



NJWEA Inc. SCAN NEWSLETTER



VOLUME 32, NO. 2

SUMMER ISSUE

JUNE 2010

PRESIDENT SOKOLOWSKI PRESIDES

The 95th Annual Conference of the New Jersey Water Environment Association at Bally's in Atlantic City, NJ was highlighted by the turnover of the office of President of NJWEA from Blake Maloney to his successor, our former President Elect, Robert Sokolowski of the Franklin Township Sewerage Authority.

Bob started to officially preside in his new capacity (for the next two years) at the end of the Association's annual business meeting held on the last day of the conference. He did so with great personal enthusiasm and the unanimous support of the membership. Best wishes Bob for a tremendous tenure as our leader.



Outgoing NJWEA President Blake Maloney (right) turns over the ceremonial Association Gavel to incoming President Robert Sokolowski (left), signifying his 2010-2012 tenure as President of the New Jersey Water Environment Association.

Success - Success - Success NJWEA 2010-ANOTHER WINNER!

Once again, the Association's Annual Conference and Exposition at Bally's in Atlantic City, NJ was a fantastic success. Each year we hear the slogan "Bigger and Better" and it comes to pass. This year was another conference year to remember.

With well over 2,300 registrants, "Sold Out" room nights, and a "Sold Out" exhibition, the NJWEA 95th Annual Conference and Exposition was acknowledged as a highly professional, educational and social event. New and innovative features were evident, the technical conference program and exhibition were outstanding, great ancillary activities galore and social activities most "tasteful" and entertaining.

Accolades were and are still coming from attendees, exhibitors and guests extolling the quality, content and positive impact of NJWEA 2010. This conference was one to remember from start to finish. Sincere thanks and appreciation go to Conference Manager John (Jack) Lagrosa and all who aided in producing and conducting this event. The Program Committee and the entire cadre of various committee members, volunteers, sponsors and others too numerous to mention are to be congratulated for a job well done.

Look for your copy of the next (Summer 2010) issue of our New Jersey EFFLUENTS magazine for a recap of our 95th Annual Conference and Exposition. Who knows, it may include you in the "Smile-You're on Conference Camera" segment! Here is just a sample below. Is it you?



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PRESIDENT'S CORNER



Robert Sokolowski
President, NJWEA

As I began to write this message, I started thinking of the invocation given by Joe Bonaccorso at the Grand Finale Reception for our 95th Annual Conference. It was about those who have passed away during the last year and that our Association has lost some great members. Thank you Joe for those great memories.

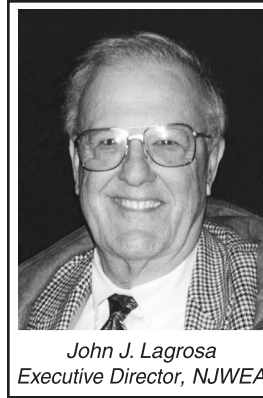
Wow, what a conference! There were 2300 attendees, 250 Vendors and 33 Technical sessions. A wealth of certificates and TCH's were earned. Thanks to all those who have worked so long and hard to make this such a successful conference. Special thanks to Jack Lagrosa for all his hours of hard work and to Rob Pennington and his committee for providing us with such interesting topics. Sincere appreciation also to the Registration Committee led by Jim De Block and Darlene Galbraith, the Logistics Room and Committee led by John McNamara, Joe Bonaccorso and Robert De Block in the Boiler Room (where things can get hot and sticky), Treasure Chest chair Jeanne Maiellano, Spouses Program Chair Ann Bonaccorso, Hospitality Coordinator Mario Bonaccorso and Robert Grodeska, and our Grand Finale "THE AMAZING 70 PROM" Chair Jim DeLaura. Again, our thanks to all of you and your committees for an exceptional job well done.

Our special thanks also go to Michelle Geisinger, the "Spring Fling" Coordinator, and Cape May for putting together another great event. There were 11 teams from across the Country and Canada competing this year. Related to this event, congratulations to our Cape Shore Workers team. They finished first in two events and second overall, Great Job!

There is one last THANK YOU and that is to the vendors who support our organization. Once again, you have contributed significantly in a professional manner. Your support of NJWEA is significant and deeply appreciated.

Just a reminder! Our next Mini Seminar will be in June. Please check the NJWEA.org website for dates and locations.

Summer has started, so please be safe vacationing, just staying at home or wherever you may be.



John J. Lagrosa
Executive Director, NJWEA

from the EXECUTIVE DIRECTOR

With great thanks to all who made it happen, all who provided their time, energy and professional input, all who contributed their financial and physical support and all who participated and interacted with others at the technical, social, exhibit and ancillary activities, my deep appreciation and that of the leadership of NJWEA for helping to make our NJWEA 95th Annual Conference and Exhibition a magnificent success. From start to finish, this was truly a wonderful production organized and implemented by dedicated volunteers. This would be for the benefit of members and guests interested in moving continually forward to improve understanding of and the ability to secure an improved water/wastewater environment in a safe, sound and rational manner.

We now look forward to our 96th Annual Conference and Exhibition in 2011 at Bally's in Atlantic City. Our committees are already at work designing updated first-class continuing education, technical, social and ancillary programs. The confirmed list of exhibitors already has a substantial number of vendors. They will be there to answer questions and present the latest equipment, methodology and service possible to registrants, who visit their booths. It again looks like another top notch sold out exposition in 2011.

The standing goal of NJWEA has been and continues to be providing the best possible programs, activities and professional interaction opportunities for our members and guests. We hope they will enable the attainment of new heights of competence and meaningful accomplishment by participants, to the ultimate benefit of the public our industry serves. We look forward to NJWEA 2011 as another stepping stone in our efforts "Preserving & Enhancing The Water Environment." Please mark your calendars now and be there on May 8-13, 2011 at Bally's "On the Boardwalk" in Atlantic City, New Jersey to be part of another conference and exhibition worthy of your support and participation toward a better tomorrow in the water/wastewater industry to which we are dedicated.



