

Bionetix® Newsletter

August 2017

Interest In Natural Bionetix® Solutions Grows In Latin America

ISSA/INTERCLEAN Latin America (February)

In February, Bionetix® encountered strong interest in natural biological solutions at the ISSA/INTERCLEAN convention in Mexico City. At the same time, Bionetix® found an excellent trade show partner in Mexican distributor Quemwalk. Over a busy three-day show, the Bionetix®/Quemwalk team was able to share biological solutions with many people from Mexico and other Latin American countries, including Argentina and Ecuador.

Bionetix®/Quemwalk was one of only two booths presenting biological options at the show, despite the increasing demand for natural biological products among cleaning product distributors and chemical companies who visited the booth. “They’re very, very interested in our products,” said Oscar Caceres (Bionetix® Inside Sales Rep). “The response was very positive . . . and I thought we got excellent results from it.”

Quemwalk was also thrilled with the response, did a great job working the booth, and was already starting to plan ahead for next year’s booth with Bionetix®.

LASM 2017 (March/April)

As a subsidiary of Cortec® Corporation, Bionetix® had a chance to present to distributors from Argentina, Brazil, Chile, Colombia, Ecuador, and Peru at Cortec’s Latin America Sales Meeting (LASM) March 31st-April 1st in Lima, Peru. In addition to getting an update on Cortec’s corrosion inhibiting activities and strategies, the distributors were introduced to Bionetix® International’s natural waste treatment, cleanup, and agriculture solutions. Oscar Caceres, who gave the presentation, reported a strong attendee interest in learning more.

AQUA-FEED Trial (July-Present)

Bionetix® recently sent samples of AQUA-FEED and BCP54 to Brazil where they will be evaluated in the treatment of ponds and fish. The aquaculture client is interested in implementing the products and wants to see how the trial will affect the alkalinity, pH, ammonia levels, nitrite levels, and overall cleanliness of the ponds.

For more information about “Bionetix® International Natural Aquaculture Solutions,” please visit the following link:
http://www.bionetix-international.com/products/brochure/Bionetix_Aquaculture_Brochure.pdf





Spreading Natural Solutions In Industry Magazines

This year, Bionetix® products have been featured in four different industry magazines!

Taking the Natural Route for VOC Abatement and Waste Treatment

Finding a safe way to eliminate volatile organic compounds (VOCs) is an important environmental and industrial concern. VOCs are present in all contaminated soils and in wastewater associated with the plastics, food, rubber, paint, furniture, and pharmaceutical industries. High levels of VOC can pose health hazards, increase costs of waste treatment and cleanup, or simply create bad odors. However, it is possible to significantly reduce these problems by using bioremediation to naturally and more affordably overcome the degradation of VOCs.

Since 1968, Bionetix International has been providing bioremediation products that degrade target waste substances through natural biological processes. These natural products contain non-pathogenic microorganisms that target and degrade specific pollutants. In the process of multiplying or destroying contaminants, the microorganisms receive energy and carbon that help them grow and reproduce. They release harmless CO₂ and water into the environment as a byproduct. While liquid microorganisms naturally occur in various soil and water treatment environments, the introduction of additional microorganisms and nutrients accelerates the natural degradation process. It is useful in a variety of common industrial and environmental situations.

Soil Bioremediation

Soil contamination is a widespread problem caused by leaks or spills during hydrocarbon production, transportation, storage, or use. VOCs contained in soil or gas spills include BTEX (benzene, toluene, ethyl benzene, xylene), which pollute the environment and is potentially harmful to human health. Fortunately, hydrocarbon contaminants such as BTEX are susceptible to natural microbial activity and have shown a positive response to bioremediation.

In one case, soil contaminant concentration dropped dramatically when Bionetix International's Spill Kit, which includes two products, BCP35S and BIOSURF, was tested on polluted soil from an oil field in Canada. The soil was tested to track its health. Initially, the soil had a 2000-3000 mg/kg concentration of crude oil. This dropped to <100 mg/kg after the contaminated soil was treated for three to five weeks with the two products. The main function of



oil spills, fortunately, hydrocarbon contaminants are susceptible to natural microbial activity and have shown a positive response to bioremediation.

A two page article entitled **“Taking the Natural Route for VOC Abatement and Waste Treatment”** (https://www.cortecvci.com/whats_new/announcements/Pollution%20Equipment-03-17.pdf) was published in the February/March edition of *Pollution Equipment News* magazine, a publication that has

been “providing environmental solutions since 1968.” The article shares how Bionetix® products BCP35S and BIOSURF can help with bioremediation of soils contaminated with BTEX from oil or gas spills. Other products such as BCP95, BCP60, and STIMULUS help with various high VOC or bad odor problems in wastewater.

