

# ENVIROED

## NEWSLETTER FALL 2014



PUBLISHED BY THE NEW YORK WATER ENVIRONMENT ASSOCIATION –PUBLIC OUTREACH COMMITTEE

### A MESSAGE FROM THE CHAIR



### 10 WAYS TO BECOME THE GREATEST AT ANY CAREER

*If you look at a list of the top 10 most remarkable engineers, you will notice some similarities. Outside, the obvious drive and ambition, these remarkable engineers also possessed an unwavering desire and a passion for engineering.*

It is what explains Edison's attitude after 1,000 failures, or Ford's belief in his idea while everyone around him was content with horse-driven carriages. What makes a great engineer is not just having a deeper understanding of a particular subject matter but also vision, drive and a create-the-best-the-world-has-ever-seen type of an attitude. Mastering these attributes and applying them to an idea or a project is what makes one a great engineer.

So, how would you know that you have become a great engineer or great in another profession? Simply use this as your guide and approach to everything that you do.

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I'm writing you on a beautiful, crisp Syracuse afternoon (I can't believe it is fall already!) after a summer that many in New York State might consider a "good growing season" due to all the rain. That rain, as you likely know, sustains us as much as it does our plant life. Despite that, it is easy to take it for granted because, at least in the Northeast, we typically have an abundance of fresh water. But, consider these events this summer:

- Toledo Ohio's drinking water supply was contaminated by excess nutrients, hundreds of thousands of people had no drinking water for days
- Detroit struggled to cope with massive flooding, backed-up sewers, and closed roads following a storm that dumped nearly five inches of rain over several hours
- Lake Mead, a reservoir providing water to several western states, hit record low water levels
- 58 percent of California is in "exceptional drought"—the most severe type possible — while 82 percent is experiencing an "extreme drought."

Today I write thinking that there are many people, even here in America, who do not have access to clean water or their water source is vulnerable or threatened.

And, as students preparing to enter the workforce, considering a career in our nation's water infrastructure has never been so vital. Most people want a job where they can "change the world," serving your community by providing clean water is probably one of the best ways to change the world everyday.

We're entering a period of global change as water resources, and their uses, continue to evolve. It is, and I bet—will continue to be a very exciting time to work in the water realm. Come join us!

Don't forget, NYWEA members are always available to speak to classrooms and we also welcome you and your school to be part of one of our programs. If you are interested, please contact me at [kadodson@syr.edu](mailto:kadodson@syr.edu) or Ms. Beth Petrillo at [bpetrillo@dep.nyc.gov](mailto:bpetrillo@dep.nyc.gov).

Our committee values your opinion and ideas! If you have any suggestions for future newsletters or are interested in helping out, please let me know!

Sincerely,

Khris Dodson

1. Settle for nothing less than outstanding work. Every time.
2. Learn from the best and strive to be better than them. Making mistakes is allowed, however, learning from others' errors is much better.
3. Determine what you are passionate about and then do exactly that.
4. Stay viable and current in your field.
5. Take risks and always think outside the box.
6. Project your ideas and ambitions 5, 10, 20 years out and then plan how to get there.
7. Align yourself with people who will support your vision and ambition.
8. Find your flaws – and fix them.
9. Give back to your community.
10. Show up every time.

*Reprinted from The Engineering Daily*



## PUBLICATIONS

### Water and Wastewater Education and Outreach Committee Publications

The Water and Wastewater Education and Outreach Committee (WWEOC) is spreading the message about the importance of water resources and infrastructure through a brochure and children's booklet entitled, "The Value of Water." The materials have been distributed statewide and nationally through state agencies and water and wastewater associations.

Through education and partnerships the WWEOC is working to elevate, promote and attract talented individuals into the water profession, and to raise awareness of the value of water and wastewater services with the public and elected officials in New York State and nationwide.

Downloads are available at [efc.syracusecoe.org/WWEOC](http://efc.syracusecoe.org/WWEOC)



## WEBSITES OF INTEREST

### [www.nyweametro.org](http://www.nyweametro.org)

This is the Metropolitan chapter website of the New York Water Environment Association.