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from the desk of



THE EDITOR



Dr. Joseph J. Soporowski, Jr.
Editor, SCAN

A special thank you to all who provide meaningful current section and committee updates on the NJWEA programs, considerations, actions and events of interest, which we are able to transmit to our membership and others who read SCAN. Who are the others? They include many non-members such as faculty, staff, students and the general public who use any of the Rutgers University Library facilities. Then there are a multitude of "others" not only in New Jersey but also from around the United States, Canada and beyond. Yes, we have a large and extended audience, who await the latest word on what we do, have done and plan for the future!

We are pleased that our SCAN newsletter has been noted in the past as an exemplar publication by WEF. SCAN has also been recognized by others from the public, who are interested in the water/wastewater environment. They appreciated our message of professional progress that can reinforce hope and belief in a better tomorrow. As the largest MA in WEF, we are recognized as leaders in our field. The information provided on the many successful endeavors of our Associations is looked upon as examples that instill others in their environmental considerations and efforts.

So, again thanks to our contributors. You can and do influence our ability to bring the latest NJWEA news to our audience. The deadline date for the receipt of material for the next (Fall 2010) issue of SCAN is Monday, August 2, 2010. Please be on time and help us to keep our readers, who look to your and our leadership, well informed about NJWEA and the water/wastewater environment so important to life in many ways.

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NJWEA INSTALLS OFFICERS FOR 2010-2012 TERM

At the May 13, 2010 meeting of the New Jersey Water Environment Association's Executive Committee held at Bally's in Atlantic City, NJ during our NJWEA 95th Annual Conference, the following individuals were installed in the positions indicated to lead the NJWEA for two-year terms concluding in May 2012 at the Association's 97th Annual Conference:

President

Robert Sokolowski

President Elect

Robert C. Fischer

Vice President

Richard D. Eustice

Treasurer

Franklin Hartman

At the meeting, the following individuals were confirmed to serve in the NJWEA Executive Committee positions and for the terms of office as indicated:

Federation Delegate

Blake Maloney
(3 year term)

Regulatory Representative DRBC

William Muszynski
(3 year term)

Regulatory Representative NJDEP

Stanley Cach
(3 year term)

Elected Member North Section

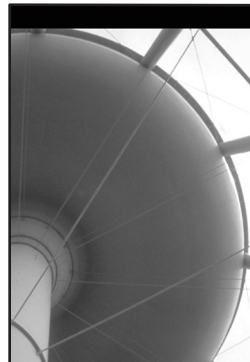
Robert Cometto
(2 year term)

Elected Member Central Section

Michael Roy
(2 year term)

Elected Member South Section

Russell Frank
(2 year term)



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LEGISLATIVE REPORT

by Dennis W. Palmer, P.E., Chairman
Legislative Analysis Committee

The following lists of bills are being monitored on their progress and impact upon our members.

S82 Modifies development application process under the "Municipal Land Use Law."

Bills and Joint Resolutions Signed by the Governor

A2505 Concerns salaries and benefits of officers, employees, and members of State and local authorities.

3/18/2010 Introduced, Referred to Assembly Appropriations Committee

3/18/2010 Reported out of Assembly Committee, 2nd Reading

Statement - AAP 3/18/10 - 2 pages

Introduced - 9 pages

A2114 (Moriarty) Makes certain changes to public access of government records.

2/11/2010 Introduced, Referred to Assembly State Government Committee

Introduced - 15 pages

S1479 (Rice) Requires State, school, local government officials to report certain criminal offenses committed by other public officials to Attorney General; imposes penalties for reporting false allegations; requires creation of reportable offenses list.

2/22/2010 Introduced in the Senate, Referred to Senate State Government, Wagering, Tourism & Historic Preservation Committee

Introduced - 21 pages

New Bills:

A2580 Permits counties and municipalities to withdraw from civil service system by ordinance.

3/22/2010 Introduced, Referred to Assembly State Government Committee

Introduced - 3 pages

A2601 (McKeon) Concerns DEP government records requests.

5/6/2010 Introduced, Referred to Assembly Environment and Solid Waste Committee

Introduced - 6 pages

A2629 (McKeon) Revises allocation of fees for certain NJP-DES permits.

5/6/2010 Introduced, Referred to Assembly Environment and Solid Waste Committee

Introduced - 4 pages

S763 (Sweeney) Authorizes director of board of freeholders to exercise veto power over proposed actions of county authorities.

1/12/2010 Introduced in the Senate, Referred to Senate Community and Urban Affairs Committee

Introduced - 9 pages

Below for our member's information is the Summary of Recommendations as the out come of the Red Tape Review Group that was chaired by Lt. Governor Kim Guadagno:

III. SUMMARY OF RECOMMENDATIONS

I. LEGISLATIVE

- A. Improve the administrative rule-making process under the "Administrative Procedure Act" by permitting rule proposals to be changed based on public comment, adopting reforms to the system of administrative adjudications. and altering the "sunset" requirements for rules.

- B. Provide for new and expanded powers to combat unfunded mandates, including expanding the number of groups who can bring complaints before the Council on Local Mandates, and enlisting the assistance of the State's law schools 10 undertake a review of all mandates presently contained in the statutory law and administrative code.
- C. Through legislation or Executive Order. as appropriate, eliminate unnecessary boards, task forces. study commissions and councils. New standards should be adopted to guide the State with respect to the creation of boards that administer regulated professions.
- D. Affordable housing dictates remain a problematic area for State policy-makers. The Red Tape Review Group, given its limited mandate and compressed time frames, recommends that the Legislative and Executive Branches continue efforts to arrive at a more effective affordable housing policy that is less burdensome for municipalities and taxpayers.
- E. The burdens of the Civil Service system were testified to at length. While this topic exceeds the mandate of the Red Tape Review Group, the Group acknowledges efforts to rationalize titles underway at the Civil Service Commission and provide a means for a municipal "opt-out."
- F. Binding Interest Arbitration was testified to 31 length, but this topic exceeds the mandate of the Red Tape Review Group and requires further review.
- G. Unfunded mandates for both K-12 and higher education should be examined.