In May, *Portable Restroom Operator* featured odor control with Porta-Treat, “a quick-acting treatment that deodorizes portable restrooms and holding tanks, leaving only a fresh fragrance.”

Fizzy-Tab made the June Product Focus for *Pumper* magazine as “a multipurpose natural cleaner that con-

trols odor and helps maintain healthy grease traps and septic systems.” Its diverse microbiological organisms are designed to activate digestion of solid waste and reduce sludge buildup in the bottom of tanks.

Macro N/P appeared in the June Product News of *Treatment Plant Operator*. Its function is to nourish helpful bacteria in wastewater to enhance biological wastewater treatment and soil bioremediation processes. This macronutrient product was also featured on the front page of the June/July *Pollution Equipment News!*

June/July 2017

Water Quality Sonde for In-Situ Remediation and Low-Flow Sampling

Use the Aqua TRACER 600 Multiparameter Sonde to determine radius-of-influence, detect breakthrough, and monitor pressure fronts in real-time throughout your injection tests. No need for multiple probes or to manage multiple sets of water level and water quality data. Internal data logging, 9+ month battery life, and anti-resistant sensors ensure stable performance in harsh conditions. Email data during injection to off-site stakeholders via Internal Bluetooth connection to the VUSU Mobile App. Use the app-base controls to streamline low-flow sampling events or long-term monitoring projects. Available for rent or purchase.

— In-Situ, 800/446-7488, www.in-situ.com/pollution_equipment
www.in-situ.com

Macronutrients for Wastewater Treatment and Soil Bioremediation

Bionetix® International offers a solution to nutrient-deficient soil and wastewater with its Macro N/P blend of nitrogen and phosphorus. This combination of macronutrients enhances biological wastewater treatment processes and soil bioremediation by helping existing bacteria, including those introduced as supplements, to grow, reproduce, and stimulate the bioremediation cycle. By using bioremediation techniques such as the addition of Macro N/P, waste treatment and reclamation crews can speed environmental cleanup without the use of harmful chemicals — **Bionetix International**, 514/457-2914, www.bionetix-international.com
www.bionetix-international.com

Soil Moisture Probe System

Insert an access tube into the soil, insert the PR2 Profile Probe and get an instantaneous reading via handheld readout device, or connect the PR2 to a data logger and leave the system to record soil moisture changes over time. The PR2 soil moisture probe is built around patented sensing technology which provides unprecedented performance in all soil types, with minimal influence from either salinity or temperature. The PR2/4 model measures soil moisture at 4 depths down to 40 cm or the PR2/6 measures at 6 depths down to 100 cm.

— Dynamax Inc., 281-564-5100, www.dynamax.com
www.dynamax.com

AD/Biogas mixer

Motors on externally-mounted systems that are also for easier to maintain, may be bigger at 18.5 kW, but only have to run for 10-15 minutes per hour to achieve the same or better results. Even at 15 minutes per hour, the energy usage is just 110 kWh hours per day, compared to 180 kW. This is on just one mixer/pump, so the energy savings are substantial — **Landia**, www.landiainc.com
www.landiainc.com

Controllers & Wireless Systems

The manufacturer of Data Acquisition, SCADA (Supervisory Control and Data Acquisition) and Telemetry systems throughout the United States, Canada and Mexico. The Telemetry Control Systems and E-Wave™ Wireless Switches constantly achieve an economical and practical alternative to sending operators or service personnel to remote sites for visual inspections, manual adjustments or data collection. The Telemetry control systems reduce operating and/or maintenance costs, improve site functionality and help to meet compliance issues.

— EPG Companies Inc. 800/443-7426, www.epgco.com
www.epgco.com

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Sludge Treatment - Bionetix International Fizzy-Tab

Play To: From Bionetix International's a multipurpose, low-toxicity odor control that controls odor and helps maintain healthy grease traps and septic systems. It contains diverse microbiological organisms designed to activate digestion of solid waste and reduce sludge buildup in the bottom of tanks. Naturally occurring bacteria and enzymes (cellulase, lipase, protease and amylase) in the tablets assist in the breakdown of plastic, oil, grease and other hard-to-digest materials like waste on tank bottoms. They can be applied to tanks or directly to waste tanks to reduce sludge buildup, reduce tank level, prevent drain clogging, reduce pumping frequency and lower the risk of a localized fire, with a simultaneously increasing clarity of pollution. They come in 5.6kg (12.3lb) and 11.3kg (25.1lb) bags. They contain chemical products and do not contain plastic or metal bits. They should be added monthly to keep the waste in grease traps/septic tanks and functioning. 514/457-2914, www.bionetix-international.com.

