NEWIN

NEW ENGLAND WATER INNOVATION NETWORK

2016 Water Innovation Awards

www.NEWIN.org

NEWIN 2016 Innovation Awards

Index

WATERWORKS MUSEUM

Letter from the Executive Director

Welcome to NEWIN's 2016 Water Innovation Awards Night and Gala! It is quite amazing to host an event highlighting 21st century water-innovation in a location that pays homage to Massachusetts as a water-technology leader in the 19th and 20th century. I sincerely thank Barbara Elfman and the Metropolitan Waterworks Museum for enabling us to use this amazing venue.

2016 marks a significant pivot point in the journey for NEWIN. Our 501(c)(6) Industry association (NEWIN Inc) has matured substantially. Additionally, this year we advanced our 501(c)(3) entity, NEWIN Institute Inc, a virtual water-tech incubator that provides training, education and water-tech business & innovation services to our community.

At our core, we remain an industry association that represents a network of aligned water-innovation professionals and businesses in the Northeastern US. However, we have restructured our resources to support innovation in areas that more strongly align with our region's impressive technical capabilities and the unsurpassed human capital within our established Maritime, Biotechnology, IOT and Clean-Tech economies. The three core themes include:

1. *Recycling, Reuse, & Resource Recovery*
2. *Water IT (Sensors, Analytics, Software)*
3. *Nitrogen Removal & Remediation*

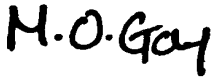
Before we highlight the hardwork of the water-technology innovators in our network - let me briefly review some metrics about our water-cluster in 2016.

- *We engage with over 1500 individuals.*
- *Our NEWIN community is comprised of 294 companies.*
- *Half are Goods & Services Providers.*
- *One Third are Engineering Firms.*
- *Twenty percent are providers of Professional Services.*

Due to our inception in Massachusetts, our water-innovation network has developed a strong cluster of 216 companies in the Commonwealth. This year, we focused on expanding that and I am pleased to highlight the natural evolution of a second cluster within our community in and around NYC and the tri-state region of NJ, NY & CT.

In 2017 we will engage programmatically in both Massachusetts and New York, further supporting and strengthening the connections and collaboration across our Northeast region. I look forward to your ongoing support and sponsorship.

Kind Regards



Marcus Oliver Gay
Executive Director, NEWIN

NEWIN Board of Directors

2016 has been a growth year for NEWIN in many fronts – notably, NEWIN's Board leadership team has grown from three to thirteen individuals. A short biographical introduction on each of our Board members is presented below. Please feel free to reach out to them directly.

Chairman - Philip G Ashcroft

philipgashcroft@gmail.com

Seasoned municipal water services executive. Previously led Veolia's north american municipal outsourcing services. Cut his teeth in the UK water-sector during the transition to privatization. Career experience with Veolia Water, US Filter, South West Water, Three Valleys Water and North Surry Water.

Vice-Chairman - Chi Ho Sham

ChiHo.Sham@erg.com

Chief Scientist at ERG. Dr. Sham is an expert in drinking water source protection, underground injection control, and the use of geographic information system and mathematical models in environmental production and natural resource management. Dr. Sham's strong academic career touches on Boston University, Clark University and Worcester Polytechnic Institute.

Secretary - Philip Jordan

pjordan@bwresearch.com

Executive Director of the Economic Advancement Research Institute and Vice President of BW Research Partnerships. Jordan has authored numerous economic development and workforce development reports, including studies on regional clean-energy jobs and industry clusters from healthcare to technology.

Chairman Emeritus - Earl Jones

ejones@heartlandtech.com

Founding Chairman of NEWIN, Earl is the CEO of Heartland Tech a ZLD water tech developer and a Partner at Liberation Capital, a Private Equity fund with an emphasis on environmental impact. Prior to Liberation Capital, Earl was a Senior Executive at the General Electric Company and served in several company leadership roles including the Global Commercial Leader for GE Water & Process Technologies.

Director - Karen Golmer

kgolmer@mit.edu

Former Executive Director of NEWIN, Karen is a chemist with an MBA and 30 years industrial water, wastewater and process separation expertise through roles with GE Water and Process Technologies. Karen is an innovator in residence at the the MIT Deshpande Center.

Director - David Macaulay
david.macaulay1@googlemail.com

David is Managing Partner of Growth Engineering LLC, a management consultancy that helps companies maximize profitable growth. Recently he was MD North America for a global transit systems company. David was previously Division President at Siemens AG.

Director - Katie MacDonald
kmacdonald@greentownlabs.com

Katie is Director of Strategic Partnerships at Greentown Labs, the nation's largest clean-tech incubator and was formerly Executive Director for Cleant-Tech Open Northeast, the longest running clean-tech accelerator in the US. With her deep knowledge of the region's innovation assets, Katie leads NEWIN's Business and Innovation Services working group.