II. REGULATORY

- A. State agencies should adopt the "Common Sense Principles" for rule-making.
- B. State agencies should proceed with rule rescissions and modifications pursuant to the 90-day review of rules.

III. POLICY

- A. State agencies should adopt a culture change that results in a more customer-service oriented mentality.
- B. Endorse the creation of a new model for job creation/economic development under the supervision of the Lieutenant Governor. A central element of this model will be the creation of "one-stop" shopping for State permits for significant economic development projects.
- C. Adopt improvements to State Information Technology systems that result in convenient and efficient access across State agency organization boundaries to integrated services for businesses.
- D. Recognize that the Office of Smart Growth and the State Planning Commission must become a key strategic player in State Government. so that permitting and capital investment decisions can be coordinated with planning.
- E. Establish an ongoing, transparent and bi-partisan Red Tape Review Group to succeed the 90-day Red Tape Review Group.
- F. Rescind Executive Orders that confuse or impede economic development goals.

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WATER NEWS FROM WASHINGTON

Legislation Introduced to Overhaul Drinking Water Act; Endocrine Disruptor Screening Program Beefed Up

Reps. Henry Waxman (D-CA) and Edward Markey (D-MA) released legislation on May 10 that would authorize nearly \$13 billion over the next five years for the state drinking water revolving fund (DWSRF) program and make other changes to the Safe Drinking Water Act. In addition to authorizing increased funding, Assistance, Quality, and Affordability Act of 2010 would put in place new provisions to help communities afford compliance with federal drinking water standards and clarify what activities can be funded with revolving fund money. The legislation would also beef up EPA's Endocrine Disruptor Screening Program, by requiring the agency to test substances found in drinking water to determine whether they disrupt the endocrine system and setting up a time frame for the agency to develop a transparent process for selecting substances to be tested. In addition, the bill would require payment of prevailing wages to laborers and mechanics on projects paid for with money from the state revolving funds. This legislation was also the subject of a May 13 hearing before the House Energy and Commerce Subcommittee on Energy and the Environment.

EPA Fecal Coliform Rulemaking Advisory Group Meets to Discuss Upcoming Guidance

EPA officials met May 11 with its total fecal coliform advisory group consisting of water utility representatives, state officials, and other stakeholders to discuss the agency's plan to revise the total coliform rule. At the meeting, EPA officials emphasized their intention to stick close to a 2008 agreement in principle on the rule revision when it is proposed this summer. The final rule is expected to come out in mid-2012, with implementation to begin three years after that. Utility and state officials and agency staff alike stressed the importance of guidance documents and forms that they said will be central to the effectiveness of the rule. Guidance documents will not involve mandatory prescriptions for actions, but they are expected to be valuable especially to the less-trained personnel working at small water systems. The meeting also reviewed data that are being gathered to help in preparation for the rulemaking and guidance efforts. The data from surveys will help point to best practices as well as management problems in the assessment of bacterial contamination in drinking water systems.

The total coliform rule is the primary regulation governing the assessment of bacterial contamination in drinking water, under the authority of the Safe Drinking Water Act. Coliform bacteria, commonly associated with fecal matter, are not always harmful, but they are treated as the primary indicator of potentially harmful microbial contamination. EPA decided in 2003 to revise the total coliform rule, then in 2007 pulled together a special committee of stakeholders that hammered out an agreement in principle, completed in September 2008. The agreement in principle pointed to the need for regular assessments of water quality combined with an obligation to take corrective action when coliform bacterial contamination is found. Under the existing rule, utilities are required to inform the public but are allowed to exercise their own discretion about what to do.

House Subcommittee Approves Legislation Requiring Drinking Water Testing for Endocrine Disruptors

The House Energy and Commerce Subcommittee on Energy and Environment approved the Assistance, Quality and Affordability Act of 2010 (H.R. 5320) on May 19. The legislation that would require EPA to order chemical manufacturers to test chemicals found in drinking water for their endocrine disrupting potential. H.R. 5320 would revise the endocrine disruptor screening program EPA established in response to the Food Quality Protection Act and Safe Drinking Water Act amendments of 1996 by making it a requirement

that the agency order tests of chemicals found in drinking water. The 1996 amendments authorized EPA to order the testing of chemicals affecting naturally occurring estrogen, or other hormones, found in sources of drinking water, but they did not require the agency to order such tests. H.R. 5320 would mandate that EPA develop a list of 100 chemicals and order testing of 25 per year. The bill would authorize \$1.5 billion in fiscal year 2011 and increase that to \$6 billion in FY 2015. The drinking water SRF was funded at \$1.387 billion in the current fiscal year.

During the subcommittee markup, legislators approved some changes to the endocrine disruptor section of the bill, but retained its definition of endocrine disruptor. The legislation defines endocrine disruptor as: "An exogenous agent or mixture of agents that interferes or alters the synthesis, secretion, transport, metabolism, binding action, or elimination of hormones that are present in the body and are responsible for homeostasis, growth, neurological signaling, reproduction and development, or any other effect that the administrator has designated to be an 'endocrine effect'" An amendment was proposed that would have added the "adverse effect" concept into the definition of endocrine disruptor. The bill's language could suggest that EPA regulate on the basis of harm or take other action regarding any chemical that had any effect on the endocrine system.

EPA Adds More Than 6,300 Chemicals and 3,800 Chemical Facilities to Public Database

EPA announced on May 17 that it has added more than 6,300 chemicals and 3,800 chemical facilities regulated under the Toxic Substances Control Act (TSCA) to a public database called Envirofacts. The Envirofacts database is EPA's single point of access on the Internet for information about environmental activities that may affect air, water and land in the U.S and provides tools for analyzing the data. It includes facility name and address information, aerial image of the facility and surrounding area, map location of the facility, and links to other EPA information on the facility, such as EPA's inspection and compliance reports that are available through the Enforcement Compliance History Online (ECHO) database. EPA is also adding historic facility information for another 2,500 facilities. EPA intends to take additional actions in the months ahead to further increase the amount of information available to the public.

