Letter from the Chair

by Chris Andreasen

I am honored to be serving as the NJAWWA Chair for the upcoming year. I recall when I was first encouraged to participate in NJAWWA many years ago by Harold Florence, one of our more outspoken leaders. He described how terrific the water works industry was, the great people that you get to work with, and why I needed to get involved in NJAWWA. I am glad I followed this advice. Over the past two decades, my personal and professional life have certainly benefited from the programs and activities of NJAWWA. But most of all it’s been the relationships with the people in AWWA that have been the most valuable. Harold was absolutely correct: there were, and continue to be, great people in this profession and in NJAWWA. It is one of the organization’s greatest strengths.

For those of you who attended the Annual Conference in March, I think you will agree that this was a great event. There were many new programs and features that took a lot of hard work to complete, and we received many compliments on the new meeting location. I’d like to congratulate John Hroncich for this great conclusion to a terrific year and thank the entire Annual Conference team for all of their hard work in making the conference so successful. We gained many ideas for next year’s conference at Bally’s.

I would also like to acknowledge our 2006 awardees that were honored at the conference:

**Vince Monaco**
NJDEP
**George Warren Fuller Award**

**John Snidenbach**
City of Vineland Water
**Harold Florence Meritorious Operator Award**

**Carl Behrens**
Cape May Water
**NJAWWA Spirit Award**

Alexandra Wells
Hatch Mott MacDonald
**NJAWWA Next Generation Award**

Stacey Spangler
New Jersey American Water
**NJAWWA Fresh Ideas Award**

Each of these individuals has made a contribution to our water industry in their own way, and I congratulate them on their accomplishments.

In my remarks at the Conference banquet, I recalled the age old question regarding a partially filled glass of water, asking whether it was half full, or half empty, and compared it with NJAWWA’s services that we strive to provide to our members. I described, with pride, all of the great programs that are put on by our volunteers each year: the seminars, the top-notch technical program at the conference, the great networking events, the dedicated involvement across our membership – all of which certainly support the “half full” description of our Section. But our Fuller Awardee, Vince Monaco, challenged the “half full” description, saying he believes with all that we do, our “glass” is much more than half full. I absolutely agree, and it was good to hear that compliment. But continued on page 12
News and Upcoming NJAWWA Events

NJAWWA’s Water For People Committee Is Making A Splash
by Chris Evans

The Water For People Committee plans to splash down the Wading River through the Wharton State Forest in the New Jersey Pinelands. The 2nd Annual Water For People Kayaking / Canoeing trip will be held on Saturday August 5th in Chatsworth, New Jersey. This is a family event on a gentle and scenic river for paddlers of all skill levels. Please do not attend this event if you are allergic to having fun!

If you are not the outdoor adventurous type, consider allowing the Water For People Committee to gently splash some wine into your glass. The Water For People Wine Tasting event is our new fundraiser to be rolled out this year. The date of this event will be in September or October and the tentative location will be at the Alba Vineyard in Milford, New Jersey. Stay tuned for details of upcoming Water For People events on the www.njawwa.org webpage.

The Water For People Committee is always looking for new members to help continue hosting fun events that enable NJAWWA to provide for those who are in need. For more information about the Water For People Committee, please contact Chris Evans at (215) 928-2207 or evansca@bv.com.

Chris Evans is a Project Engineer with Black & Veatch and Chair of the NJAWWA Water For People Committee.

Attention All Small Systems and Operators
by Max Huber

The Small System and Operators and Education and Professional Development Committees have teamed resources and are planning to co-host a small system and educational seminar on Wednesday, September 13th. The location will be at the New Jersey American Water Elizabethtown facility. It will run as a half-day session. At the right is the preliminary agenda.

Please contact either Max Huber at mhuber@agra.us, or Roger Budd at RBudd@comcast.net for sign-up details.

Max Huber is Vice President/Director of Operations of Agra Environmental & Laboratory Services, and Co-Chair of the Small Systems and Operators Committee.

NJAWWA Receives Approval to Award PE Credits
by Mona Cavalcoli

The Education and Professional Development Committee is proud to announce that NJAWWA was recently approved by the New York State Education Department as a sponsor of continuing education for professional engineers.

For those of you who hold a Professional Engineer’s License in the state of New York – this will benefit you! If you need to comply with this requirement, you’ll be able to earn continuing education credits at many NJAWWA seminars and events. Not every NJAWWA seminar or technical session will be approved for PE credit. Courses that may not be applicable include those that are not related to professional engineering practice, such as accounting/financial planning or basic AutoCAD -- or courses that pertain to general office management, insurance, marketing, risk management, other non-engineering topics, or deal with laws or regulations that are specific to the state of New Jersey.

If you fall into the categories at the right and you would like to be awarded continuing education credit for your PE license, please contact the Section Office. The Section may be able to award hours retroactively for certain technical sessions at the 2006 Section Conference that was held in March at The Borgata Hotel Casino & Spa in Atlantic City.