Director - Michael Murphy
Mmurphy@masscec.com

Michael is the Business Development Manager for Water Innovation at the Massachusetts Clean Energy Center. In this role, Michael develops and administers programs that invest state funds in the region's vibrant water-innovation economy. Michael co-leads NEWIN's community engagement working group.

Director - Karen Oates
koates@wpi.edu

WPI is one of the nation's strongest engineering schools, ranked 63rd / 1350 in a recent national review. As the inaugural arts and sciences dean at WPI, Karen Kashmanian Oates oversees seven academic departments as well as interdisciplinary programs in Environmental Science.

Director - David Reckhow
reckhow@umass.edu

David is research faculty in the Department of Environmental and Civil Engineering at the University of Massachusetts, Amherst. David is PI for the EPA funded Water Innovation Network for Small Sustainable Systems (WINSSS), his research focus includes: Water treatment, Physical-chemical processes, Water quality and Water chemistry.

Director - Jay Sheehan
jsheehan@woodardcurran.com

Jay is a certified professional engineer and licensed Water Systems Operators with 20 years experience providing innovative water and wastewater solutions to utilities throughout the country. Jay was on the design team for the first permitted wastewater reuse facility in the United States. Through his career he has been involved in bringing to market water-technologies that address nutrient removal, SCADA and automation and remote technology & mapping.

Director - Maggie Theroux-Fieldsteel

theroux.maggie@epa.gov

Maggie is the Senior Cluster Development Specialist in the Environmental Technology Innovation Cluster Development & Support Program at the EPA. In conjunction with her work on water clusters, she has encouraged the EPA, state and local communities to articulate their water problems in terms of business opportunities, in order to attract private sector interest. Maggie co-leads NEWIN's community engagement working group.

Director - Bruce Walton

bwalton@battaliawinston.com

Bruce is a Partner at executive search firm Battalia Winston. Bruce primarily recruits CEO's and their direct reports to mid-cap industrial, technology and family-owned business. Bruce has placed senior leadership at majority of the region's private water services companies.

Other Key Players

Per Suneby - NEWIN Testbed Network

psuneby@gmail.com

Per has over 25 years of experience in clean energy, clean water, IT & telecommunications, and power generation. Per is a NEWIN Sustaining Member volunteering to lead NEWIN's working group on the regions Testbed Network.

Joy O'Neill - Membership Services Lead

joneill@newenngland-win.org

Joy is an officer manager and executive assistant with water industry knowledge gained during her 5 years at BlueTech Research and O2 Environmental.

Schedule of Events:

5:00 pm – Guests arrive

Water Innovation Showcase Set-up & Networking

6:00 pm – Keynote address

Keynote – Philip Ashcroft, Chairman of NEWIN Board

Highlights from 2016 – Marcus Gay, NEWIN Executive Director

Highlights from Water Pitch Night – Chi Ho Sham, Vice Chair of NEWIN Board

2016 crowd-favorite WPN winners will share a pitch and update on their success:

- *Dianne Yousef – Change:Water*
- *Pio Lombardo – Lombardo Associates*
- *Dan Sterling – Water Hero*

7:30 – 2016 Award Ceremony

Opening remarks from Mintz Levin

Awards emceed by Marcus Gay – NEWIN Executive Director

- *2016 – NEWIN Sustaining Member Recognition Award*
- *2016 – NEWIN Innovator of the Year*
- *2016 – NEWIN Innovation of the Year*

8:30 pm – Event closes

MENU

Passed hors d'oeuvres appetizers

- *Jalapeno corn cakes with cilantro lime cream and pepper jelly*
- *Cheddar and mango chutney croustade*
- *Seared spicy marinated shrimp with romesco dip (gluten free)*
- *Spicy chicken slider topped with coleslaw and pickles*
- *Tenderloin of beef on cheddar biscuits with three grain mustard and caramelized onion*

Buffet served Entree

- *Walnut crusted chicken roulade with spinach, gruyere and a tomato jam*
- *Roasted salmon with cranberry-mustard sauce*
- *Butternut squash, fried sage and parmesan tart*
- *Scallion and currant couscous*
- *Peppery green beans with caramelized onions*
- *Mesclun greens with crumbled gorgonzola, spiced pecans and roasted pears*
- *Freshly baked breads*

Assorted mini desserts

Pumpkin praline trifle, Boston cream pie, almond plum tart, s'mores

Beverages

- *City of Boston water*
- *Samuel Adams beer*
- *House red & white wine*
- *Coffee, decaf, assorted teas*