USGS WaterAlert - Instant Information About Local Rivers or Wells

The U.S. Geological Survey (USGS) announced on May 17 a tool that will allow receipt of instant, customized updates about water conditions through a free subscription to WaterAlert. Whether someone is interested in watching for floods, recreational activities or concerned about the quality of well water, WaterAlert allows users to receive daily or hourly updates about current conditions in rivers, lakes and groundwater when they match conditions of concern. WaterAlert allows users to receive updates about river flows, groundwater levels, water temperatures, rainfall and water quality at any of more than 9,500 sites where USGS collects real-time water information. This information is crucial for managing water resources, including during floods, droughts and chemical spills. WaterAlert also allows kayakers, rafters and boaters to better understand when conditions are optimal and safe for recreational activities.

WaterAlert users start by selecting a specific site. Users then select the preferred delivery method (email or text), whether they want hourly or daily notifications, which data parameter they are interested in, and the threshold for those parameters. Users can set the system to alert them when conditions are above a value, below a value, and between or outside of a range.

EPA FY2011 National Water Program Guidance Released

EPA has released the final FY 2011 National Water Program Guidance. This Guidance describes water program priorities and strategies, including the suite of water performance measures and their targets, for the coming fiscal year. The National Water Program thanks stakeholders who have provided comments on the draft Guidance in March for their contribution to the revision of the draft document.



**Come Join the NJWEA
South Section
at the
Citizens Bank Park**

**Wednesday July 7, 2010
at 7:05pm**

***Philadelphia Phillies
VS
Atlanta Braves***

Section 429 Rows 12-16

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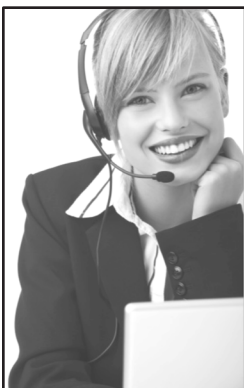
SOUTH CENTRAL AND NORTH SECTION NEWS

- South Section officers reported to have been elected and installed for 2010-2012 two-year terms are Rick Eustace as President, Dave Kennedy as Vice President, John Reardon as Secretary and John Manganaro as Treasurer. Marty Welch was elected to serve as a Trustee.
- Future South Section meeting dates are scheduled for September 23, 2010 at the Lobster House in Cape May, NJ, December 2, 2010 at the Prospect in Mount Laurel and on December 2, 2010 and January 13, 2011 at the Prospect in Mount Laurel, NJ and March 19, 2011 at the Crab House. Dates for upcoming events to be scheduled include the South Section's Vendor's Day, Annual Golf Outing and Annual Awards Dinner.
- The Central Section officers elected to serve for 2010-2011 are Jerome Harris as President, Jill Plesnarski as Vice President, Nichole Joy as Secretary, Bill Goodheart as Treasurer and Elected Member, Michael Roy. At their April Luncheon Meeting, Ray Nierstedt was voted in as Central Section Trustee to replace Ike Welcome, whose two-year term expired this year. Central Section Trustees for the coming year, whose terms expire in the years in brackets are Jeff Williams (2011), Rob Pennington (2012) and Ray Nierstedt (2013).
- The Central Section Annual Golf Outing will be held on September 17, 2010 at the Bunker Hill Golf Course with a Shotgun Start at 7:30 AM. A Vendor's Day is being considered for October 2010 and the Section's Annual Awards Dinner will be held at the Imperia in New Brunswick, NJ on December 3, 2010.
- The North Section conducted a very successful 37th Annual Frank S. Miller Dinner on March 13, 2010. Featured was the presentation of Section wards. Those in attendance enjoyed a festive evening of entertainment, dancing and interaction with friends and guests,

GOOD AND WELFARE

- Best wishes to Ron Conte Superintendent of Public Works for Fair Lawn, NJ. He is reported to have undergone a recent heart procedure and has been recovering nicely. Ron is a long-time member of NJWEA and the North Section.
- Our sincere condolences and sympathy to sons John B., his wife Beth, and Joseph S. and his wife Diana Manganaro on the passing of their mother Laura E. "Betty" Manganaro (nee VanKleeck) on February 24, 2010 at the age of 78. Betty was predeceased by her husband Joseph Manganaro, who was a very active and respected member of NJWEA and the South Section, and two sons, Jamie and Danny. Son John is an active officer of the NJWEA South Section and immediate past Chair of our NJWEA Publications Committee. "Betty" is also survived by 6 grandchildren and one great grandson.
- Joseph G. Cleary, Principal of HydroQual, Inc., Mahwah, NJ has advised that Wes Eckenfelder "a friend, colleague and pioneer in our profession" passed away on March 27, 2010 in Tennessee. A Memorial Service was held for Wes on April 1, 2010 in Nashville, TN.
- Condolences and our sympathy to Don Eelmans, whose wife passed away in May. A past officer of our NJWEA North Jersey Section, Don is also a Life Member of WEF and NJWEA.

If you know of any members who should be acknowledged remembered, please contact Jack Lagrosa at 201-296-0021. NJWEA would like to share the joys and celebrations in their lives as well as the sorrows that may be encountered.



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NEW JERSEY WATER ENVIRONMENT ASSOCIATION



LUNCHEON MEETING
NEW ORLEANS, LA.
Monday, October 4, 2010
Bus available outside Exhibit Hall at 11:00
HOUSE OF BLUES
225 Decatur Street
New Orleans, La. 70130-504-310-4990



MENU

11:15 Cocktails (cash bar)

12:15 Lunch

HORS D'oeuvres

- Vegetable Spring Rolls with Asian Dipping Sauce
- Catfish Bites with Spicy Tartar Sauce
- Skewered Grilled Jamaican Jerk Chicken Tenders

APPETIZER STATION

- Warm Spinach & Artichoke Dip
- Roasted Salsa, Sour Cream & Tortilla Chips
- Imported Cheese Display with Assorted Crackers
- Gorgonzola, Gruyere, Port Salut, Brie, Cheddar, Goat
- Boursin Cheese with Grapes & Strawberries

