holly

As an employee of the Lake Hopatcong Commission, Donna Macalle-Holly works closely with four surrounding towns to implement storm water management projects that reduce the amount of phosphorus entering Lake Hopatcong. Donna worked diligently on the Commission's lake-friendly fertilizer program, developing an educational webpage and creating slogans for signs that were widely distributed in the community. Recently, she worked on an outreach initiative to educate the public on the threat of a new invasive species, the water chestnut. Donna is a regular contributor to local newspapers on the protection of Lake Hopatcong.

Doug O'Malley

Doug O'Malley has been an outstanding advocate for the environment. As Field Director for Environment New Jersey, Doug has been an indefatigable advocate on numerous issues such as climate change and the preservation of open space. Doug has also led efforts to pass comprehensive clean energy and climate legislation in Congress and to fast-track New Jersey's clean energy economy through strong state standards for wind, solar and energy efficiency programs. He has written editorial pieces and has been widely quoted in the press on issues of environmental concern.

Dr. Nicky Sheats

As chair of the New Jersey Environmental Justice Alliance and director of the Center for the Urban Environment at the John S. Watson Institute for Public Policy of the Thomas Edison State College in Trenton, NJ, Dr. Sheats has proven a tireless environmental educator and fighter for environmental justice, both locally and nationally. In recent years, Nicky Sheats has repeatedly stood with low income communities of color throughout New Jersey in their struggles for a clean and healthy environment.

Paul D. "Pete" McLain

Paul D. "Pete" McLain has been a champion of environmental protection for more than 50 years. In his capacity as Deputy Director of the New Jersey Division of Fish, Game and Wildlife, Pete developed the NJ Non-game and Endangered Species Program, the first in the nation. Pete was directly involved in the reintroduction of the peregrine falcon and the revival of osprey populations in New Jersey and has worked tirelessly to spread information on wildlife and environmental issues via newspapers, magazines, radio and the production of films. He founded the Barnegat Bay Student Grant Committee, which provides funding for student research.

Environmental Education

Project Reservoir

Project Reservoir is a multi-year, multi-disciplinary project designed, implemented and maintained by the students of the Christa McAuliffe School, PS #28 in Jersey City, NJ. The project is focused on the students' efforts to help revitalize and transform an abandoned local reservoir into a first class, state recognized recreation and education center. Throughout the project, the team has partnered with the Reservoir Preservation Alliance to identify problems, design innovative solutions and solicit community support for their vision. The students have enjoyed a unique environmental education experience while learning to apply their academic skills to real world scenarios.

Richard Howlett

Richard Howlett is the Executive Director of the New Jersey Water Association, which plays a pivotal role in the training of small-system water and wastewater operators, provides on-site technical assistance for small systems and helps to implement source water protection. Through innovative approaches, Richard organizes and delivers free training to small systems operators. Over 70 training sessions are offered each year, typically with 35-50 attendees at each meeting. At these sessions, water and wastewater operators are trained in navigating the regulations under the Safe Drinking Water and Clean Water Acts.

Non-Profit Organization, Environmental or Community Group

Duke Farms Foundation

Duke Farms Foundation has recently refocused its mission to be a model of environmental stewardship in the 21st century and inspire visitors to become informed stewards of the land. To carry out its new vision, Duke Farms is upgrading a 22,000 square-foot former barn to LEED Platinum standards to serve as an orientation center. This building's electricity is being supplied by a 640-kilowatt solar array and 50 geothermal wells to heat and cool it. In addition, a constructed wetlands system will treat wastewater on-site, and rain gardens and bioswales will handle storm water.

(continued on page 11)

Transition of an Anhydrous Ammonia System to Ammonium Sulfate with Added Benefits

By Mohammed Selimgir, P.E. and Glenn M. Rametta, P.E.

United Water New Jersey's (UWNJ) Haworth Water Treatment Plant utilizes chloramination for disinfection in the distribution system. Both chlorine and ammonia are added to the water and chemically react to form chloramine (also called combined chlorine), a long lasting disinfectant. UWNJ's prior anhydrous ammonia system was recently transitioned over to a liquid ammonium sulfate system in part due to regulatory and safety benefits with the new system.

Safety has been the driving force for UWNJ to convert its anhydrous ammonia system to an alternate system. Anhydrous ammonia poses certain risks identified and addressed by the Toxic Catastrophe Prevention Act (TCPA) program. The use of anhydrous ammonia mandates that a Risk Management Plan be submitted to the NJDEP under the TCPA program which is a significant effort. Ammonium sulfate liquid is the safest form of ammonia. No pressurized vessels are required for its storage. No reporting under the TCPA or DPCC programs is necessary.