Cuisine CHEZ VOUS Catering

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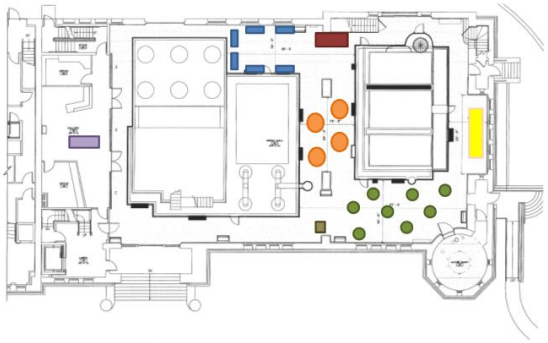
Floor-Plan:

- *Purple: Registration*
- *Blue: Exhibitor Space*
- *Brown: Bar*
- *Orange: Private Tables*
- *Green: High-top Tables*
- *Yellow: Food Service*



Note: Media room on 2nd floor

NEWIN thanks our sponsors and donors:

MINTZ LEVIN
Mintz Levin Cohn Ferris Glovsky and Popeo PC

SPLASH LINK

WOODARD & CURRAN

[bw] RESEARCH PARTNERSHIP

MASSACHUSETTS CLEAN ENERGY CENTER

HYDRAO
SMART SHOWER FOR SMART SAVINGS

THE WORLD'S MOST SAMUEL ADAMS AWARD-WINNING BEERS

WATERWORKS MUSEUM

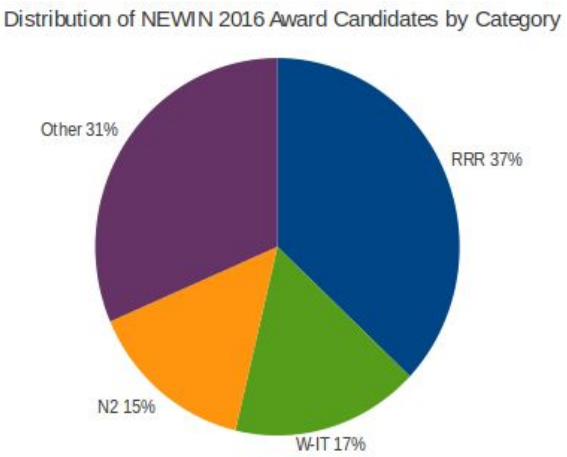
Water Hero

Award Descriptions

From within the 148 Water Technology – Goods and Services Firms in the NEWIN Community and the region's >300 academic institutions, we have identified 54 candidates for our 2016 Innovation and Innovator Awards.

In review, 37% of these candidates work in the area of Recycling, Reuse & Resource Recovery, 17% are engaged in Water-IT and 15% are active in the area of Nitrogen Remediation. The remaining 31% are engaged in topics that include:

- *Water Infrastructure*
- *Desalination*
- *Hydro/Marine Power*
- *Water Safety/Security*
- *Water conservation*
- *Plumbing*
- *POU Treatment.*



Innovation of the Year Award

NEWIN identifies successful innovation as the integration of market assessment, solution development and market engagement. The Innovation of the Year Award acknowledges the commercial market-entry success that NEWIN member companies achieve during the period of January 2016 through December 2016. Candidates for this Award will have demonstrated marked advances bringing market-ready solutions to customers in star-markets.

Innovator of the Year Award

Successful innovation is achieved not only through identifying a market-need, but also through integration of supply-chain and value-chain insight within the solution development process.

NEWIN's Innovator of the Year Award highlights individuals (not organizations) that demonstrate skill in both technology research and business analytics. NEWIN recognizes the critical importance of this binocular-vision. Candidates for the Innovator of the Year Award will have demonstrated their capacity to develop both, deep technical domain expertise, and deep commercial market knowledge enabling successful translation of market-aligned technology-research into market-adopted innovations.

NEWIN 2016 Innovation Awards

Anfiro

Sustaining Member - Cambridge, MA

Anfiro™ is a water technology start-up addressing global freshwater scarcity. We are using our self-assembling polymers to create *chlorine resistant* and *high permeability* reverse osmosis (RO) membranes that vastly outperform current membrane technology. This enables us to significantly reduce the cost of desalinating and purifying water, enabling clean and affordable water for a better tomorrow.

AQUAFRESCO

Community Member - Somerville, MA

AquaFresco is reinventing the $50B cleaning market with its breakthrough wastewater recycle system. The company spun-off from the winning team of the MIT MADMEC competition in 2014. Since then, AquaFresco has been pushing the water recycle technology from a lab innovation to a commercialized product. AquaFresco has full ownership of the IP. The team has achieved great success in the company including winning the MassChallenge Gold Award in 2015 and being a recipient of MassCEC grant in 2016.

AQUAGEN-ISI

Sustaining Member - Yarmouth, MA

Aquagen Infrastructure Systems technology is developing integrated vacuum-sewer systems, UASB and algal bioreactor technology to address critical wastewater treatment needs in decentralized residential communities.