ENTRÉE STATION

- Chicken Creole Jambalaya/With Andouille Sausage
And Roasted Green Onions
- Smoked Pull Pork in a Tangy Jim Beam BBQ Sauce
Served with Petite Pistolettes
- Rotini Pasta with Crawfish in a Tabasco Cream Sauce

DESSERT STATION

- Traditional Bread Pudding With Jack Daniels Sauce

WINE WILL BE SERVED WITH LUNCH

AGENDA

**11:00 AM - 12:15 PM Attitude Adjustment
Cash Bar**

12:15 PM Lunch

- 1) Executive Director - Jack Lagrosa
Introductions**
- 2) President - Robert Sokolowski**
- 3) Recognition of Operators' Challenge
Team Members**
- 4) Federation Delegate Reports
Joe Bonaccorso-Sr. Fed. Delegate**
- 5) Other Reports - Federation
Representative-If Attending
MAJOR SPONSOR FOR 4th YEAR
CME ENGINEERS**

Registration Form

NJWEA Luncheon Meeting-Mon. Oct. 4, 2010

**Make Check out to NJWEA & Mail to Franklin Twp SA, 70 Commerce Dr.
Somerset, N J 08873-Bob Sokolowski, Registrar-P-732-873-2121 F-732-873-2038
Cost: \$37.00 (in advance before September 27th); \$40.00 (ON SITE)**

Name or Names

Company/Affiliation

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Method of Payment:

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Amount

CARD #

Exp Date

Authorized Signature

The New Jersey Water Environment Association Middle School Essay Contest

by Bob Fischer, President-Elect, NJWEA
Fran Bonaccorso, Chairman, Young Professionals Committee

Who doesn't get enjoyment from teaching kids something new? For the past year, I have been presenting the wastewater treatment process to eighth graders in Central Jersey. Fran Bonaccorso and Bernie Rutkowski have likewise been presenting in North and South Jersey. Together we have been visiting middle schools to introduce the next generation to the world of water and wastewater treatment. In the process, the kids have an opportunity to compete in an essay contest where they tell us what they have learned. Its fun to read their interpretations. The NJWEA goal with this program is to get water and the wastewater treatment process added to the science curriculum at the 8th grade level, even if just for a day. One of the keys to closing the gap between our State's infrastructure needs and its resources is, without a doubt, education. We think the place to start is the 7th and 8th grade levels.

When we ask the question **"Where does the water go after you run water in your sink or flush the toilet?"**, we usually get an enthusiastic, **"the Sewer"** as a response. When we follow that one up with, **"And what is a sewer?"** we hear, **"A pipe underground"**, and when we ask, **"and what is that pipe connected to?"**, we get **"the Sewer"**. The truth is, very few adults, and even less children, understand the wastewater treatment process and what it does for our quality of life and the preservation of the environment. That is one reason why we have decided to bring the understanding to them. The New Jersey Water Environment Association has started a Middle School Essay Contest to teach 8th grade students about their community water and wastewater systems and the response has been great so far. The presentation is a combination, hands-on demonstration, video and PowerPoint that is fun, educational and eye opening at the same time. At the end, the students are given a challenge to write an essay, 750 words maximum, about the wastewater treatment process and its impact on the hydrologic cycle. The winners get no small prize.

In each section, North-Central-South, the NJWEA picks one first-place winner and two runner-ups. Each of the three first-place winners receives \$200, with \$100 to the six runner-ups. Then, all three first-place section winners are judged for an overall state winner and runner-up. The State winner receives an additional \$500 and the runner up gets an additional \$250. In all \$1950 in award money is given out. All winners get their essays published in Effluents and the State winner attends the Annual conference with his/her teacher and parents.

The NJWEA has received preliminary approval of its wastewater course for inclusion in the science curriculum at one school so far. Any middle school that agrees to teach the wastewater curriculum, a 35-minute lesson, will remain eligible to compete in the essay contest that year by submitting a teacher certification that the course has been taught. Ultimately, the goal is to have as many schools as possible teaching this information. Eighth graders become high school students, eventually homeowners, voters, and decision makers in our society. I hope that this introduction to the wastewater industry, and the importance of what we do, will stay with some of the students. A lot needs to be done to educate our society on the value of maintaining and improving our water and wastewater infrastructure. The NJ Society of Civil Engineers has given Wastewater infrastructure in NJ a grade of "D" for its condition and needs vs. resources gap. Educating the public is one important area where this can be improved. Anyone interested in presenting the wastewater course to a middle school in they're area as part of the NJWEA Middle School Essay Contest should contact either Bob Fischer or Fran Bonaccorso at 732-739-1095 or Bernie Rutkowski at the Toms River Municipal Utilities Authority at 732-240-3500.



Although the NJWEA is looking for a student with a demonstrated understanding of the presented information when we judge the essays, not all essays and comments make the grade but are entertaining nonetheless. They are worth sharing before we present this years overall state winner and runner-up. So, here is a selection of responses to prior presentations for your reading pleasure:

"I really like the presentation that you did on 3/16/09. I thought it was cool that bacteria kill all the leftover dirt and filth. I never knew that. I also learned that water goes threw about 4 to 5 cycles! Thank you for coming to the Sayreville Middle School and I hope you come back to teach all of the generations to come" Francis.

You are welcome Francis, I hope to live that long.

"Thank you for the presentation. It was big; I didn't know that much about water. At least I knew about the water cycle. I wasn't really into the way you clean water, but you had a great tie on. I was happy when you told us about the way bugs work. Thanks, your friend Earl"

I think Earl is more into fashion cycles than water cycles.

"Thank you for taking your time to teach us a lesson. We really appreciate it. We learned a lot. I would like to learn more about pollution and stuff like what you taught us. That day I learned that keeping water clean is an important role in our lives. I am looking forward to learning more about why water is so important to us. Thanks again. Johanna"

Sounds like we sparked someone's interest.