This achievement for the Section is a value-added benefit that we can offer our members who hold multi-state engineering licenses. The Section also hopes that by being able to award continuing education credit to engineers, we may even see increased attendance at events, and some new faces from the north. Congratulations to the Education and Professional Development Committee for all their hard work in preparing the application and support materials that were required to obtain this approval.

Mona Cavalcoli is the Section Manager of NJAWWA.

Do YOU Need PE Credits?

New York State’s new regulation states that effective January 1, 2004, licensed professional engineers and land surveyors renewing registration of a license on or after January 1, 2005 will be required to complete continuing education requirements.

• If your registration is due for renewal before January 1, 2007, the number of contact hours you will be required to complete will vary, but will not exceed 36 hours for professional engineers or 24 hours for land surveyors.

• If your registration is due for renewal on and after January 1, 2007, professional engineers will be required to complete 36 contact hours of continuing education and land surveyors will be required to complete 24 contact hours of continuing education for, in each three-year registration period.
**Educational and Professional Development Committee Update**

*by Frank Falco*

I imagine we are all well on our way with the Stage 2 DBP and Long Term 2 Regulations. Submitting grandfathered data, preparing sampling plans… It looks to be an enjoyable summer.

Some areas the committee is working on are:

- Partnering with AWWA National to conduct seminars in the NY/NJ area. If this is approved it will take place in the spring of 2007. Potential topics include - Distribution Rehabilitation, Asset Management, UV and Membrane Technologies, and Crisis and the Media.

- **Last minute TCH’s:** For those of you who may be procrastinators or think you may be falling short on the required TCH’s at the close of the training cycle this year, a last chance seminar will be offered in late September. The seminar will be an evening seminar and offer 4 TCH’s. The date has not yet been finalized.

- **A seminar on sampling and compliance for small systems is in the works and should be ready to go this summer.** The seminar will be held at a treatment plant to provide hands on experience.

- **The committee has gained approval to sponsor Pennsylvania TCH’s and to provide TCH’s for New York PE. refresher classes. Seminar brochures will indicate applicable TCH’s. We are also looking forward to also having them available at the annual NJAWWA Conferences.**

As always we are looking to membership for their input and suggestions. If you would like to join or have an idea or suggestion, feel free to contact us through the NJAWWA web site.

Frank Falco is the Director of Production for Middlesex Water Company and a member of the Education and Professional Development Committee.

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**International Director’s Report**

*by Rich Russo*

As the Annual Conference and Exposition was held, celebrating AWWA’s 125th birthday, the examination of the Governance and Structure reached conclusion. The following changes were approved by the Board of Directors at its February 12, 2006 meeting:

- **Addition of one additional Vice-President, for a total of six, to be elected in the same manner the current five Vice-Presidents are elected (by the Board electors).**

- **Granting of voting status to the AWWA Research Foundation (AwwaRF) and Water For People (WFP) representatives on the AWWA Executive Committee, just as they have on the Board of Directors (and just as the AwwaRF and WFP boards grant to the AWWA President); granting of a vote to the Public Interest Advisory Forum representative on the AWWA Board of Directors and the AWWA Executive Committee.** This voting privilege does not extend to the election of officers.

- **Change of the term of the Vice-Presidents to coincide with the remainder of their term on the Board of Directors.**

All of the above changes required amendments to the Association’s Bylaws, which required two readings before the changes were final. Accordingly a conference call was held on May 1, 2006 during which the proposed changes were presented by the Chair of the Administrative Policy Council and approved by the board. The final reading was presented at the June Board meeting and the changes became final.

In addition to the three recommendations that required Bylaws changes, the board also approved:

- **Changes to the Governing Documents for councils to allow Vice-Presidents to serve as liaisons to each of the following councils: Administrative & Policy, International, Manufacturers/Associates, Standards, Technical & Educational, and Public Affairs Councils; keeping the President-Elect as liaison to the WUCC.**

- **That the Administrative & Policy Council (APC) form a Standing Committee on Governance in order to institutionalize a “continuous improvement” process to examine AWWA governance and structure on an ongoing basic; to invite active members of the Ad Hoc Committee on Governance and Structure to serve, along with APC members.**

- **The discharge, with thanks, of the Ad Hoc Committee on Governance and Structure.**

Rich Russo is a Vice President with Hatch Mott MacDonald and the International Director of NJAWWA.

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**Vendors, Reps, Manufacturer, & Service Providers**

*by Tom Kuehnel*

Whatever you consider yourself, if you are not a water purveyor, please contact me with your suggestions and comments as a member of the NJAWWA. I would like to learn what is important to you. The NJAWWA provides us with an opportunity to fulfill our goals. My hope would be to optimize these opportunities. If you have some ideas, drop me a note: tkuehnel@SolutionsByHarper.com or call (203) 323-2600.

