



Water and Wastewater Newsletter

"...for the water treatment professional"

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In the News

AWWA : World's Largest Drinking Water Conference



DENVER, CO -- The American Water Works Association (AWWA), the authoritative resource on safe drinking water, today announced several new events that will be unveiled at its 123rd Annual Conference and Exposition (ACE) to be held June 13-17, 2004 at the Orange County Convention Center in Orlando, Florida.

The premier event for total water management, AWWA's five-day conference will feature a new technology showcase exhibiting the latest and greatest technology in one area. Also new this year, ACE is hosting the U.S. Department of Commerce's International Buyer Program (IBP) which encourages the export of US-made products by matching international buyers with domestic firms.

AWWA has invited international attendees from all around the world. The Water Industry Luncheon will feature guest speaker Lou Holtz, the only coach in NCAA history to lead six different programs to bowl games. Additionally, over 500 exhibitors will demonstrate the latest innovations and technology in the drinking water profession.

"The conference theme 'One World One Water' truly represents the global importance of safe drinking water," said Jack Hoffbuhr, executive director of AWWA. "The collective knowledge and experience found at this conference provides water professionals with the information and tools needed to meet new challenges and continue to protect public health and effectively manage our priceless water resources."

Other key conference events include the H2Open Forum discussing the link between the electricity and water industry, as well as the world-renown pipe tapping contest. Also, ACE will feature more than 70 technical sessions and 13 pre-conference workshops focusing on pressing issues such as infrastructure management, security, benchmarking, and legislative and regulatory challenges.

For more information on the conference and registration, visit www.awwa.org/ace2004 or call toll-free 1-800-926-7337.

AWWA is the authoritative resource for knowledge, information, and advocacy to improve the quality and supply of drinking water in North America and beyond. AWWA is the largest organization of water professionals in the world. AWWA advances public health, safety and welfare by uniting the efforts of the full spectrum of the drinking water community. Through our collective strength we become better stewards of water for the greatest good of the people and the environment.

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From the editor

Hi Everyone,

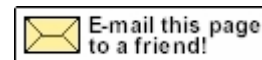
Our goal is to provide information improve your business by using th resources available on the Interne

Thanks,
Joe Taylor, Editor
jtaylor@waterandwastewater.com

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Tell a friend



From the Reading Room

★★★★★ "One very best engine texts that I have across in my car"

This newsletter is sponsored by:



Chickens : HydroFlo Provides WWT Equipment to Tyson



RALEIGH, N.C. -- HydroFlo, Inc. announced today that it has provided and installed equipment for the treatment of wastewater at a Tyson Foods chicken processing plant.

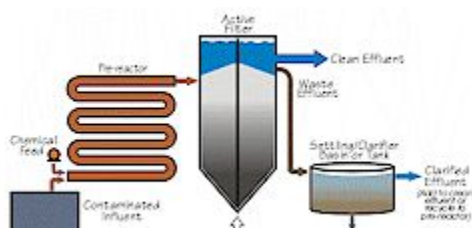
The HydroFlo equipment typically used for aeration of wastewater and for odor control in force mains is being used by this Tyson facility for an entirely different application. The application is called Dissolved Air Flotation (DAF) and this adds to the list of solutions that HydroFlo is able to provide its industrial clients.

HydroFlo's core business is providing aeration equipment used for the pre-treatment of wastewater. Using the patented Pressure Line Up-Stream or PLUS pre-treatment system, customers begin the treatment process at their pumping stations, prior to the wastewater reaching a treatment plant. The company also provides a full range of related services to companies and municipalities to treat their wastewater at the treatment plant by the use of the energy efficient aeration systems in treatment lagoons.

"This installation adds a new realm to the technology that HydroFlo is able to provide. DAF equipment is used by a wide variety of industry worldwide, and our aeration systems provide a new alternative for high efficiency treatment of wastewater within an energy hungry world. This new application continues to add to the company's overall potential," said Dennis Mast, CEO of HydroFlo.

For further information contact:
HydroFlo, Inc.
Telephone: 919-772-9925
Website: <http://www.hydroflo-inc.com>

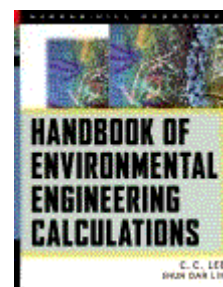
Phosphorus Removal : Blue Water Releases New Technology



Coeur d'Alene, ID -- Blue Water Technologies, Inc. has recently made a new phosphorus removal technology commercially available. The water treatment system, known as the Vandal-ION

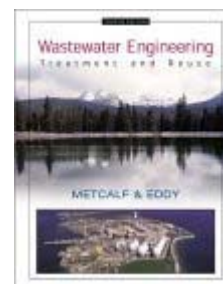


Pumping Station Design
by Robert L. Sanks
Hardcover, 1000 pages, February



★★★★★ ".../ step-by-step calculations & procedures in environmental areas..."

Handbook of Environmental Engineering Calculations
by C. C. Lee, Shun Dar Lin (Ed)
Hardcover, 1,504 pages, March



★★★★★ "It is monumental & very clear and written. We need this book."

Wastewater Engineering Treatment & Reuse
by G. Tchobanoglous, Metcalf & Eddy
Hardcover, 1848 pages, March

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process, is capable of lowering the concentrations of phosphorus in wastewater to very low levels. Blue Water in Coeur d'Alene, Idaho has licensed the patent-pending technology from the University of Idaho.

Regulatory pressure from the EPA has driven both municipal and industrial wastewater treatment plants to lower the amounts of certain water constituents they discharge to receiving waters. Phosphorus is one of the constituents facing increasing regulatory pressure.