### [www.dec.ny.gov](http://www.dec.ny.gov)

The New York State Department of Environmental Conservation has launched a new electronic newsletter for families. It is called DEC Outdoor Discovery. Each issue introduces subscribers to a seasonal environmental or nature topic, suggests a related activity, and lists family-friendly events at DEC's environmental education center. To subscribe, go to the website above and click on DEC Outdoor Discovery.

## AWARDS & CONTESTS

### 2015 U.S. Stockholm Junior Water Prize

The International Stockholm Junior Water Prize (SJWP) is the most prestigious youth award for a high school water science research project. Its purpose is to increase youth attention toward the water environment, and to sensitize them – as future leaders - to local and global water challenges. HRH Crown Princess Victoria is the patron of the prize. In a royal ceremony, during World Water Week, the international winner receives a \$5,000 USD prize and a blue crystal sculpture.

The SJWP was founded by the Stockholm Water Foundation and is administered by the Stockholm International Water Institute (SIWI). ITT Industries is the global sponsor. In the United States, the Water Environment Federation (WEF), and its member associations, sponsor and organize the state and national competition with support from ITT Industries and The Coca-Cola Company.

**The application deadline is April 15, 2015.**

**For more information, please visit [www.wef.org](http://www.wef.org)**

**Congratulations to Catherine Chung from Yorktown High School for winning the 2014 SJWP for her project, "Not a Drop to Drink: The Challenge of Building a Low-Cost Solar Still to Supply Potable Water in Developing Countries."**

### [www.nyc.gov/dep](http://www.nyc.gov/dep)

New York City Environmental Protection website.

### [www.epa.gov/teachers](http://www.epa.gov/teachers)

This is EPA's newly revised and improved environmental education website for teachers. One new feature is the addition of grade levels for the cited classroom materials.

### [www.epa.gov/fishadvisories/kids](http://www.epa.gov/fishadvisories/kids)

EPA website for kids.

## WEBSITES OF INTEREST

### [www.teachengineering.com](http://www.teachengineering.com)

Teach Engineering is a multi-university partnership that has developed K-12 engineering education curriculum modules that are standards-based, free and available over the internet. It aims to equip teachers with lessons in science, math and engineering that are creative and exciting.

### [science.nsta.org](http://science.nsta.org)

National Science Teachers Association newsletter. Each issue is filled with informative articles.

### [www.wef.org/LearnAboutWater/ForEducators/CurriculumMaterials/](http://www.wef.org/LearnAboutWater/ForEducators/CurriculumMaterials/)

The Water Environment Federation has many children's publications including Water the Amazing Journey "Go With The Flow, and World-wide Waste, It's not a Load of Rubbish.

### [www.engineeringk12.org](http://www.engineeringk12.org)

Go Engineering's e-newsletter is for K-12 educators. Its purpose is to promote the importance of engineering and technology education and explore the many ways that engineering and technology can help teachers meet the challenge of making mathematics and science come alive for students.

### [www.pbs.org/journeytoplanetearth](http://www.pbs.org/journeytoplanetearth)

Funded by the National Science Foundation, Journey To Planet Earth is a video series that helps students and adults understand the most critical and timely issues facing the natural sciences.

### [www.epa.gov/watersense/water/drop.htm](http://www.epa.gov/watersense/water/drop.htm)

"A Day in the Life of a Drop" teaches students about the connections between the sources of the water they use and how that use affects human health and the environment. These fun learning materials include a teachers guide, two student worksheets, a spreadsheet to track water use at home, and a pledge for students and their families to filter out bad water habits.

### [greeneducationfoundation.org](http://greeneducationfoundation.org)

The Green Education Foundation, in partnership with the Center for Green Schools, provides K-12 green-themed lesson plans and activities to share with educators around the world.

### [urbanext.illinois.edu/schoolonline](http://urbanext.illinois.edu/schoolonline)

This website offers curricula and teaching ideas from educators at the University of Illinois Extension. Students in grades K-6 can explore topics including weather, hydrology, food origins through interactive games and activities.