Tom Kuehnel is the President of Harper International Inc. and Chair of the Vendors/Manufacturer’s Associates Committee.
The 2006 Conference of the New Jersey Section of the American Water Works Association was held at the Borgata Hotel, Spa, and Casino on March 21st to 24th. “Safe Drinking Water: Moving Forward Together” provided the theme for the events that ultimately hosted 750 registrants. The Borgata attracted a lot of attention and excitement that no doubt helped increase the attendance numbers.

The Conference started with two concurrent program sessions on Tuesday - the now traditional Pre-Conference Workshop and the addition of a joint session with the NJ Water Environment Association. These events are evidence of the continued strength and growth of the Conference. Only seven years ago the first Pre-Conference Workshop was launched to expand the Conference into a three day technical forum. Tuesday also saw the Trustees/Business Meeting, the Opening Session, and the Exhibitors and Sponsors Meet and Greet Cocktail Reception.

Attendees could gather upwards of 15 TCH’s from the programs offered and choose from a significant selection of talks. The 77 talks and panel discussions included familiar topics such as Regulatory and Treatment, along with discussions on the use of solar energy and Being Customer Focused (the Pre-Conference Workshop theme). The program continues to try and bring more diversity to the selection of topics. Continued input and help from Operations personnel, Exhibitors, Small Systems, Customer Service personnel, etc., will assist with this goal. Many thanks to all the speakers and the Technical Program Committee for your hours of preparation and assistance.

Once again, Jim “Jose” Cowley returned from his Puerto Rico assignment to host the Operators’ Bowl competition on Wednesday afternoon. Congratulations and good luck to Carl Behrens of Cape May Water & Sewer, Roger Budd of the Town of Barnegat, and Dahlia Ghobrial of Trenton Water Works who won the competition and the ability to represent the NJ Section at the National AWWA Conference in San Antonio, Texas this June. Kudos, as well to the remainder of the participants and organizers for their efforts.

Eighty-six exhibitors filled the Exhibit Area this year and hosted the Conference Meet and Greet, the Wednesday luncheon, and the Thursday morning breakfast. Several of the Exhibitors also participated in the program by giving technical talks. Water Hammer, the Section band, was back again during the Meet and Greet for their annual gig.

The Grease Band provided entertainment during the Annual Banquet on Thursday night, which saw the gavel passed from John Hroncich to Chris Andreasen. Many thanks to John on the completion of his term and best of luck to Chris in the coming year. Award presentations included the Fuller Award, presented to Vince Monaco of the NJDEP and the H.V. Florence, Jr. Meritorious Operator Award, presented to John Snidenbach of Vineland. CONGRATULATIONS to both recipients.

Many thanks, to all those that attended and even more so to all those that participated in the planning and carrying out of the event. The planning for the 72nd Conference is presently underway. We’re back to the Boardwalk and will be gathering at Bally’s Atlantic City Hotel Resort and Casino from March 27th through the 30th. Get involved in the planning for this event by contacting any of the Trustees or Committee Chairs. Visit "www.njawwa.org" for contact information.

William Mowell is the Engineer of Ridgewood Water and is the immediate past Chair of the Annual Conference Committee
Another Conference, Another Bowl!

by Max Huber

The Small Systems and Operators Committee (SS & OC) once again hosted a successful Top Operators Bowl at the annual NJAWWA Conference. This year’s contest, held on Wednesday, March 22nd at the Borgata Casino, had three full teams made up of water professionals from all over the state. The winning team, comprised of Roger Budd (Barnegat Water), Dahlia Ghobrial (Trenton Water Works) and Carl Behrens (Cape May Water), will be going on to the National competition in San Antonio in June.

The other team members consisted of Al Ritter (Dover Water), Mike Furrey (Agra Environmental) and Mark Ferraro (Southeast Morris MUA) on one team, and Frank Marascia (Southeast Morris MUA), Taya Brown-Humphrey (Trenton Water Works) and Keith Lamb (Pennsville Water) on the other.

The Top Ops Bowl was emceed by Jim Cowley, who came up from Puerto Rico to attend the conference. Mr. Cowley also emceed the Bowl last year and brings his own style to fielding the questions to the contestants. The play was kept “fair and equitable” by judges Richard Russo, (Hatch Mott MacDonald), Jerry Notte, (MWH), and Alan Dillon, (NJDEP).

This year at the Borgata, the Top Ops Bowl room was again well attended by conference goers and competitor cheering sections. Incoming AWWA President Terry Rolan, who attended the Bowl, said he was very impressed by the participation level and also the questions, which were put together by SS & OC committee member Joe duRocher, of the NJDEP.

All in all it was a good show and a great contest! The Small Systems and Operators Committee is looking forward to the annual AWWA conference in San Antonio, and to seeing this year’s team compete.

If YOU would like to get involved, or put a team together to compete at next year's NJAWWA conference, DON'T HESITATE! Get in touch with someone on the SS & OC, or email Max Huber at: mhuber@agra.us,

Max Huber is Vice President/Director of Operations of Agra Environmental & Laboratory Services, and Co-Chair of the Small Systems and Operators Committee.