TOWN OF BARNSTABLE

Community Member - Barnstable, MA

The mission of the Department of Public Works is to protect, preserve and improve the Town's infrastructure and related assets in a manner which meets and enhances the current and future social and economic needs of the community, to contribute to a healthy, safe and quality environment for the town's citizens and visitors. George Heufelder has leveraged the DPW's commitment to nitrogen removal technology through the development and field testing of his non-proprietary layer-cake system

because water

Sustaining Member - Boston, MA

BecauseWater is a Boston-based start-up that creates and implements solutions that improve our drinking water. We specializes in drinking water access projects in schools, parks, offices, and health & wellness facilities.

BioEnergy SP

Community Member - Albany, NY

BioEnergy is a clean tech start-up company, with a novel technology that will enhance wastewater treatment. We increase treatment capacity and reduce energy usage.

CAMBRIAN INNOVATION

Founding Member - Boston, MA

Cambrian's wastewater treatment solutions solve critical resource challenges for industry. Powered by our award-winning EcoVolt product suite, Cambrian's simple, distributed installations extract resources like clean energy and clean water from wastewater, radically reducing wastewater management costs while improving environmental outcomes.

cerahelix

Sustaining Member - Orono, ME

Cerahelix combines DNA biotechnology and ceramic materials to conserve water and energy resources used in process manufacturing. Our patented picofiltration technology provides an efficient water recycling solution for challenging industrial process conditions. Our durable PicoHelix™ filter has broad applications across multiple industries that are looking for energy savings and zero liquid discharge solutions.

Sustaining Member - Cambridge, MA

Change Water is developing and deploying safer, smarter, more dignified sanitation. Globally, 2.6Bn people lack safe toilet access, and 1Bn defecate openly. Chronic under-investment into sanitation infrastructure means people in many poor and vulnerable communities live with their sewage. With no toilets or pipes, there is no way to flush. hange:WATER Labs is developing a low-cost, compact, waterless toilet for non-sewered households and communities.

Sustaining Member - Tyngsborough, MA

We apply innovative ultrafiltration (UF) membrane technology and comprehensive systems engineering to address difficult water treatment challenges across different industries. Applying innovative technology and engineering expertise We offer off-the-shelf products and standard system designs that make existing water treatment operations more efficient and cost-effective. We also consult with operators and develop custom filtration packages, as needed.

Academic Member - Ithaca, NY

Cornell University – Juan Guzman. Juan is a graduate students within the Angenent lab. Juan works on Microbial electrochemical systems, photobioreactor design and microfluidics. His research has applications in industrial wastewater treatment, biosensors and biocomputers.

Sustaining Member - Green Island, NY

Crystal IS, an Asahi Kasei company, is an innovative U.S.-based manufacturer of proprietary, high-performance ultraviolet (UVC) LEDs. Our products are used for disinfection in a variety of applications, including healthcare, industrial and point-of-use (POU) water purification. Our UVC LEDs are also used in scientific and industrial instruments to measure the quality of water, air, and biological samples.

Founding Member - Newton, MA

Desalitech's reverse Osmosis systems are rapidly replacing traditional water purification methods, including reverse osmosis. Fortune 500 companies around the world rely on these robust and adaptive systems to streamline their operations while saving significant costs through maximum water recovery rates, lower energy consumption and lower maintenance requirements.

Community Member - Bourne, MA

Environmental Operating Solutions, Inc. **(EOSi)** leads the wastewater treatment industry with our proprietary line of MicroC® Premium Carbon Sources and complete solutions offerings. EOSi's Nitrack® Control Program achieves consistent effluent quality in a process with highly variable wastewater flows and loadings.

Community Member - Lowell, MA

Evoqua Water Technologies is the global leader in helping municipalities and industrial customers protect and improve the world's most fundamental natural resource: water. We have a more than 100-year heritage of innovation and industry firsts, market-leading expertise, and unmatched customer service.

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Sustaining Member - Willbraham, MA

Flow Design Sonic is the Filterless Filtration Company. We are pioneering groundbreaking technology that fundamentally changes the way we capture, filter, separate, and concentrate particles in fluid. Without the need for filters, we are free to explore a world of exciting applications.

Community Member - New Haven, CT

Fluid-Screen has developed a revolutionary new bacterial detection system for quality assurance testing in fields such as municipal water supply, medical applications, and food processing. For the last 100 years the standard procedure for detecting dangerous bacteria (i.e. E. coli) meant collecting a sample, sending it out to a lab and waiting 24 to 48 hours to grow a culture and report the results. Fluid-Screen's patent pending new technology puts the power of a lab in the palm of your hand to give you test results in about 30 minutes.

Sustaining Member - Pittsburgh, PA

Through a revolutionary new technology, Folia Water can provide safe drinking water to billions in the developing world for less than a penny a day. Folia Filters™ (patent pending) are made of a thick paper embedded with silver, which is lethal for microbes. When dirty water is poured through the filter, safe drinking water comes out.