### [www.newyorkcityh2o.org](http://www.newyorkcityh2o.org)

An educational non-profit organization that offers programs about NYC's water and ecology to school groups and interested members of the public, including hikes, bike tours and lectures.

## NYWEA SCHOLARSHIPS

### NYWEA OFFERS >\$30,000 IN SCHOLARSHIPS

The New York Water Environment Association will be offering a total of six (6) \$2,000 scholarships and one (1) \$10,000 scholarship in 2015, and one (1) \$5,000 scholarship.

### 2015 \$10,000 MAJOR ENVIRONMENTAL CAREER SCHOLARSHIP

The eligibility criteria for the \$10,000 scholarship (paid out over four years) is as follows. The recipient must be:

- A qualifying high school senior
- A New York State resident
- Enrolled full-time in a B.S. or B.E. degree program with an environmental emphasis.

**Application deadline: February 10, 2015**

### MAJOR SCHOLARSHIP APPLICATION

\$5,000 Nicholas J. Bartilucci Environmental Scholarship

The eligibility criteria for the \$5,000 scholarship (paid out in one lump sum) is as follows. The recipient must be:

- A qualifying high school senior
- A New York State resident
- Enrolled full-time in a B.S. or B.E. degree program with an emphasis on public service.

**Application deadline: February 10, 2015**

### 2015 \$2,000 SCHOLARSHIP APPLICATION PACKAGE

To be eligible for one of the \$2,000 scholarships:

- Two (2) are granted to children of members
- Two (2) are granted to students enrolled at a college or university where there is a NYWEA student chapter, and
- Two (2) are granted to high school students who will be enrolled in an environmentally related program in a four year college or university.

**Application deadline: February 10, 2015**

### 2015 N.G. KAUL MEMORIAL SCHOLARSHIP

The N.G. Kaul Memorial Scholarship Fund will be offering a total of \$5,000 in scholarships to students pursuing graduate or doctoral degrees in environmental/civil engineering or environmental science concentrating on water quality who show a commitment to government service.

**Application deadline: February 28, 2015**

### JIM ANDERSON MEMORIAL SCHOLARSHIP

The Jim Anderson Memorial Scholarship offers one \$1,250 scholarship annually. Applicants must be enrolled in a B.S. or B.E. full-time engineering program with a focus on environmental issues, particularly water/wastewater.

**Application deadline: May 30, 2015**



New York Water Environment  
Association, Inc.

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Non-profit Org.  
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Permit No 260

### LUCY GRASSANO MEMORIAL SCHOLARSHIP

The scholarship will be utilized to further the careers of secretaries, administrative assistants, and operators in the water quality field.

**Application deadline: February 10, 2015**

### 2015 \$1,500 NYWEA MET CHAPTER SCHOLARSHIP

The New York Water Environment Association Metropolitan Chapter will be offering up to two (2) \$1,500 scholarships.

These scholarships are based on the following eligibility:

- Applicant must be a student enrolled at a College or University within the Metropolitan
- Chapter geographic boundaries (New York City) with an established NYWEA Student Chapter.
- Applicant must be enrolled in full-time engineering or environmental related program with a focus on environmental issues and must be completing their Junior year, Senior year enrolled in a Graduate Program.

To receive the payment, application must maintain a GPA of 2.4 out of 4.0 for the current year course of study.

**Application deadline: November 18, 2015**

**For more information about scholarships from other NYWEA chapters, visit [nywea.org/Chapter/](http://nywea.org/Chapter/)**

### PARENTS OF HIGH SCHOOL SENIORS:

Did you know that NYWEA has a Child of Member Scholarship? Do you have a son or daughter following in your environmental footsteps? If so, you may want to encourage them to submit a scholarship application in the Child of Member category.

**For more information regarding these and other scholarships, please visit the NYWEA website, [www.nywea.org](http://www.nywea.org)**

## UPCOMING EVENTS

### World Water Monitoring Day

Choose your day: March 22 – December 31st!

For more information visit [worldwatermonitoringday.org](http://worldwatermonitoringday.org)

### NYWEA 87th Annual Winter Meeting

February 2 - February 4, 2015 at the Marriott Marquis in New York City