2006 Fuller Award Winner: Vincent Monaco

by the Fuller Award Committee

At the 2006 Annual Conference, Vincent Monaco of the State of New Jersey Bureau of Safe Drinking Water was presented with the 2006 George Warren Fuller Award. The Fuller Award is conferred to a member of each AWWA section each year for “distinguished service in the water supply field and in commemoration of the sound engineering skill, the brilliant diplomatic talent, and the constructive leadership of persons in the Association which characterized the life of George Warren Fuller.”

The following is an excerpt of the Fuller Award Citation read at the Annual Conference.

“This year’s Fuller Awardee is someone who is known, or should be known to every water utility operator in New Jersey. Like many New Jersey awardees, he is a graduate of NJIT and a professional engineer.

Our Awardee has influenced every water system construction project in New Jersey for the past 28 years. He has written and re-written all of the rules which govern the design and operation of water systems.

Our Awardee has made countless presentations for New Jersey Section AWWA events. He has also done tireless committee work for decades.

In spite of many lucrative job offers recognizing his superior expertise, our Awardee has spent his entire career with the State of New Jersey in the service of clean water and public health.

Our Awardee was born in Italy and still has family overseas. He was married on the day that Italy won the World Cup in Soccer and has raised two talented children.”

Harold V. Florence Jr. Meritorious Operator Award: John Snidenbach

Named for a long-time active NJAWWA and North Jersey Water Conference Member, Licensed Operator, and Mentor, this award is bestowed annually upon an operator who has brought a higher degree of excellence, learning, initiative and resourcefulness to bear in the operation of a public water supply system. At the Annual Conference, this year’s Harold V. Florence Jr. Meritorious Operator Award was presented to John Snidenbach of the City of Vineland Water.
**Next Generation Award: Alexandra Wells**

by Nicole Wiley

The third annual Next Generation Award was presented to Alexandra Wells, an Engineer for Hatch Mott MacDonald, in March at the NJAWWA Annual Conference in Atlantic City. The award is given to a Young Professional (35 years of age or younger) who has made significant contributions to the organization. Alex has been a member of AWWA for four years and is a member of the Publications and Membership committees as well as chair of the Student Affairs committee. She is a regular attendee of AWWA membership and Young Professionals networking events, many of which she has organized. Alex is currently organizing the Section’s first Scotch Tasting event. In her free time, Alex sells Mary Kay products, and she donates a percentage of her sales to the NJAWWA student scholarship program. Her greatest contribution to the section may well be the famed “Water Drop Guy,” a rendering of the AWWA water drop stress ball wearing different outfits to publicize different events. Congratulations to Alex for some well deserved recognition.

Nicole Wiley is a Project Engineer with CH2M Hill and Vice Chair of the Membership Services Committee.

**Spirit Award: Carl Behrens**

by Margie Gray

After Hurricane Katrina swept through the Gulf Coast last August, Carl Behrens traveled to Biloxi to run an emergency reverse osmosis plant to provide potable water for the people of Biloxi. Carl paid his own expenses and used his own vacation time to serve those in need. Inspired by his generosity in using his talents and resources to help others, the Section presented Carl with its first Spirit Award at this year’s Annual Conference.

Margie Gray is an Engineer with Hatch Mott MacDonald, Chair of the Publications Committee and Editor of Pipeline.

**2006 Fresh Ideas Award Winner: Stacey Spangler**

by Hetal Mistry

At the 2006 Annual Spring Conference, a dozen young professionals participated in the Fresh Ideas competition. Started at the 2004 NJAWWA Annual Conference, Fresh Ideas is a National AWWA initiative in which young professionals (35 and under) receive recognition and compensation for presenting a paper at the annual section conference.

This year’s participants were Nicholas Santillo, Kristin Hanson, Kirk Nowack, Ryan Lemli, Chad Ustzewski, Michael Brown, Tamika Lyons, Kala Fleming, Margaret Jacques, David Tanzi, Stacey Spangler, and Pat Cole. All of young professionals presented very well and deserve recognition for their individual efforts in this year's competition. Due to the high level of participation, this year's Fresh Ideas program was extremely competitive. The Fresh Ideas competition was judged by a panel comprised of the NJAWWA Membership committee members and by members at large.

The 2006 Fresh Ideas winner is Stacey Spangler who presented her paper on the Standard Operating Procedures for Decontamination of Water Infrastructure. Ms. Spangler was awarded $300 and a Fresh Ideas plaque along with a free registration to the 2006 ACE in San Antonio should she decide to display her paper as a poster at the conference. Congratulations to Ms. Spangler for winning this year’s Fresh Ideas competition!

Now in its 3rd year, Fresh Ideas is sponsored by the Membership Services committee and will continue to be a part of the Annual Spring 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 or contact Hetal Mistry at (732) 638-7530 or hmistry@middlesexwater.com for more information on Fresh Ideas.