FIZZY-TAB

WORK FASTER AND SAFER WITH WIRELESS HEADSETS

Related Stories

Drinking Water Systems and Maintenance

Portable Sanitation and Spill Kits

POPULAR STORIES



In July, Bionetix® was again featured in *Portable Restroom Operator*, this time with Eco-Scent as the focus. Eco-Scent is a biodegradable, free-flowing liquid odor eliminator formulated for easy application directly to odor-emitting areas. It works by forming a complex with odor-causing organic compounds, yielding a lower concentration of these organic molecules and reducing odor.



Recent Product Highlights

Bionetix® International carries a variety of natural biological options for different applications. Bionetix® highlighted three of these applications in particular—waste treatment, soil bioremediation, and aquaculture—in greater depth in the last six months.

Macro N/P: Macronutrients for Wastewater Treatment and Soil Bioremediation



Bioremediation is an important process of relying on natural microorganisms to degrade soil and wastewater pollutants into harmless byproducts. Often, these microorganisms are already present to some extent in wastewater or contaminated soil. However, the degradation process can be accelerated by adding extra doses of the microorganisms, along with macronutrients that nourish and help the organisms grow and thrive for speedier degradation of pollutants.

One of these macronutrient products is Macro N/P, a free-flowing powder with the optimal 5:1 nitrogen/phosphorus ratio for nourishing helpful bacteria in wastewater. These two nutrients are often deficient in wastewater and soil, making it more difficult for helpful microorganisms to flourish and accomplish natural bioremediation. By adding Macro N/P, clean-up crews can help existing or supplemental bacteria to grow, reproduce, and stimulate the bioremediation cycle.

Macro N/P can be used to speed the bioremediation process in a variety of situations:

- Environmental Cleanup – Bioremediation
- Soil Reclamation
- Groundwater Treatment
- Oil Spill Cleanup
- Wastewater Treatment
- Sludge and Manure Treatment
- Lagoons and Ponds

Aqua-Feed: All-Natural Feed Additive for Healthier Aquatic Species



Bionetix® also offers natural biological options for boosting the health of aquatic species. This comes after a decade of serious loss in the aquaculture industry.

Shrimp aquaculture in particular has been severely impacted due to diseases including white spot, yellow head, and vibriosis. Cultured shrimp are also vulnerable to mass mortality because of pathogenic yeast, harmful bacteria, and viral infections. Studies indicate that a deteriorating aquaculture environment is a leading cause of declining shrimp immunity, while boosting the immune mechanism can be beneficial against mass shrimp mortality caused by pathogenic infections.

By adding AQUA-FEED to shrimp and fish feed, aquatic farmers may upgrade the quality of their feed and significantly reduce serious diseases such as white spot, yellow head, and the risk of vibriosis to humans after consumption. AQUA-FEED is rich in β glucans, mannanoligosaccharides (MOS), and other key ingredients including probiotics for the health of aquatic species.

Bio-converter technology such as AQUA-FEED also improves aquatic life by helping with the cleanliness of aquaculture ponds. Contamination with bio-mass, shells, fecal matter, and other materials works to diminish oxygen levels and produce disease-promoting methane, ammonia, and hydrogen sulfide. AQUA-FEED promotes healthy aerobic conditions that lead to the reduction of these substances and conversion of organic materials mainly into water and carbon dioxide.

The benefits of AQUA-FEED can be enhanced in conjunction with BCP54, which helps with pond clarity. For example, a shrimp farm in Asia that used AQUA-FEED

and BCP54 found that these natural treatments resulted in healthier shrimp, a significant survival rate, and increased average gain.

Solutions like these are excellent alternatives to antibiotics and harsh chemicals, resulting in healthier fish, shrimp, and aquatic species that can be consumed with greater peace of mind.

Celebrating Canada Day



Located in Sainte-Anne-de-Bellevue in Quebec, Canada, Bionetix® International celebrated Canada Day on July 1st with a BBQ picnic lunch for employees. This year also marked the country's 150th Birthday.



Trade Shows

ISSA/INTERCLEAN
SEPTEMBER 11-14, 2017
LAS VEGAS, NV
WWW.ISSA.COM



AWT
SEPTEMBER 13-16, 2017
GRAND RAPIDS, MI
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