Phosphorus is an essential nutrient in aqueous environments, where 20 parts per billion (ppb) is considered healthy. However, in excessive amounts phosphorus can lead to eutrophication. This condition is typified by rampant algae growth and subsequent water quality problems. Until now there has not been a cost-effective process for lowering phosphorus in discharged effluent to less than 500 ppb.

The Vandal-ION process is capable of lowering phosphorus to 60 ppb and below. This fall a pilot project was completed at the Moscow, Idaho wastewater treatment plant. Total phosphorus influent averaging 776 ppb was lowered to an average of 59 ppb. This result easily meets Moscow's discharge permit level of 136 ppb. Two other troublesome water quality parameters, turbidity and biological oxygen demand, were also lowered significantly.

Additional process optimization can lower the phosphorus concentrations even further. The technology is capable of reaching a non-detect (less than 10 ppb) level for phosphorus with a multi-stage system, dependent on the influent concentration.

Blue Water Technologies, Inc. was established in February 2003 to commercialize state-of-the-art water treatment technologies. Blue Water's products remove phosphorus, arsenic, selenium, and heavy metals from water and wastewater.

For more information contact
Blue Water Technologies, Inc.
1037 N. 4th Street, Suite 6
Coeur d'Alene, Idaho 83814
Telephone: 208-659-4338
Fax: 208-783-7022
Email: info@blueh2o.net
Web site: www.blueh2o.net

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This months Ask Tom! article



"Wyoming" Bentonite P Liners and Sealants

Guest article by Charles R. La
Ph.D., Bentonite Performance M



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difficult problem?

your knowledge with others and
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the Ask Tom! Column. For more
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54,000+ visitors in November !

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managers and service personnel?
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Who will see your banner on Water and Wastewater.com?

Some 2000 professionals every day - that's over 10,000 people a week. Our survey revealed that over 75% of our visitors are decision-makers, advising their employers and clients which equipment or services to purchase. They can't recommend you if they don't know about you!

"We sincerely congratulate Water and Wastewater.com on an excellent publication and wish you great success."

- Kaspar Kasparian, Atara Hydrotec

Water and Wastewater.com attracted over 850,000 page hits and 54,000+ visitors last month. Up to 70% visit regularly, from countries around the world (55% North America, 15% Europe, 15% Asia). So you are ensured a dedicated audience of colleagues who are genuinely interested in the products and services you have to offer.

More than just a banner - what do you get?

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- Our Enhanced Listing Program - FREE
- Banner rotation on +1000 web pages - FREE
- Banner rotation in our popular weekly newsletter - FREE
- Monthly email 'click-thru' reports
- Banners sized up to 468 x 60 pixels
- Fixed or animated banners (less than 30k)
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http://www.waterandwastewater.com/www_services/bannerads.htm

Help Forum : Hot Messages from the Help Forum

People post their requests for help and offer their suggestions to others in our open forum.

Mr. Brooks wants to remove dissolved hydrocarbons:

I am investigating an upgrade to our existing Dissolved Air Flotation Units. They are used to remove dissolved phase hydrocarbons from refinery wastewater.

I know there are a number of alternatives out there but I need to know what

strategic link to the precise audience interested in your products and services. Both nationally and internationally. Rates are reasonable - and results are more than satisfying!

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Action shots wanted!

Call For Photographs



This week's photo is of the floor of a bolted-steel tank while aerating piping is being installed. Columbi TecTank manufacturers bolted tanks of coated carbon steel, aluminum or stainless steel. They serve markets around the world and have tanks in 100 countries.

Submitted by Tom Renich of [Columbi TecTank](#).

Send us your photos: We would love your photo of a water or wastewater treatment "action shot" for inclusion on our home page, free of charge. Send your photograph and description to news@waterandwastewater.com

Circulation

technology has proven success at meeting the following spec:

Inflow 175 kilolitres per hour (klph)
Total Petroleum Hydrocarbons (TPH) 500 mg/l
Expected outflow TPH <10 mg/l
Hydraulic Capacity 275 klph

We are willing to investigate any technology that is proven, effective and will meet our maintainability and availability requirements.
([Click here to post a reply](#))

Thanks
Michael Brooks
BP Refinery (Kwinana) Australia
Michael.Brooks@az1.bp.com

Mr. Zhao needs an RAS pump:

As we design Return Activated Sludge (RAS) system for a WWTP upgrade and expansion project, we need a screw centrifugal or mixed pump (or other types of pumps you have for RAS application) which meets following design conditions,

1. Capacity: 29.2ML/d or 338 L/s (5357gpm), head: 5 m.
2. Dry pit type
3. Only requires slight modification (i.e. change driver sheave) to fit future use with a capacity of 35ML/d or 405 L/s (6421gpm) and head of 5.4m.

Please provide a list of your applications of screw centrifugal and/or mixed flow pumps (or other types) with same or bigger capacity and head as above.

Also, could you find out what is your minimum requirement for water submergence measured from the top of suction line in our case? Sludge chamber has an approximate dimension of 3 m (Length, where suction line tie in) and 4.4 m (width).

If you need more information, feel free to contact me by email
jack.zhao@earthtech.ca ([Click here to post a reply](#))

Thanks,
Jack Zhao
Earth Tech Canada Inc.
jack.zhao@earthtech.ca

Help Forum: Share your expertise with others in our [Help Forum](#).

This issue of Water and Wastewater Newsletter was sent to **6,938** wastewater treatment professionals the time of this mailing.

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From the Job Fair :

Project Manager Manager Wanted

Wastewater Treatment Project Manager needed for local wastewater Technology Company. Five years project management experience required. Minimum three years experience developing wastewater technologies. Experience in applied quantum mechanics a plus.

Send Resume to:

KOCH- INFINITY Water Technologies
ATTN: Project Mgr. Opening
208 South La Salle St.
Suite 1855
Chicago, IL 60604

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