Hetal Mistry is a Senior Project Engineer with Middlesex Water Company and a member of the Membership Services Committee.
With a successful 2006 Annual Conference just behind us, it is already time to begin planning for next year’s Spring Conference, which will be held on Tuesday, March 27 through Friday, March 30, 2007. Each year we strive to provide an opportunity to present research findings, regulatory updates, treatment developments and generally share information with our fellow water industry colleagues. In addition, we strongly encourage those who have not submitted previously or who have not submitted in recent years to consider this opportunity, especially operators. Your participation will continue to help us to make each conference technically stronger than the last.

**ABSTRACT SUBMISSION:** In order to secure the necessary Technical Contact Hours (TCH’s) for the program, we are requesting that abstracts be submitted for consideration by September 1, 2006. Your abstract should not exceed 300 words and the title should be no greater than 10 words. Abstracts should be submitted to the Technical Program Committee in care of:

Stephen R. Blankenship, PE  
Technical Program Committee Chair  
Hamilton Township MUA  
6024 Ken Scull Avenue  
Mays Landing, NJ 08330-1854  
T: (609) 625-1872 F: (609) 625-0855  
e-mail: srship@htmuia.com

The abstract should also clearly indicate the following information:
- Speaker name and title
- Organization
- Presentation title
- Address
- City / State / Zip
- Tel / Fax / email
- Brief biographical information including education and qualifications

Individuals interested in submitting an abstract must utilize the downloadable form found on the NJAWWA website at www.njawwa.org. Abstract submission in electronic format is required. For your abstract to be considered it must be received by the Committee no later than Friday, September 1, 2006.

**ABSTRACT REVIEW:** Soon after the September 1st deadline, abstracts will be reviewed by the Technical Program Committee for technical merit, originality, timeliness and relevance. Abstracts received after the deadline may not be accepted.

**NOTIFICATION OF ACCEPTANCE AND SUBMITAL:**  
DATES: Acceptance notification will be made to the corresponding author by the end of November 2006. Submittals of all presentations will be required by February 23, 2007. Speakers are encouraged to submit a written paper as well as their presentation by February 23, 2007. Copies of abstracts, papers and presentations are intended to be included as part of the Conference Proceedings.

**CONFERENCE REGISTRATION:** Registration fees are a major source of funding for the conference and a significant percentage of registrants will be making program presentations. Speakers who are attending the conference only on the day of their presentation will be offered a complimentary one-day registration. All other speakers must register and pay for attendance. Please be reminded that speakers are required to cover all costs for attending the conference, including conference registration for days when not speaking, travel and lodging expenses.

**QUESTIONS:** Please direct your inquiries to Carol Walczyk, Chair –Annual Conference Committee at (973) 912-2534 or carol.walczyk@hatchmott.com; or Stephen Blankenship, Chair - Technical Program Committee at (609) 625-1872 or srship@htmuia.com.

Stephen Blankenship is the Executive Director of the Hamilton Township MUA and the chair of the NJAWWA Technical Program Committee.

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**Meet Our New Trustee** by Margie Gray

This year Mark Tompeck, a Vice President with Hatch Mott MacDonald, joined the NJAWWA Board of Trustees at the Annual Conference in Atlantic City. Mark holds Bachelor’s and Master’s degrees in Civil Engineering from New Jersey Institute of Technology and has been with Hatch Mott MacDonald for 27 years. Mark has been a member of the Section for 20 years and is best known for his tireless efforts on behalf of the Technical Program Committee.

During his tenure as a member of NJAWWA, Mark has served on two committees. From 1992-1999 he served on the Handbook Committee, and for over ten years he has been a member of the Technical Program Committee, the last two of which he has served as Chair. While Mark has been involved in the Technical Program Committee, the Committee’s efforts and responsibilities have grown. In the last ten years the Committee has expanded the technical program at the Annual Conference from approximately 30 technical presentations to a program of over 70 this spring. Over the years, Mark himself has contributed 9 technical presentations. Mark is proud of the work that the Technical Program Committee has accomplished over the years and plans to stay involved with the Committee while moving into his new role as Trustee. As a consultant that works with operators, engineers and managers of both small and large water utilities, Mark looks forward as Trustee to working with a wide cross section of NJAWWA membership to continue to build and improve all section programs.

Margie Gray is an Engineer with Hatch Mott MacDonald, Chair of the Publications Committee and Editor of Pipeline.

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**Thanks to Our 2005-2006 Sponsors!**

- Buck, Seifert & Jost, Inc.
- CDM
- CH2M Hill
- Greeley & Hansen
- Harper International
- Hatch Mott MacDonald
- Metcalf & Eddy, Inc.
- Middlesex Water Company
- MWH

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**Local Leaks**

Teresa Peterson of Dewberry was awarded the 2006 Young Engineer of the Year award by the American Society of Civil Engineers (ASCE), North Jersey Branch… Congratulations to the following members for passing the March 2006 operator licensing exams:

Ralph J. Engroff (T1);  
Stephen R. Blankenship (T2);  
Laura Cummings (T4);  
Kenneth K. Scharf (W1);  
Robert B. Lender, Jr. (W3);  
John Wieworka, Jr. (W4).