Now let's take a look at the winners. The State Winner, Miss Rachel Zacharczyk, wrote an essay titled **"Flooded with Polluted Water"** (on pg. 9). Miss Zacharczyk won \$700 for her essay and a trip to Atlantic City to be recognized at the Special Student Session on Wednesday. Miss Zacharczyk is from Ocean Township Intermediate School. Her Science teacher is Ms. Eileen Mervine. Ms. Mervine accompanied Rachel and her parents to the Annual Conference. The State Runner-up, Mr. Graham Arthur, wrote an essay titled **"The Important Role of Wastewater Treatment in the Hydrologic Cycle"** (on pg. 9) and won a combined \$400 for his efforts. Mr. Arthur's teacher is Ms. Catherine Pabst, Science teacher at Our Lady of Czestochowa in Jersey City. The NJWEA is grateful to the teachers for their interest in teaching this subject matter and encourage continued involvement. We hope to present the remaining essays in a future issue of our publications.

“Flooded With Polluted Water”

by Rachel Zacharczyk

The human race (*Homo sapiens*) is amongst the many of the millions of species of organisms known and unknown that depend on water to live and prosper. Without water, life would not be possible and we would become parched like a dogs and drop dead like warriors in battle! In other words, humans would die from dehydration in a matter of days if all of four fresh water vanished! Our earth is made up of approximately three percent fresh water--ninety-seven percent saltwater--and of that three percent, seventy, percent makes up the continent of Antarctica. Additionally, we run some of that three percent of fresh water through our pipes in our houses and down our drains. Polluting the little bit of fresh water available to us. Once we pollute our water, we cannot replenish it. Hence, less than one percent of earth's drinkable water is accessible to humans. Earth's water is the water that we have always and ever will have. To illustrate, the water we have on Earth today is the water that the prehistoric organisms thrived off of! Therefore, a solution is needed to clean our polluted water and save Earth's organisms from dehydration in the distant future.

Our solution: Wastewater Treatment Facilities. Wastewater from our house rushes through our pipes and to our Wastewater Treatment Facilities. At the end of this process you see that our waste-filled water has been morphed into clear, fresh water. Preceding, our water goes through a series of processes: screening, sedimentation and flotation, and then the biological process. Through a series of two days, our dirty, polluted water is changed into clean drinkable water and discharged into the ocean. The process of screening has the purpose to take all big clumps of waste--such as toilet paper and hair clumps--and separate them from liquid and smaller pollution. Sedimentation and flotation uses the simple oil and vinegar mixture. The less dense material floats to the top of the tank and the denser sinks to the bottom; the process separates the water from the waste. Subsequently, they move to the biological process: the process of depositing microorganisms with voracious appetites for all of the rest of the pollution into the. Examples of these: microorganisms are stalked ciliate, amoeba, and algae. Finally, the water has chemicals added to it such as chlorine and it is discharged back into the ocean. To conclude, this process will assist us in replenishing Earth's water. Nevertheless, we still need to keep an eagle's eye on our use off fresh water for years to come because the treated water does not get discharged into a freshwater body, but into the environment's hydrologic cycle.

The fresh water from the waste water treatment facilities are being discharged into saltwater bodies. Perhaps a mistake? Perhaps not. The water that the dinosaurs were thriving off of is the same water that falls from the sky and that is in our glasses and oceans. Every water molecule is constantly going through the hydrologic cycle or more commonly known as the water cycle. Once the water from the wastewater treatment facility gets discharged into the ocean, it is also discharged into our environment's water cycle. The water cycle is a continuous process in which water molecules go through the environment changing from one state to another due to a series of processes. For example, once our water is discharged, it can evaporate and then eventually find a dust particle in the high altitude to condense with and form a cloud. Then it can precipitate to the ground from the force of gravity and become runoff or groundwater. It can even go through the roots of a tree and transpire going back into Earth's atmosphere. Any path a water molecule takes, will lead it to a never-ending road circling the environment. The hydrologic cycle has been happening for billions of years! Without it, dehydration would spread like morphine from one of Earth's species to the next.

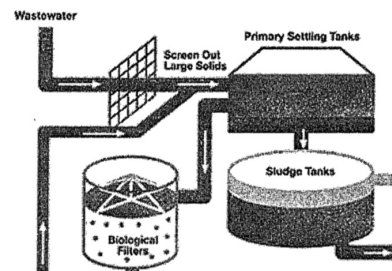
In brief: the Wastewater Treatment Facilities may be the frosting on the cake to keep the fresh water on earth from being wasted, polluted, and useless. In culmination, we have these facilities and the hydrologic cycle to thank, for the gift of life.

“The Important Role of Wastewater Treatment in the Hydrologic Cycle” by Graham Arthur

Water is the most basic substance that life needs to survive. We ourselves are about 60% water. The need for water is growing very quickly and Earth may not be able to accommodate it. There are about 6 billion people in the world today, and they all use about 6 trillion gallons of water per day. Mankind has turned the natural cycle on its head, and now has to compensate for it.

Water covers about 75% of earth's surface and in total, is about 3.55158×10^{20} gallons of water. That may seem like a lot, but it gets a bit depressing when you find that about 97-98% of that water is salt. Salt water is not drinkable because drinkable water has to contain less than 1% salt. Ocean water typically contains about 3.5%--It gets worse. Most of the 2-3% of that fresh water is somewhere in the hydrologic cycle that we can't access. It could be frozen in an ice cap or be polluted and so, we have little water available to us. This is where wastewater treatment becomes very important.

Wastewater treatments a very complex and necessary process. It filters all the water that homes use for washing, hygiene, and many other uses. The water arrives at the plant through a complex system of sewers called the sanitary sewer system. The arriving sewage is called influent. This influent first goes through a bar screening process. This removes the largest particles from the Influent but still leaves many particles in the wastewater. Many of these particles are buoyant in water. The treatment plants allow these particles to float to the top of the tank and are then skimmed off the top of the tank. The particles that are too dense to float settle to the bottom and are funneled off into sludge tanks and are then treated for use as fertilizer. The final filtration step that the wastewater goes through is aeration. During this step, bacteria are injected into the water to eat away the remaining waste. Air must also be pumped in at this point in order to speed up the effects of the bacteria. After this, they simply add chlorine to the water and that kills any remaining bacteria. Nature does this process naturally but it takes much longer to complete. Using 6 trillion gallons of water a day, we cannot afford to just wait for nature to run its course.