Sustaining Member - Auburndale, MA

Giner Labs is a world-renowned center of excellence for electrochemical R&D. Giner develops innovative electrochemical sensor systems that offer a unique combination of ultra-high sensitivity and real-time or close to real-time results. Giner water sensors address critical needs for arsenic species, chromium, cadmium, uranium and other heavy metal pollutants at the parts per billion level;real-time in-situ Biological Oxygen Demand analysis and proof of concept microbial DNA analysis in groundwater samples.

Founding Member - Woburn, MA

Gradiant Corporation offers a customizable suite of field-proven services from primary and secondary treatment to desalination headlined by our Carrier Gas Extraction (CGE™) and Selective Chemical Extraction (SCE™) technologies. CGE is the only technology that can produce freshwater from high-TDS brines while being competitive with produced water disposal and freshwater purchase options. CGE can achieve true Zero Liquid Discharge (ZLD) where necessary.

Sustaining Member - Yardley, PA

GreenBlu's solution substantially improves solar distillation, making it competitive with reverse osmosis (RO). We provide value to our customers by providing them carbon-free water from containerized distillers installed in a distributed and resilient network using subsurface intakes with low intensity brine discharge or zero discharge.

Community Member - Boylston, MA

HMSolution provides skid-mounted water treatment systems to remove arsenic and other toxic contaminants from drinking water at significantly low operational costs. Our technology is an elegant innovation applied to the current iron

based adsorption technology. HMSolution's system has many different drinking water applications: Community water systems, beverage companies, agricultural companies, and households that need a POE (point-of-entry) or POU (point-of-use) system.

LEAKSPOTTER

Community Member - Boston, MA

Faulty toilets trickle and leak into the bowl $20 billion of water yearly in the USA alone. THEY LEAK BECAUSE of mechanical parts such as flappers and fill valves. Big leaks, e.g. fully open flappers, show up in small buildings' bills (locating the problem is still hard) but get lost in big buildings' big bills. Small leaks are worse, they stay undetected for months or years. LeakSpotter's internet-enabled device helps solve this problem.

Enviromental Engineers/Consultants
LOMBARDO ASSOCIATES, INC.

Sustaining Member - Newton, MA

LAI provides a wide range of services, including engineering feasibility studies, traditional engineering services of planning, design and construction engineering, and the turnkey services of designing and operating wastewater and water facilities. Among our areas of nationally recognized expertise are the planning and implementation of on-site and decentralized wastewater systems and innovative nitrogen and phosphorus removal technologies.

Lystek
Nothing wasted.
Everything to gain.

Sustaining Member - Ontario Canada
Local office: North Attleboro - MA

Lystek International Inc. is a leading provider of Thermal Hydrolysis solutions for the sustainable management of biosolids and organics. The multi-use, award-winning Lystek system reduces costs, volumes and GHG's by converting municipal and industrial wastewater treatment facilities into resource recovery centers. This is achieved by transforming organic waste streams into value-added products and services, such as the patented LysteMize® process for optimizing digester performance, reducing volumes and increasing biogas production; LysteGro®, a high-value, nutrient-rich biofertilizer and LysteCarb®, an alternative source of carbon for BNR systems.

Academic Member - Cambridge, MA

Redox Water Solutions – MIT. Xiao Su has spent the majority of his doctoral work developing a water purification technology that promises to efficiently separate out organic compounds and other contaminants using little energy. Using specially designed polymers that can be electrochemically modulated, Su's and Hatton's technology results in a separation process that has better capacity, selectivity, energy efficiency, and water usage performance than current methods such as reverse osmosis.

Academic Member - Cambridge, MA

Sandymount Technologies is an early stage MIT Spinout bringing an Innovative Beer Filtration System to Market.The technology is a special type of filtration that allows a portion of water to be removed from a beer, while retaining the flavor, aroma, alcohol, and source-water minerals that are critical to the beer's flavor. It is an approach with the potential to improve the quality of imported beers and reduce the fuel required for transport

MI

Community Member - Somerville, MA

Menon Laboratories develops advanced filtration technologies. Menon Laboratories titania nanotube based filtration membranes provide low-cost and clean water treatment.

MICROrganic technologies

Community Member - Hudson, NY

Flexible technology for municipal and on site wastewater treatment. Energy neutral, simple to operate and fundamentally more cost effective Whether you need to augment treatment, or add new capacity, microrganic mfcs can lower your treatment burden and implicit costs. We are currently developing product trials for municipal, residential and commercial on site treatment.

NEHC New England Hydropower Company, LLC

Community Member - Beverly, MA

Small-Scale, Renewable Hydropower. NEHC is in the hydroelectric business—using modern Archimedes hydro-screws. We evaluate, permit, engineer and build. We operate and manage. More often than not, we own the operation and sell power. We collaborate with cities and towns, private owners, river advocates, sports men and women, permitting authorities, and governments. We believe in local, sustainable, stable power generation.