A chemical feed system composed of four (4) chemical metering feed pumps, control panels, two (2) storage tanks, fill, and feed lines along with associated instrumentation and controls was utilized for the new ammonium sulfate feed system.

The ammonia dosage was initially established at 1.2 mg/L to maintain the targeted chlorine to ammonia ratio of 3 to 1. During start-up it was determined that a reduced dosage of 1.0 mg/L would be effective to meet the finished water free ammonia target range of 0.2 to 0.5 ppm as well as the monochloramine target range of 2.75 to 3.5 ppm. The ammonium sulfate solution utilized has the formula $(\text{NH}_4)_2\text{SO}_4 + \text{H}_2\text{O}$ and is 10.3% ammonia and 8.4% nitrogen. Therefore, at an annual average 110 MGD plant flow, approximately thirty-six (36) gallons per hour of ammonium sulfate is required at 1.0 mg/L dosage of ammonia.

In order to gain sufficient chemical storage the project included the conversion of the existing two (2), 14,000 gallon each Powdered Activated

Carbon (PAC) tanks for use with ammonium sulfate. The tanks were cleaned, sandblasted, coated, and lined to be able to contain the ammonium sulfate solution. With the new ammonium sulfate system constructed where the previous PAC system was located, the prior anhydrous ammonia system continued to serve until start up and testing of the ammonium sulfate system was completed and after an acceptable shake-out period for the new system.

Since the previous PAC tanks were converted to hold ammonium sulfate, the PAC system needed to be redesigned and located elsewhere on the plant site. An eductor-based PAC system was utilized with two (2), thirty-five (35') foot tall, fourteen (14') foot diameter silos. Site utilities for plant water, PAC slurry, compressed air, electrical power and controls were constructed. A twenty (20') foot by fifty (50') foot by three (3') foot thick concrete pad was constructed supported by forty (40) helical piles to support the two silos and control building.

The storage volume of the two silos is approximately 70,000 pounds of PAC. While the existing feed location into the two Rapid Mix Basins remained unchanged, having the PAC in this new location had the added benefit to allow a much shorter travel route which is beneficial to reduce clogging events in the slurry lines. In addition, the manually intensive work of loading super sacks of PAC was eliminated with the eductor-based system where PAC is loaded via pneumatic bulk carrier.

The project schedule met was aggressive with preliminary and final design and permitting from May through October 2011, bidding and award in November 2011, construction, start-up and training from December 2011 through April 2012.

Mohammed Selimgir, P.E. is a Senior Project Manager with United Water, Oradell, New Jersey and Glenn M. Rametta, P.E., is an Associate with Buck, Seifert, & Jost, Inc., Norwood, New Jersey.

EPA Honors New Jersey Environmental Leaders *(continued from page 10)*

Land Conservancy of New Jersey

The Land Conservancy of New Jersey is a member-supported non-profit land trust whose mission is to preserve land and water resources, conserve open space, and inspire and empower individuals and communities to protect our natural land and environment. The Land Conservancy has preserved a total of 18,595 acres in 310 projects, including 14,507 acres in 245 projects in the New Jersey Highlands. It has worked with 60 municipalities impacting over half of New Jersey's counties and benefiting millions of residents across the state.

Contact: Elizabeth Myer, (212) 637-3860, myer.elizabeth@epa.gov.
Follow EPA Region 2 on Twitter at <http://www.twitter.com/eparegion2>
and visit our Facebook page, <http://www.facebook.com/eparegion2>.

ReClam the Bay, Inc.

ReClam the Bay is a volunteer organization established by the Barnegat Bay Shellfish Restoration Program, whose partners include Rutgers Cooperative Extension, NJ Department of Environmental Protection Bureau of Shellfisheries, Ocean County and the Barnegat Bay Partnership. The group has trained over 120 certified shellfish gardeners, while its volunteers have put about 10.7 million clams and three million oysters in the Barnegat Bay. In 2011, the Barnegat Bay Shellfish Restoration Program taught nearly 9,500 people about the connection between water quality and life in the bay, as well as how to protect and restore the estuary.

Mentoring Program for Licensed Operators *By Mike Furrey*

In April 2012, I joined the AWWA NJ Board as a trustee looking to help get more people involved with the organization. Over the last few years, I have worked with the Student Affairs Committee on reaching out to NJ colleges to garnish some interest in the water business. It is hard to tell if our efforts made a difference, but the experience and the time spent were well worth the effort. I have come to the Board with a desire to expand those efforts by reaching out to area high schools in an effort to attract young people to our business.