Water conservation is an extremely important part of keeping the Earth's natural processes going. We have to take care of what we have because the water on Earth is all that we will ever have. Even though we have these nice wastewater treatment plants, we still have to take care of our water. This is because; even if we pollute our water, that water may end up in China next year. The source of most of the Earth's pollution is mankind's fault and it becomes widespread because we do not lose any water. The same pollution that we create can be found in many different places. We can also pollute the water in many different ways. Cars sometimes leak oil, burning fuels creates acid rain in the atmosphere, and we can dump harmful things into the hydrologic cycle. This is why it is important to pay attention to our habits.

Water is a vital thing. We use it for hygiene, cooking, and drinking. We ourselves are made of water. We cannot afford to waste this vital resource. Even though wastewater treatment helps to introduce clean water to the hydrologic cycle, we each have to do our part to keep our water supply safe.

NJDEP SCIENCE ADVISORY BOARD MEMBERS SELECTED

“The Science Advisory Board is a critical component to Gov. Chris Christie’s vision that decisions at the DEP will be driven by science, data and facts,” said Commissioner Martin. “The people chosen for this board are some of the top minds in the state, experts who can take a thorough look at specific environmental issues and offer solid advice to guide me and the department.”

The Science Advisory Board and four standing committees will be made up of science experts, with a high percentage coming from the academic community. Included are Rutgers University, Seton Hall University, Clarkson University, Drexel University, Kean University, Montclair State University, Monmouth University, New Jersey Institute of Technology, Rider University, Stevens Institute of Technology, University of Medicine and Dentistry of New Jersey and William Paterson University.

The advisory board will complement work already being done by a top group of dedicated DEP scientists, providing an independent voice and peer review on scientific and technical matters. Issues related to global warming, clean air and water, contaminated soils, wind power and preservation of natural areas, will be among the many topics they will tackle.

An administrative order was signed on May 28, 2009, by Acting DEP Commissioner Mark N. Mauriello to establish the Science Advisory Board with the DEP Office of Science.

“The previous administration recognized the need for additional scientific expertise and we agree with them,” said Commissioner Martin.

A total of 109 applications for the Science Advisory Board were received by an Aug. 7, 2009 deadline. From that group, all of the persons appointed to the board have advanced degrees and extensive training, expertise and experience in scientific and technological fields related to all aspects of environmental protection.

Commissioner Martin named Judith Weis of Rutgers University, Newark, as chairwoman of the board. A professor of biological sciences, with a Ph.D. and Master’s Degree in biology, her research focuses on estuarine ecology and ecotoxicology. The other members of the advisory board, including their field of expertise and current affiliations, include:

Clinton Andrews, Ph.D., P.E.: Rutgers University, urban planning.

Raymond Ferrara, Ph.D.: Omni Environmental, environmental engineering.

John Gannon, Ph.D.: DuPont, microbiology.

Paul Lioy, Ph.D.: Environmental and Health Sciences Institute, environmental science.

Robert Laumbach, M.P.H., M.D.: UMDNJ, medical doctor.

Michael Gallo, Ph.D.: UMDNJ-Robert Wood Johnson Medical School, toxicology, pathology.

Nancy Rothman, Ph.D.: New Environmental Horizons Inc., physical organic chemistry.

Peter Lederman, Ph.D. and P.E.: Peter & Associates, chemical engineering and P.E.

Robert J. Lippencott, Ph.D.: TRC Environmental, environmental science.

Jonathan Husch, Ph.D.: Rider University, geology.

John Dyksen, M.S., P.E.: United Water Co., environmental engineering.

Mark G. Robson, Ph.D., M.P.H.: Rutgers University, environmental and occupational health/agricultural and plant science.

David A. Vaccari, Ph.D., P.E.: Stevens Institute of Technology, environmental science, chemical engineering.

Emile D. DeVito, Ph.D.: New Jersey Conservation Foundation, conservation biology.

Anthony J. Broccoli, Ph.D., M.S.: Rutgers University, atmospheric and environmental science.

A complete list of Science Advisory Board members and members of the four standing committees, and their qualifications, is available at the NJDEP website: <http://www.state.nj.us/dep/sab/>

QUOTES TO NOTE

“He whome prosperity humbles, and adversity strengthens, is the true hero.”

-Josh Billings

“The person who knows how will always have a job, but the person who knows why will be his boss.”

-Carl C. Wood

“The sign of a good manager is his ability to give and take negative feed back.”

-Richard Tanner Pascale



NJDEP LICENSING EXAM RESULTS

Congratulations to the following individuals, listed in alphabetical order, who passed the latest NJDEP Water and Wastewater Licensing Exams administered by the NJDEP. The license passed is indicated to the right of their names.