Northeastern University

Academic Member - Boston, MA

Northestern University - Environmental Biotechnology Laboratory Associate Professor Apri Gu. Advanced nutrient removal by IFAS-EBPR-MBR.This process combines Integrated Fixed-Film Activated Sludge (IFAS) with EBPR process with the aim to potentially decouple the slow-growing nitrifying populations and other relatively fast growing heterotrophs, including PAOs and denitrifiers, by allowing the former to attach to media (fixed film carrier) and the latter to be in the suspended mixed liquor (ML). This would allow for decoupling and separate control of the SRTs for different microbial populations, and lead to the optimization of different biological processes in BNR systems and therefore improve the overall system reliability and stability.

OASYS WATER

Founding Member - Boston, MA

Oasys is developing innovative solutions for high recovery desalination in the energy and natural resource industries around the globe. Over the next 25 years, demand for fresh water will be 40% higher than the available supply, making the treatment and usage of alternative water sources crucial. Despite steady but incremental advancements in high recovery desalination technology over the past few decades, treating these difficult waters has always been costly and required significant energy. Oasys Water changes that forever.

Opti

Sustaining Member - Boston, MA

Opti is building the internet of Stormwater to protect our water resources. Stormwater management is one of the most pressing urban environmental issues in the developed world. In the US alone, we discharge over 900 billion gallons of raw sewage into natural bodies every year due to combined sewer overflows. In addition, stormwater runoff can carry pollutants from urban and agricultural land into natural water bodies, resulting in eutrophication. Furthermore, due to urbanization, stormwater often flows too quickly into local water bodies, stirring up sediment and wreaking havoc on local species.

PROPER PIPE
A proper seal every time

Sustaining Member - Boston, MA

Proper Pipe is an innovation house dedicated to improving global water, oil and gas supply systems. We combine our experience from the end user side with our technical know-how to create innovative solutions to industry problems on all levels. We deliver critical solutions to leading professionals in manufacture, system design, oversight committees, and others with a focus on fluid loss management. We understand the value of lost energy due to processing fluids for pipeline transmission only to have fluid loss prior to use. Our goal is to curtail loss by

implementation of methods for constant inexpensive system testing.

Community Member - Cambridge, MA

PV Pure provides systems that allow you to produce the highest quality water on-site at a very reasonable cost! The systems are designed with high quality components, equipped with smart controllers to ensure the highest operational efficiency, optimized maintenance, and are easily operated and maintained by non-experts. Your system is designed with your climate and local environment in mind. All of these reasons save you money, keep you healthy and helps the environment.

Sustaining Member - Boston, MA

Resolute Marine Energy (RME) is developing technologies that produce clean energy from ocean waves. Since the company's founding in 2007, RME has received generous research and development funding from the U.S. Department of Energy and the U.S. Department of Interior – Bureau of Reclamation and test program support from organizations including the University of North Carolina – Coastal Studies Institute and the U.S. Army Corps of Engineers.

Sustaining Member - Bolton, MA

While public water systems must comply with EPA regulations for water testing and treatment on a monthly basis, private well owners have to bear the responsibility for testing and treating their private water supply–even though they are typically drawing water from the same source. We offer a convenient concierge service where we handle the entire water quality testing process for busy well owners. Our vision is to provide every well owner in the U.S. the peace of mind knowing their well won't run dry and their water is always safe to drink.

Community Member - Scituate, MA

Safve Inc. Is developing several disinfecting products, one of which is Drinksafve™ a new, innovative water disinfection technology utilizing surface-binding anti-microbial polymers to kill bacteria, viruses and pathogens on contact, while eliminating harmful disinfection byproducts. Drinksafve™ can be integrated into existing water treatment plants (as well as tertiary waste and storm-water treatments), deployed as a portable water disinfection solution, or as a solution for entire municipalities in developing countries.

Sustaining Member - Paris France

Smart & Blue is developing connected solutions for smart management of water resources. Our first product is Hydrao the IOT smart shower that provides real-time feedback of water-consumption. Our product saves money, energy and water through the gamification of water-conservation in the home shower.

Community Member - Boston, MA

Sourcewater.com, developed at MIT, is the first online marketplace for buying, selling and managing water and water services for oil and gas production. We are changing the way that water is valued and used in the energy industry to improve natural resource stewardship and reduce environmental impacts of energy production while improving the cost, reliability and efficiency of energy operations. The company was founded in early 2014 and is based in Boston.

