

"The **InForMer**" IFM, Inc.'s Newsletter

Industrial Fluid Management, Inc.

EARTH DAY IS APRIL 22ND!



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The 39th Anniversary of **Earth Day** arrived on April 22, 2009. What was the purpose of Earth Day? How did it start?

The story goes that Earth Day was conceived by U.S. Senator Gaylord Nelson of Wisconsin after a trip to Santa Barbara right after that horrific oil spill off the coast in 1969. He was so outraged by what he saw that he went back to Washington and passed a bill designating April 22 as a national day to celebrate Earth. Senator Nelson first proposed the nationwide environmental protest to thrust the environment onto the national agenda. "It was a gamble", he recalls, "but it worked." The wire services carried the story from coast to coast. The response was electric. Telegrams, letters, and telephone inquiries poured in from all across the country. The American people finally had a forum to express its concern about

what was happening to the land, rivers, lakes and air—and they did so with spectacular exuberance!

How did IFM celebrate? We collected littered trash from our "adopted" 2-mile stretch of highway on State Route 6! We are proud to participate in the "Adopt A Highway Program" sponsored by the Ohio Department of Transportation.

In addition, we continue to recycle our paper, plastic, cans and cardboard for recycling. We encourage others to take part in keeping our Earth clean!



Gaylord Nelson



IFM on "trash pick up" day

Springtime means Bioaugmentation time for IFM

For most, Spring is a rebirth of everything...it's a time of renewal. The air is alive with promises of new growth, fertility, swelling buds on trees and new love. Soon there will be flowers everywhere!

For IFM, it means getting the boat out of storage and stocking up on LTM 2010 (Lagoon Treatment Microbes). Several municipalities have been using our bioaugmentation program for many years to reduce sludge volumes in

their lagoon systems. Our program consists of surveying your lagoon system, measuring for water and sludge depth and inoculating the lagoon with bacteria specifically designed to improve the waste system stability and reduce the frequency and severity of upsets. At the end of the season, results are reported and recommendations are made for the future. Some of the benefits of inoculating lagoons are improved

CBOD5, total suspended solids and ammonia discharge levels. Call Michelle or Tom for more information on our program.



Biological Maintenance for our Homes

How often are you having to pump your septic system? Hopefully, not much, but daily use of household and commercial-strength chemicals and detergents destroy the natural population of friendly bacteria that every wastewater system relies on to reduce oily and organic components. BioOne® safely, effectively and economically eliminates the resulting organic buildup by the constant greasy slime buildup and odorous residue.

BioOne® can be safely used in all septic systems, cesspools, leach and drain fields, grease traps, vehicle holding tanks, boat bilges, and all drain lines—unlike

dangerous drain-cleaning chemicals, is safe for both human handling and the environment.

BioOne® is designed to work in conjunction with professional plumbing and septic system maintenance. BioOne® will not clear a completely clogged system, repair broken pipes and mechanical defects, or degrade inorganic materials. BioOne® will maintain free-flowing systems and remedy sluggish systems.

When used in conjunction with manual drain cleaning, the active microbes colonize in the drain line and eat the gook and slime left behind. BioOne® 64 oz is sold at our

McClure facility. Each bottle contains 32 treatments, the perfect size for household use. It's stable performance-ready formulation of live vegetative cultures and it's pre-measured cap make it easy to use. Call Angie for pricing.



The Process of Ion Exchange explained

The ion exchange process percolates water through bead-like spherical resin materials (ion-exchange resins). Ions in the water are exchanged for other ions fixed to the beads. The two most common ion-exchange methods are softening and deionization.

Softening is used primarily as a pretreatment method to reduce water hardness prior to reverse osmosis (RO) processing. The softeners contain beads that exchange two sodium ions for every calcium or magnesium ion removed from the "softened" water.

Deionization (DI) beads exchange either hydrogen ions for cations or hydroxyl ions for anions. The cation exchange resins, made of styrene and divinylbenzene containing sulfonic acid groups, will exchange a hydrogen ion for any cations they encounter (e.g., Na^+ , Ca^{++} , Al^{+++}). Similarly, the anion exchange resins, made of styrene and containing quaternary ammonium groups, will exchange a hydroxyl ion for any anions (e.g., Cl^-).

The hydrogen ion from the cation exchanger unites with the hydroxyl ion of the anion exchanger to form pure water.

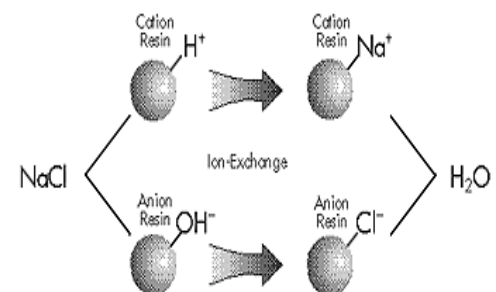
These resins may be packaged in separate bed exchangers with separate units for the cation and anion exchange beds. Or, they may be packed in mixed bed exchangers containing a mixture of both types of resins. In either case, the resin must be "regenerated" once it has exchanged all its hydrogen and/or hydroxyl ions for charged contaminants in the water. This regeneration reverses the purification process, replacing the contaminants bound to the DI resins with hydrogen and hydroxyl ions.

Our funnel/in tank regeneration procedure allows us to visually evaluate your resin. With this process, there is no combining of your resin with other resins. We are extremely proud of being one of the only 'in tank' regeneration facilities in the region. We offer these high quality services to you and invite you to visit our plant.



Typical Applications Include:

- ◆ Spot Free Rinse
- ◆ Coolant Make Up
- ◆ Temporary High Purity Water
- ◆ Pure Makeup for Analyzer
- ◆ Process Stream Makeup
- ◆ Post Reverse Osmosis Treatment
- ◆ Laboratory





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About Us

Established in 1991, Industrial Fluid Management, Inc. pioneered the use of selective bacterial cultures to augment wastewater treatment. A wholly owned subsidiary of Poggemeyer Design Group, IFM has since developed into a full service Water Cycle Technologies Company. Our "Can Do" philosophy when addressing our customers' needs has earned us the reputation of a company that provides innovative, efficient and economic solutions to the varied and sometimes complex water and wastewater issues facing industry today.

Tom Horn is promoted to VP

Tom was promoted to Vice President of Industrial Fluid Management (IFM) in January of 2009.

Tom joined IFM in August of 1998 and served as Technical Director, overseeing plant operations and completing design work on unique wastewater treatment systems. Richard Bennett, President of IFM stated, "Tom is a natural leader and has developed and implemented programs and procedures that have set IFM apart from our competitors".

He was instrumental in IFM being granted a 365 day/year operation contract with a large state agency and provided the design/build process for a major solar

manufacturer in our region. He is a member of several professional organizations, including the Water Environment Federation and Ohio Water Environment Association executive committee and lab analyst committee, serving as secretary and chairperson.

Tom earned a Bachelor of Science in Environmental Science, graduating Magna Cum Laude from Defiance College. He also holds an EPA Class III license in both water and wastewater, as well as operator licenses in Michigan.

Please join us in congratulating Tom for his success!