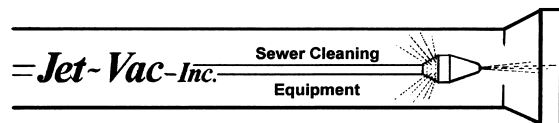
Ankush Agarinal	N-4	John J. Laskowski	W-1
Alan V. Arsenault	T-1	Andrew J. Liepe	T-2
Alan V. Arsenault	W-1	Andrew J. Liepe	W-2
Jason A. Barnette	N-1	James T. Lutes	C-2
William H. Beatty	N-2	John F. Mahaffy	S-2
Bernard F. Bigley IV	S-1	David J. Maher	T-1
Edward W. Bowman	C-2	Omar J. Maldonado	C-2
Michael S. Brady	S-3	Frank Marascia	W-4
Richard A. Brand	C-3	Charles Maree	T-2
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Joseph J. Brush II	N-2	Thomas S. Maxwell	C-2
Nicholas G. Bumbico	W-1	Allen Morales	N-1
Eric J. Burke	S-4	Quenton L. Mulford	C-1
James E. Carney	C-2	Matthew J. Mulroony	T-1
Edward J. Cerrone	W-2	Matthew J. Mulroony	W-1
Raymond B. Chapman	T-2	Jeremiah P. Murphy	W-2
Jessie D. Coburn, Jr.	C-1	Robert Oestreich	N-2
Carmelo Colon III	S-1	Michael S. O'Neil	N-1
Devern D. Corbett	T-1	Roger D. Parr	C-3
Billy J. Doty	T-1	Arthur M. Peluso	C-2
Matthew Ecker	S-2	Richard J. Pereira II	T-3
Sean H. Fitzgerald	W-2	Anthony J. Pizzo	C-3
Joseph N. Floudas	C-1	Patrick S. Power	C-1
David J. Frake	C-2	Jennifer L. Prell	VS
German L. Garcia	S-4	Marc A. Reilly	C-1
Paul H. Garren	C-1	Marc A. Reilly	T-2
Shane J. Gederberg	W-2	Glen L. Riscen	C-1
Michael J. Geier	VS	Nancy M. Rochford	T-3
Michael V. Gerbasio	T-1	Joseph M. Rogan	C-1
Joseph P. Giampietro	T-1	Joseph M. Rogan	S-1
Michael R. Giardinelli	N-2	Peter M. Schaffer	W-1
Scott W. Gibson	N-3	David T. Scheibner	W-1
William E. Greaux	N-1	James V. Schilling	T-2
Scott T. Griggs	C-2	James V. Schilling	W-2
Gregory J. Guzik	T-1	Matthew E. Schwab	C-1
Eric B. Haas	N-3	Daniel B. Servon	C-1
Milton L. Haines	VS	David Seugling	C-1
Terill D. Hargrove	C-2	William J. Shaw	W-1
Carl W. Hauck	W-2	Layne A. Simon	W-2
Paul E. Hayden	T-1	John J. Skutnik	S-3
Paul E. Hayden	W-1	William J. Stefanelli	C-2
George A. Hoff	C-4	Basil N. Stephanatos	N-3
Brian D. Hoffnagle	T-2	David A. Stout	T-1
Jeffrey M. Hope	N-2	Richard E. Tamburo	C-2
Scott T. Hostler	S-2	Walter W. Tier	T-2
Mark P. Johns	T-2	Jason M. Tillery	S-1
John T. Johnson, Jr	T-1	Andrew H. Trimmer	N-2
Kevin M. Jordan	W-1	Walter T. Trotman	C-2
Alan A. Kelley	W-2	Matthew R. Walker	C-2
Christopher S. Kelly	S-4	James G. Walzer	N-2
Timothy F. Keune	C-3	Edward J. Wentzell	S-1
Chander K. Khullar	N-2	Raymond I. Wexler	C-4
John F. Kiernan	C-2	Michael P. Woskey	N-1
Derk J. Kind	C-1	Edmond Zakerowski	C-2
Gary Krebs	T-2	Daniel R. Zizak	C-1
Edward J. Kwityn	T-2		

WELCOME NEW MEMBERS

The New Jersey Water Environment Association is pleased to welcome the following individuals who have been accepted into membership in the Association:

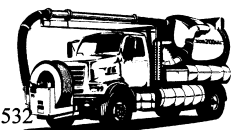
Vince Barbato	Robert Lee
Robert Barber	Alexander Lerch
David Berridge	Joseph J. Lifrieri
Ernst Brehm	Ray Lipks
Richard Brennan	Michael Maffia
David W. Briant	Tommo Mantz
Robert Brooks	Rashid Marshburn
Howard B Buck	Robert Masucci
Harry Burt	Miguel Mejia
David Capsouras	Paul V. Morrill
Guy Cavalieri	Brian J. Munson
Douglas E. Clark	Thomas Nangle
James N. Collins	Emil Nemece
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Devern Corbett	Richard O'neal
James Cotugno	Dale Parkhurst
Jennifer Crithary	Anthony Parrella
Victor Davila	Mark Pasquali
Mark Deeves	Amos Pennington
Brian Deisenroth	Rich Perretta
Edward Dill	John Petito
Steven C. Dittman	Doug Phillips
Mike Domenick	Dante Porzilli
Charles M. Ercol	Arthur W Quade
John Figueroa	Charles M. Rakita
Justin Flancbaum	Phillip G. Reeve
Kelly Flynn	Jay C. Rice
Michael J Flynn	Jason E. Rucki
Wesley Garmony	Boris Rusanor
Saeed Goodman	Andrew Saccoccia
Ed Haaf	Adan Sarduy
Adris Hariprisad	Gary Sharp
Bryan Healy	Gregory Slater
Donald Heminhaus	Richard E. Tangel
Robert Hitchcock	Vincent Testa
John Howe	Robert G. Turner
Wilson Jaramillo	Peter Turon
Vijaya Jayaraj	Carl W. Van Ness
Carlos Jimenez	Peter Vlasakakis
Kenneth L Juett	Donald P. Wallbillich
Sandra M Justice	Craig Warren
Kenneth M Keleher	Dorothy Welch
Alexander Kidd	Clifford Williams
Mark J Langeli	Dasher Zsomboran
Gregory J Latino	

We look forward to the active participation of these members resulting in a long and mutually rewarding experience.



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COMING EVENTS

Check NJWEA Website: www.njwea.org for updates.

- 9/20-23/10 NJWEA Technology Transfer Seminar, Sheraton Hotel, Eatontown, NJ
- 10/2-6/10 WEFTEC 83rd Conference & Exhibition, New Orleans, LA.
- 10/4/10 NJWEA Luncheon Meeting, House of Blues, 225 Decatur Street, New Orleans, LA. To register and/or for further information, contact Bob Sokolowski at Phone: 732-873-2121 or Fax: 732-873-2038.
- 4/17-18/11 WEFMAX 2011 Atlantic City, New Jersey
- 5/8-13/11 NJWEA 96th Annual Conference & Exhibition, Bally's Atlantic City, Park Place & Boardwalk, Atlantic City

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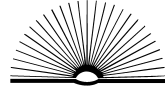
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Contributions to SCAN are encouraged. Those wishing to contribute articles, pictures and/or materials send them to:

Dr. Joseph J. Soporowski, Jr., Editor, NJWEA SCAN, 351 Bay Lane, Mantoloking, NJ 08738-1101



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