Sustaining Member - Stony Brook, NY

Stony Brook University houses the New York State Center for Clean Water Technology (CCWT). The development of nitrogen removing biofilters for onsite wastewater treatment on long island. The NYS CCWTy was established with the goal of developing and commercializing technology that will be efficient, reliable, and affordable at removing nitrogen and other contaminants from onsite wastewater. The CCWT has identified NRBs as a technology potentially capable of meeting this goal, and is actively developing the next generation of NRBs with the objective of identifying the optimal configurations for Long Island.

SWR Strategic Water ReSources

Sustaining Member - Mystic, CT

Strategic Water ReSources (SWR) is a registered Connecticut Corporation founded in 2013 specializing in the design, procurement and implementation of water processing devices and systems. SWR was created by a focused team of scientists, engineers and entrepreneurs that possess decades of unique experience and skill sets especially suited for the highly competitive water purification market.

SURGE HYDRO

Community Member - Belfast, Maine

Surge Hydro is focused on ushering hydroelectric facilities into the twenty-first century. By implementing innovative and progressive technology we will provide our communities and our clients smart energy for generations to come.

EMERSON SWAN
A Swan Group Company

Sustaining Member - Randolph, MA

Emerson Swan is one of the largest manufacturers' representative organizations in the US. Starting off as a representative organization for pipe, valves and fittings for the plumbing industry, the company has grown to include such products as boilers, solar collectors, water heaters, kitchen & bath fixtures and heat distribution products.

Tufts UNIVERSITY

Academic Member - Medford, MA

Dr. Ayse Asatekin developed a new membrane for treating industrial wastewater, facilitating lower energy use and higher water quality. Grant funding will go toward generating membrane samples and pursuing third-party testing.

UMASS AMHERST

Sustaining Member - Amherst, MA

Dr. David A. Reckhow is PI of the Water Innovation Network for Sustainable Small Systems (WINSSS) program. WINSSS brings together a national team of experts to transform drinking water treatment for small water systems (SWS) to meet the urgent need for state-of-the-art innovation, development, demonstration, and implementation of treatment, information, and process technologies in part by leveraging existing relationships with industry through the Massachusetts Water Cluster.

UMASS AMHERST

Academic Member - Amherst, MA

Dr. Chul Park's team is developing a biological wastewater treatment process that will dramatically reduce operational energy costs at wastewater treatment plants, while also allowing plant operators to recover and use otherwise-wasted energy.

UMASS AMHERST

Academic Member - Amherst, MA

Dr. Caitlyn Butler is focused on developing energy-efficient strategies for wastewater treatment. Her research examines biofilm systems where microorganisms use counter-diffusional chemical

gradients to accomplish treatment goals. Her works focuses on developing scalable industrial biotechnology process designs that are easily integrated into existing treatment infrastructure. In addition to bioreactor design, her research addresses the ecology and function of the microorganisms that facilitate wastewater treatment.

Sustaining Member - Cambridge, MA

Upstream Monitor. Monitoring water use on fields is important, whether to support water markets or understand what's happening on the landscape.

Community Member - NA HQ - Boston, MA
CeraMem HQ - Waltham, MA

CeraMem® ceramic membranes are a proprietary technology platform that combines innovative design features and unique materials of construction to provide ceramic membrane modules at costs comparable to polymeric membranes. The design, which is a combination of proprietary materials of construction and unique membrane chemistry, allows the utilization of large-diameter ceramic monolith membranes that reduce the overall footprint of installed equipment in harsh operating environments unsuitable for conventional membrane products. Veolia US HQ and Veolia Water Technology division CeraMem are Boston based water-technology leaders.

Sustaining Member - Boston, MA

Water Hero Inc. was founded when Dan Sterling's home suffered catastrophic damage from a pipe burst. After searching through the expensive options available he set out to build a low cost water monitor that protects against leaks and enables water conservation. We have built and optimized a product that uses an old metering technology and brings it into the modern age. The Water Hero Unit uses existing positive displacement meters to digitize flow readings, notifying of a leak via a smartphone interface.

Founding Member - Worcester, MA

Dr. Wole Soboyejo is Dean of Engineering at WPI. His research focuses on experimental studies of biomaterials and the mechanical behavior of materials. He has developed a ceramic filter made from a clay-and-sawdust mixture to remove pathogenic bacteria from water. Baking the mixture burns off the sawdust, leaving behind tiny pores that block microbes.

Sustaining Member - Kearny, NJ

National Water Main Cleaning Company, A Carylon Corporation - has grown to become the largest and most experienced industrial & municipal water-infrastructure maintenance contractor in the country. NWMCC and its partners are commercializing hidden-asset inspection technologies that do-not require system to be taken out-of service.