Got a leak? Submit news about NJAWWA members’ professional and personal milestones for publication in Pipeline. See page 12 for editor contact information.
Governor Proclaims May 7 through May 13 Drinking Water Week

by Robin Casale

The Public Information Committee and other representatives of the NJ Section of the American Water Works Association (NJAWWA) visited the Statehouse on May 8, 2006 to promote the importance of safe drinking water in New Jersey. During the visit, the group was presented with a proclamation, signed by Governor, Jon Corzine, and presented by Senate President, Richard J. Codey, officially acknowledging May 7 - 13 as “Drinking Water Week” and calling upon all New Jersey residents to practice wise water use and protect source waters from pollution.

NJAWWA members, including representatives from American Water, Aqua New Jersey, Middlesex Water Company, New Jersey American Water, and Trenton Water Works, took the opportunity to speak with legislators about NJAWWA’s role as the premiere organization in the State dedicated to preserving public health and welfare by insuring the highest quality drinking water.

Chris Andreasen, Section Chair, lead the event and spoke on the importance of public and private sector water suppliers working with legislators and regulators to secure a safe and adequate water supply, which is critical to the public health and the economic welfare of New Jersey’s citizens.

The NJAWWA Section commemorated Drinking Water Week with a variety of activities including a statewide student poster contest, networking events, and a fundraising event for Water for People. The Section also joined the Hackensack Riverkeepers for a watershed cleanup event on the Hackensack River on May 13.

For more information relating to the activities of the NJAWWA Public Information Committee, please contact:
Robin Casale (856) 309-4612 or Bernadette M. Sohler (732) 634-1500.

Robin Casale is a Senior Operations Specialist with American Water and Co-Chair of the Public Information Committee.

A New Picasso Found!

by Alexandra Wells

In May, the NJAWWA sponsored the first annual Drinking Water Week poster competition for students in grades 1-3. Over fifty student posters were received from various parts of the state celebrating this year’s theme of “Let’s Give Drinking Water a Hand”. Thank you to all of the NJAWWA members that helped to advertise the poster competition to their communities.

Eight year-old Lauren Goddard, from Washington Street School in Toms River was the overall contest winner and received a one hundred dollar savings bond as a reward for her efforts. Mrs. Smithwick’s second-grade class from Woodbury Heights Elementary won the overall classroom event. Mrs. Smithwick received a one hundred dollar gift certificate to be used towards teaching supplies, and her students were the lucky recipients of a pizza party and classroom lesson on water.

This competition will become an annual event and will be expanded next year to include a broader age group. Keep your eyes open for more information in the coming year.

For a glimpse into the children’s creativity, please visit the NJAWWA website where you can view some of our favorite entries from this year.

Alexandra Wells is a Senior Engineer with Hatch Mott MacDonald and is the Chair of the Student Affairs Committee.
We were saddened to hear of the sudden passing of one of our friends and members, Stephen (Steve) Devlin of Cherry Hill, NJ this past March. Steve was a NJ licensed operator and most recently the Assistant Superintendent for United Water Camden. He was Assistant Superintendent of Pinelands Water and Pinelands Wastewater Companies before that.

Many of us knew Steve as a loyal and active leader in NJAWWA’s Small Systems Committee and the South Jersey Water Professional’s Association. He was a strong proponent of keeping the “Operators” of the Section involved and pressed for fun activities including the revival of the Top-Ops Operator’s Bowl competition in NJ several years ago. This year, while we missed his competitive presence, the contest rocked on and we were reminded of his spirit as the contest excitement grew, and participant’s answers were “buzzing”.

Those who knew him describe his enthusiasm in his profession, dedication in his work, humor and caring with his friends and colleagues, and most of all love for his daughter, Daniella (Danny). Steve’s friendly, personality, excitement, and smile are what we will remember, and he will be surely missed. “You got that right”.

In Memory of Stephen J. Devlin

by Chris Andreasen and David Lodge

NJAWWA Welcomes First Quarter 2006 New Members and Recruiters!

by Lindsey Lento

New Members:
Robyn Ashmen
Kirk Barrett
Richard M. Brennan III
Ernest A. Bubier, Jr.
Daniel J. Dattilio
Robert J. De Block
James F. Golden
Bart Haggerty
Eric Hahn
James A. Hancocks
Kristin E. Hansen
Mimi Henry
Zahid Jemil
Alexander Kalafatides
Jim M. Kapsos, Jr.
William Kirchner
Eliana M. Lara
Fabienne Marchal
Greg S. Marciniak
Sergio Mezzina
Jane Mierzwa
Ron Milke
William Mullen
Carmen A. Orechio
Sunil Patil
Joan Potosnak
Krit Punburananon
Christopher Riar
Adam Rozsa
Michael Rubinov
Bernard Ruddock
Daniel Shallow
Donald Simons
Joe Szulczewski
Chris Tedeschi
Daniel Terry
Thomas V. Theodore, Jr.
Peter Tyrrell
Robert E. Wells
Charles R. Wolford

Recruiters:
David Kinsley
Michael E. Restaino
Robert J. Ulrich
Aidan Zalubowski

Thank you for sharing the source!