As you may or may not know, the business is experiencing a severe shortage of NJDEP Licensed Operators on almost every level. I currently live in Vernon, NJ, and I know that many young people in these tough times don't have much direction. Unfortunately, they feel they have no real opportunity for a future.

This is where you come in. I am writing to you to see if you would be interested in becoming a part of a "mentoring program" designed to reach

out to local high schools. Ultimately, the goal is to spark some interest about careers in the water industry. Your efforts will hopefully make young people more aware of opportunities in the business, with special focus on the licensed operator career path. AWWA NJ and YOU can help them reach that goal.

If you are interested in lending your talent and time to this cause, please reach out to me at mfurrey@agra.us, or pick up the phone and call me at (973) 989-0010 to learn more about this new initiative. I will guarantee you that this will be a rewarding effort and will help promote our great industry.

Mike Furrey is an AWWA NJ Trustee and President of Agra Environmental and Laboratory Services

Bring Your Child to Work Day

By Tim Fortner

April 26th was "Bring your child to work day." AWWA NJ member Tim Fortner, from PSI Process & Equipment/Pumping Services, brought his 6½ year old son, Preston, to work with him. They visited the Somerset-Raritan WWTP and were given a tour of the entire treatment process by Michael Trent. Tim also took Preston around PSI's shop to show him the various pieces of equipment which they sell and repair.

Tim Fortner is a part of the Municipal Sales team at PSI Process & Equipment/Pumping Services

Visiting the Somerset-Raritan Waste Water Treatment Plant



Summary of UCMR3 *By Carol Theresa Storms*

The USEPA published the third Unregulated Contaminant Monitoring Rule (UCMR3) in the Federal Register on May 21, 2012. Below are some highlights of the Final Rule:

Assessment monitoring: There are 27 chemicals, 2 viruses and Total Chromium on List 1 for what is called Assessment monitoring. These are contaminants for which there are established methods. All systems serving >10,000 people are required to monitor for List 1. Surface water and GWUDI must sample 4 consecutive quarters separated by 3 months apart. Ground water systems must sample twice in 12 months – 5 to 7 months apart. An additional set of 800 selected systems serving less than 10,000 will also do List 1 at EPA expense. Metals (Chromium VI and Total Chromium, cobalt, molybdenum, strontium, vanadium) and chlorate are to be tested at each entry point and in the Distribution System MRT. Think Stage 2!

Screening monitoring: All systems serving >100,000 will conduct List 2 or Screening monitoring. These are contaminants for which there are available methods but not widely used or new technologies. Plus, 320 systems serving between 10,000 and 100,000 will also do List 2 and 480 systems serving <10,000 for which EPA will pay the costs.

Laboratory approval: Systems must use laboratories approved by USEPA. Only approved labs can be used for monitoring – same as UCMR2. The approval process is similar to UCMR2 – registration, demonstration of capability, PTs, and onsite audits (possibly) in addition to paper audits. Labs must report results to EPA within 120 days; utilities must approve data within 60 days of reporting by lab. Systems must report ALL data elements with each sample (e.g. include disinfection type, level).

System Deadlines: Large systems must supply their inventory and review their sampling schedules by October 1, 2012. Schedules that need to be changed must be done by October 1, 2012. Systems need to provide contact information and also all the zip codes served by that system (a one-time submittal). If the contact information changes the information must be updated within 30 days.

Carol Theresa Storms is the manager of water quality and wastewater with Aqua New Jersey, Inc.

Stage 2 Operational Evaluation Levels By Felicia Fieo and Carol Theresa Storms

Operational evaluation levels are early warnings for systems with possible MCL violations of Stage 2 MCLs (TTHMs and HAA5s). Early identification allows you to take action and avoid possible MCL violations.

Operational evaluation levels provide an estimate of the fourth quarter's TTHM and HAA5 levels based on data from the first three quarters. Your initial operational evaluation level is required to be calculated after you receive your 3rd set of quarterly data, and each quarter thereafter. However, you can review your current data and any data collected during your Initial Distribution System Evaluation to determine if any areas in your water system have the potential to exceed Locational Running Annual Averages for TTHM and/or HAA5 levels at any time.

How do I calculate my operational evaluation levels? The operational evaluation levels for each monitoring location are determined by the sum of the two previous quarters' TTHM results plus twice the current quarter's TTHM result, at that location, divided by 4 to determine an average and the sum of the two previous quarters' HAA5 results plus twice the current quarter's HAA5 result, at that location, divided by 4 to determine an average. If the average TTHM exceeds 0.080 mg/L at any monitoring location or the average HAA5 exceeds 0.060 mg/L at any monitoring location, you must:

- Conduct an **operational evaluation**, and;
- Submit a written report of the operational evaluation to the State.