Sustaining Member - North Andover, MA

Watts Water Technologies is a global provider of plumbing, heating, and water quality solutions for residential, industrial, municipal, and commercial settings. Our family of companies offers one of the most varied plumbing, heating, and water quality product lines in the world.

xylem
Let's Solve Water

Founding Member - HQ Rye Brook, NY
Local office - Beverly, MA

Xylem Analytics is a leading provider of premium field, portable, online and laboratory analytical instrumentation serving water & wastewater, ocean / coastal, food & beverage, environmental, chemical and pharmaceutical markets. Xylem Analytical has launched a new OI 5383 Pulsed Flame Detector (PFPD). The new detector gives chemists the ability to specifically determine and selectively analyze low levels of sulfur, phosphorous and 26 other analytes of interest in the petrochemical, environmental lab, and food & beverage markets. OI Analytical will also launch their new Eclipse 4760 Purge and Trap Sample Concentrator, offering faster cycle times and higher sample throughput in drinking water, wastewater, soils, and petrochemical applications.

NEWIN In-Action 2016

February – NEWIN supported CERA Week – EIP

- *SourceWater*
- *OasysWater*

March – NEWIN media sponsor AWWA Sustainable Water Management Conf – Rhode Island. Speakers include:

- *Maggie Theroux-Fieldsteel*
- *David Reckhow*
- *Jay Sheehan*

March – World Water Day

- *BeCause Water & NEWN Water Jobs Fair*
- *NEWIN Workforce Development Roundtable for sustaining members*

April – NEWIN sponsor MIT students Water Innovation Prize VIP reception

- *Donated by Tom Tilas – AECOM*

May – Recycling & Reuse Roundtable

- *NEWIN Separation technology Roundtable for sustaining members*

May – Water Pitch Night – Recycling Reuse and Recovery

Keynote from Bruce Bishop – Managing Director of Ceramem – Veolia Water Technology. Other speakers include:

- *Diana Y – Change:water*
- *Chris Lai – Aquafresco*
- *Xiao Su – Redox Water Solutions*

June – NEWIN media partner at BlueTech Forum – San Francisco

- *Oasys Water*
- *Gradiant Corporation*
- *Cambrian Innovation*
- *Opti RTC*

August – Water Pitch Night – Nitrogen & Coastal Water Quality

Keynote from Eric Stoermer – CEO EOSI – microC. Other speakers include:

- *Jennifer Garvey – Stony Brook*
- *Brian Braggington-Smith – Aquagen*
- *Pio Lombardo – LAI*
- *Hari Venugopalan – Crystal IS*

September – WEFTEC New Orleans

- *NEWIN – 5 speaking engagements*
- *93 NEWIN companies at WEFTEC*

October – Water Pitch Night – Water IT

Keynote from Rob Ellison, CTO Veolia Analytics. Other speakers include:

- *Dan Sterling – Water Hero*
- *Mahesh Viswanatha- Leakspotter*
- *Eric Burkel – Hydrao*
- *Badawi Dweik – Giner*

October – WPI & NEWIN

- *NSF sponsored Water Innovation Workshop*

November – NEWIN sponsor MIT Student's Water Summit. Speakers include:

- *Marcus Gay*
- *Michael Murphy*

December – NEWIN 2016 Innovation Awards:

- *Innovation of the Year*
- *Innovator of the Year*
- *Member of the Year*

What is Next? A look at 2017

We have an action packed agenda for our community in 2017. To keep uptodate with the regional networking events, water pitch nights, conferences, symposiums – bookmark this URL: www.NEWIN.eventbrite.com

- ***January 12th** – The Future of Water: 2017. What impact will a Trump Administration have on the US Water Sector?*
- ***January 15th** – NEWIN Virtual Incubator – Stage 1 opens to receive applicants.*
- ***January 23th** – We've partnered with NEWEA to deliver an Innovation Pavillion at the NEWEA Annual Conference.*
- ***February 9th** – Kicking off Water Pitch Night 2017 – theme of Recycle, Reuse and Resource Recovery.*
- ***March 16th** – our first event in NY – Water Pitch Night focused on Nitrogen remediation technology.*
- ***March 22nd** – Symposium on Water Innovation – Focus on Wastewater Technology.*
- ***April 6th** – WaterPitch Night Massachusetts – Focused on Hydro / Marine Power.*
- ***May 5th** – Innovation Showcase: Smart Water / Water IOT Technology.*
- ***June 4th** – Innovation Showcase: Nitrogen Remediation .*
- ***June 6th – 7th** – NEWIN Media Partnership with BlueTech Forum (Dublin, Ireland).*
- ***June 11-14th** NEWIN Media Partnership with AWWA Annual Conference & Exhibit.*
- ***June 15th** – Water Pitch Night – Nitrogen and Coastal Restoration.*
- ***September 14th** – Water Pitch Night – Smart Water / Water IOT.*
- ***October 2-4th** – NEWIN engagement at WEFTEC 2017 Innovation Pavillion – Chicago IL.*
- ***November 16th** – Water Pitch Night – Developing World Applications.*
- ***December 5th** – 2017 Water Innovation Awards Night & Gala*