Stay up to the minute with the activities of the Membership Services Committee. Check www.njawwa.org frequently for an updated list of events!

Become an active member in our section. Join one of our committees! For information on membership or activities, please contact Lindsey Lento, 213 Carriage Lane, Delran, NJ 08075, (856) 824-2584, or llento@amwater.com.

Lindsey Lento is a Design Engineer with American Water and Chair of the Membership Services Committee.

Receive State Reimbursement for Intro and Advanced Water Courses!

by Joseph duRocher

Did you know that NJDEP’s Bureau of Safe Drinking Water has a program available to reimburse individuals taking the Intro to Water/Wastewater Operations or the Advanced Water Operations training course? You may be eligible to receive full tuition reimbursement and be reimbursed for water-related textbooks. Applicants will be required to submit 1) the completed applicable State forms, 2) proof of course completion, 3) receipt(s), and 4) proof of qualifying for a T-1 or W-1 exam (for the Intro course only, not needed for the Advanced course). We hope this program will facilitate the entry of new professionals in the industry into the ranks of licensed operators. All necessary forms can be accessed on the NJDEP Division of Water Supply website at http://www.state.nj.us/dep/watersupply/operatorcert.htm. If you have any questions, please contact Joseph duRocher at (609) 292-5550 or joseph.durocher@dep.state.nj.us.

Joseph duRocher is an Environmental Specialist with NJDEP’s Bureau of Safe Drinking Water and is a member of the Small Systems and Operators Committee.

Help

Wanted

Water Treatment Plant Operator

Gordon’s Corner Water Company-Marlboro & Manalapan Townships, Monmouth County Seeking individual with a T-2 State Water License to operate the company’s five (5) groundwater treatment plants. Competitive salary and full benefits package. Fax resume to (732) 946-9399, www.gordonscornerwater.com

Faculty Position Water Resources Engineering

The Department of Civil, Environmental and Ocean Engineering at Stevens Institute of Technology is looking to fill adjunct faculty positions in its expanding graduate program in Water Resources Engineering. For more details see job posting at www.njawwa.org.

Please visit our website, www.njawwa.org, for additional job advertisements.
### Useful Information for the Operator

**Math Sheet (Water & Wastewater)**

**WATER MATH**

- Filtration Rate, gpm/sq. ft. = \( \frac{\text{flow, gpm}}{\text{surface area, sq. ft.}} \)
- Backwash Rate, gpm/sq.ft. = \( \frac{\text{backwash flow, gpm}}{\text{surface area, sq. ft.}} \)
- Backwash % = \( \frac{\text{backwash water, gal.}}{\text{water filtered, gal.}} \) (100%)
- Wash Water gpm = area, sq. ft. x rise, ft. x 7.48 minutes
- Reservoir Volume, gal. = volume, ac-ft x 43,560 sq. ft./ac. x 7.48 gal./cu. ft.
- Reservoir Volume, ac./ft. = \( \frac{\text{reservoir volume, cu. ft.}}{43,560 \text{ sq. ft./ac.}} \)
- Surface Area, ac. = surface area, sq. ft. / 43,560 sq. ft./ac.
- Chemical Feed, lbs. = surface area, ac. x dose, lbs./ac.
- Mean or Average = \( \frac{\text{sum of values or measurements}}{\text{number of values or measurements}} \)
- Median = middle value of a group of data

**WASTEWATER MATH**

- Pond Area, acres = \( \frac{\text{avg. width, ft. x avg. length, ft.}}{43,560 \text{ sq. ft./acre}} \)
- Pond, Detention Time, Days = \( \frac{\text{pond volume, ac. ft.}}{\text{flow rate, ac.-ft./day}} \)
- Pond, Population, Loading = \( \frac{\text{population served, persons}}{\text{pond area, acres}} \)
- Pond, Hydraulic Loading = \( \frac{\text{depth of pond, inches}}{\text{detention time, days}} \)
- Pond, Organic Loading = \( \frac{\text{BOD, mg/L x flow, mgd x 8.34 lbs./gal.}}{\text{area, ac.}} \)
- Trickling Filter, Organic Loading = \( \frac{\text{BOD, mg/L x applied, lbs/day}}{\text{BOD/day, 1,000 cu. ft.}} \)
- Sludge Age (in days) = \( \frac{\text{MLSS, mg/L x tank volume, mg x 8.34 lbs./gal.}}{\text{SS in primary effluent, mg/L x flow, mgd x 8.34 lbs./gal.}} \)
- Sludge Volume Index = \( \frac{\text{settleable solids, % x 10,000}}{\text{MLSS, mg/L}} \)
- Grit Removed, cu. ft./MG = \( \frac{\text{volume of grit, cu. ft.}}{\text{volume of flow, MG}} \)
- Slope = \( \frac{\text{fall, ft.}}{\text{length, ft.}} \)
- Grade, ft./ft. = \( \frac{\text{rise, ft.}}{\text{run, ft.}} \)

