

# PSI Process & Equipment



**Pumping Services, Inc.**  
An Employee Owned Company

August 2010

## PSI Newsletter

### ISSUE HIGHLIGHTS

PSI Signs up with  
Engineered  
Treatment Systems

Who is ETS ?

Pumping Services  
Inc to provide one  
day CEU training for  
NJWEA

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**Dear Readers,**

This month we are pleased to announce that PSI Process and Equipment has signed a Manufacturers' Rep agreement with **Engineered Treatment Systems** (ETS), LLC manufacturers of Ultraviolet (UV) disinfection systems. Our trading territory is Lower New York State and the Northern and Central portions of New Jersey. ETS was founded in 2005 in a joint venture with atg Technology UK, who has 20+ years in the UV industry. Part of ETS business is the pool and leisure market and has installed over 2200 UV Installations systems at over 1400 facilities across the US. The equipment is manufactured in Beaver Dam, WI to meet the needs of the US water and wastewater treatment industry.

John Corkery  
PSI Process and Equipment

### Who is ETS ?

ETS are manufacturers of UV equipment for the US water and wastewater treatment industry. All manufacturing, assembling, and testing; all spare parts and service technicians are based out of the Beaver Dam facility. Additional support office is based in Cincinnati, Ohio.

**Jon McClean**, President of ETS with a degree in physics, has been actively involved in the UV industry for over 20 years, including roles as a Managing Director for a European UV company and President of a US based UV company.

**Patrick Bollman**, P.E, in Civil and Environmental engineering has been in the engineering and UV community for 10+ years, including 9 years in the UV industry.

**Marc Scanlon**, Operations Manager, with over 20 years in the water industry with 17 of those years working with UV and ozone manufacturers. Marc heads up the applications department.

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# Spotlight on



## Drinking Water UV

ETS are prime manufacturers of both Medium Pressure, Low Pressure and Low Pressure Amalgam disinfection systems. ETS has developed a range of drinking water UV systems that comply with the requirements of the US EPA Guidance manual, and have been independently validated to demonstrate performance envelopes under a variety of operating conditions. The Long Term 2 Extended Surface Water Treatment Rule (LT2) is aimed at water supplies. The purpose of the legislation is to ensure that populations are kept safe from emerging pathogens such as Giardia and Cryptosporidium. The Stage 2 Disinfectants & Disinfection Byproducts Rule (DBP) is designed to limit the formation of several byproducts of conventional disinfection. The EPA uses the mandate of the Safe Drinking Water Act to monitor emerging contaminants, under the Unregulated Contaminant Monitoring Regulation (UMCR2). UV light is used successfully to remove Methyl-t-butyl ether (MTBE). Likewise (NDMA) is removed using UV light which is toxic and a suspected carcinogen.

UV is used as a primary disinfectant for all water-borne organisms. UV is used to photolyze contaminants. As the number of emerging pathogens increases, and as more contaminants need to be controlled, the demand for UV will grow. ETS Systems are installed in line either vertically or horizontally. Footprint is normally a key factor, as pipe galleries are usually very tight and cramped. The delivered dose is controlled by continuously measuring the inputs of flow, water transmittance, and lamp intensity. The ETS systems all use power switching to vary lamp power to optimize both power consumption and lamp life. Wipers keep the optical paths free from contamination, and a third party monitor can be inserted to verify the performance of the ETS system.



UV treatment units from a few gallons per minute to over 20 MGD in a single unit.

## Wastewater UV

UV has made tremendous gains in the last 25 years, and is now recognized as a primary method of disinfecting wastewater. All of the typical wastewater organisms are rendered nonviable by a correct dose of UV light; ETS maintains comprehensive databases of organisms and the amount of UV required to achieve 1, 2, 3 or higher log removals. Municipal wastewater does not need to be disinfected using UV light in an open channel. Open gravity flow channels suffer from many disadvantages; poor hydraulic mixing, very large footprint, expensive to build, high headloss, and vulnerable to fluctuations in flow rate. All of the ETS products are designed for insertion into a pipe, and PSI Process and Equipment Team will be pleased to demonstrate how chlorine contact tanks can be used to house a new UV installation.



ETS UV Products can be pipe installed in existing chlorine contact tanks

## NJWEA Technology Transfer Seminar September 20<sup>th</sup> 2010

Pumping Services, Inc are pleased to be providing a full day "hands on" seminar which includes four separate demonstrations below.

***"Introduction to Chemical Metering Pump Technology and Maintenance"*** Presented by Harland Pond (Grundfos) and Tim Fortner (Pumping Services, Inc.)

***"Protecting the Environment through Effective Pump Station Control"*** Presented by Jamie Saxe (Multitrode) and Bryce Parkhurst (Pumping Services, Inc.)

***"Procedures for Annual Preventive Maintenance of Submersible Pumps"*** Presented by Glen Boylan (ITT Flygt) and Martin Striefler (Pumping Services, Inc.)

***Sewerage Grinders and Progressing Cavity Pump Applications and Maintenance*** Presented by Ron Aceto (Monoflo) and Roger Parkhurst (Pumping Services, Inc.)

For more information contact; NJWEA or Tim Fortner 732.667.1831 PSI Process and Equipment.