What must the operational evaluation include? The operational evaluation includes an examination of system treatment and distribution operational practices, including changes in sources or source water quality, storage tank operations, and excess storage capacity that may contribute to high TTHM and HAA5 formation. You must also identify what steps could be considered to minimize future operational evaluation level exceedances.

When must I submit this report? You must submit your operational evaluation report to the State for review within 90 days after being notified of the analytical result that initiates the operational evaluation. You must keep a copy of the report and make it available to the public upon request. Report any operational evaluation level exceedances that occurred during the quarter to the State within 10 days of the end of the quarter.

A copy of EPA's "Operational Evaluation Guidance Manual" is available at http://www.epa.gov/ogwdw/disinfection/stage2/pdfs/draft_guide_stage_2_operationalevaluation.pdf.

Felicia Fieo is with the New Jersey Department of Environmental Protection.

Once Again, Top Ops Is Tops By Max Huber

This year's Top Ops Operator Bowl was once again a crowd pleasing event. The contest is sponsored and organized annually by the Small Systems and Operators Committee. Top Ops is a game show style competition that quizzes licensed operators on the subjects of water supply, treatment, and distribution. This year's event was hosted by the Small Systems & Operators Committee very own Mike Furrey.

The teams were competing for a berth in the national Top Ops competition held at the AWWA National Convention. Three teams competed in this year's competition: United Water, Passaic Valley Water Commission, and a team comprised of operators from both Aqua New Jersey and United Water. To keep the game on the straight and narrow, the competition was under the watchful eyes of judges Alan Dillon, Jerry Notte and Rich Russo.

All of the teams battled hard and made full use of their lifelines to keep the game close in the early stages. In the end, the team from Passaic Valley

Water Commission was able to pull away and was victorious. The PVWC Team consisted of: Mark Romain, Andrea McElroy and Wendy Simone. These operators put on an impressive display of knowledge.

The Small Systems Committee would like to congratulate all of the teams that participated in Top Ops 2012. You too can be one of the few, the proud, The Top Ops contestant. Contact the Small Systems and Operators Committee to get involved in next year's Top Ops competition.

Max Huber is the Vice President and Director of Operations at Agra Environmental & Laboratory Services and a co-chair of the Small Systems and Operators Committee.

Tanks A Lot – 2012 Model Tank Building Contest

By Brian T. Dougherty

At the Annual Conference the Small Systems and Operators Committee held the fourth annual “Model Tank Building Contest” at lunchtime in the exhibit area. And, once again, the competition resulted in excitement, intrigue, and a little spillage.

The contest required each team to assemble a model elevated tank from a number of household materials within the 30 minute time limit. The materials included a plastic cup, drinking straws, paperclips, toothpicks, bubblegum and band-aids. After the 30 minutes was up, each tank was filled with 8 ounces of water. The tank then had to remain standing for 30 seconds.

The contest included six teams, a first for the contest. The teams included “MBA’s Think Tank,” “The Tank Busters,” Suburban Consulting, Brick Township Municipal Utilities Authority, and two teams of students from the College of New Jersey. We also give special thanks to our official judge Nicole Clarke of Tank Industry Consultants.

At the conclusion of the construction phase, each team produced impressive structures with heights between 20” and 39.” But the true test of a model tank is whether it can hold water and remain upright. So, the next step was the tank filling stage. Arguably the best part of the Model Tank Building Contest is when a tank collapses under the weight of the filling process. This year, the crowd was treated to five magnificent tank collapses. The winning team, “MBA’s Think Tank,” was the only tank to remain upright after the tank was filled.

The winning team consisted of Christine Gunsauillus (Mumford-Bjorkman Associates), Bill Hahn (Borough of Park Ridge), Patrick Cole (Birdsall Services Group), and John Hildabrant (Aqua-New Jersey). Team Captain, Christine Gunsauillus, has promised to take the tank on tour throughout the summer, visiting various municipalities, sporting events, and bars.

Once again, the event proved to be a lot of fun for both the participants and the audience. The Small Systems and Operators Committee would like to thank all the teams that participated to make this year’s contest the biggest and best one yet.

Brian Dougherty is an Associate with Hatch Mott MacDonald and co-chair of the Small Systems and Operators Committee.

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PIPELINE is the official publication of the New Jersey Section of the American Water Works Association. It is published three times a year.

Next Issue: Fall 2012
Deadline: September 30, 2012

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