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*Roger Budd is the Water Manager of the Township of Barnegat and Co-Chair of the Small Systems and Operators Committee.*
OPERATOR CERTIFICATION MATH SHEET

**EQUIVALENTS**

1 cubic foot = 7.48 gallons
1 cubic yard = 27 cubic feet
1 gallon of water = 8.34 pounds
1 p.s.i. = 2.31 feet of water
1 horsepower = 0.746 kilowatts
1 acre = 43,560 square feet
1 mile = 5,280 feet

1 mg/L = 1ppm
1 MGD = 694 gpm
π (Pi) = 3.1416
Radius of circle = diameter ÷ 2
Circumference of circle = π x diameter
Temp °Centigrade = (°Fahrenheit - 32°) x 5/9
Temp °Fahrenheit = (°Centigrade x 9/5) + 32°F

**AREA AND VOLUME FORMULAS**

Rectangles:
Area, sq. ft = length, ft x width, ft
Volume, cu. ft = length, ft x width, ft x height, ft

Cones:
Volume, cu. ft = 1/3 x π x radius, ft x radius, ft x height, ft

Circles/Cylinders:
Area, sq. ft = π x radius, ft x radius, ft
Volume, cu. ft = π x radius, ft x radius, ft x height, ft

**GENERAL FORMULAS**

Detention Time, hr = volume, gal x 24 hr/day
flow, gal./day

Velocity ft./sec = flow, cu. ft./sec,
area, sq. ft.

Velocity ft./sec = distance, ft.
time, sec.

Water HP = gpm x head ft.
3960

Pump HP = water horsepower
pump efficiency

Motor HP = pump horsepower
motor efficiency

Motor HP = water horsepower
(pump x motor efficiency)

Flow, cu. ft./sec = area, sq. ft. x velocity ft./sec.

Solids Applied, lbs./day = flow, mgd x conc., mg/L x 8.34 lbs./gal.

% Stroke Setting = required feed, xpd x 100
maximum feed, gpd

% Removal = (in - out) x 100
in

Screening Removed = screenings, cu. ft.
flow, mgd

Day’s supply = total chemical in inventory, lbs.
average use, lbs./day

$ Cost per day = hp x 0.746 x $ rate x hours/day

**CHLORINE FORMULAS**

Chemical Feed, lbs./day = flow, mgd x dose, mg/L x 8.34 lbs./gal

Chlorine Dose, mg/L = chemical feed, lbs./day
flow, mgd x 8.34 lbs./gal

Chlorine Dose, mg/L = chlorine demand, mg/L + chlorine residual, mg/L

Chlorine Residual, mg/L = chlorine dose, mg/L - chlorine demand, mg/L

Chlorine Demand, mg/L = chlorine dose, mg/L - chlorine residual, mg/L

Pounds of HTH = lbs. chlorine needed x 100
% chlorine of HTH

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Chemical Feed, lbs/day
Flow, MGD
8.34 lbs/gal
Dose, mg/L

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there is room and opportunity for more, and we must keep challenging ourselves to keep filling the “glass” and keep our programs growing and fresh.

Our Trustee Road Show meetings with member companies have provided valuable feedback on what members are thinking, what more we can do, and these meetings will continue in the next year. It is exciting to hear different people describe their interest, confidence and respect of NJAWWA, a position that has been earned by NJAWWA’s members and programs over the years. Our challenge is to keep doing what we do well, and build on this base into expanded programs on the important topics facing our industry. Several areas of need identified include: management seminars, more hands on training for operators, events for professionals outside the traditional “water works operations” fields, and increased networking opportunities. Some of these programs, such as vendor presentations, Young Professional (YP) events, and expanded topics for seminars (including partnering with other Associations) have been started, and will be further developed going forward. Some initiatives are new, and include the creation of a dedicated committee for Retired Professionals (RP’s), to grow our relationships with the organization’s “most experienced” professionals, and find ways to use their knowledge to enhance the value of the Section’s activities and programs.

I am pleased to be involved with NJAWWA during these exciting times and I look forward to working with as many of you as possible during the coming year. I would like to hear from you with your thoughts and ideas, and we’ve set up a simple email – chris@njawwa.org -- to help make that easier. I hope you will get more involved with NJAWWA. Our members are our strength, and that can be you!

Thought for next issue:
What would be the comparison between NJAWWA and a long, dedicated pipeline?

Chris Andreasen is the Director of Engineering of Middlesex Water Company and is the Chair of the New Jersey Section of AWWA.