

ONION ENTERPRISES

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BioRemediation of Chlorinated and Recalcitrant Compounds

BioOX

The Next Generation of Remediation Products

Biotechnology for Environmental Cleanup

The Bioreactors can be used to consume and destroy pollution.

An over view of the products are as follows:

- BioStack: The first portable, turn key, indoor air cleaning plant for complete destruction of air pollution
- BioOX: a general product for oxidative destruction of organic compounds or materials in the air and water.
- BioSorb: A cartridge-based biosorber for the removal of heavy metals from the water and air.
- Solv-Ex: a solvent extraction system to recover clean oils, water and solids wet solids and sludge

OE can provide bench scale test of your waste stream at a very competitive price. OE will can also provide rental systems which allows you to experience the ease and stability of our reactors.

OE provides solutions to your treatment needs. At OE we THINK about the problem before we suggest a technology. Unlike many remediation companies that

OE is introducing several new Technologies

OE BIOREACTORS are used to treat Chlorinated & Non Chlorinated Hydrocarbons, and MTBE in both water and air.

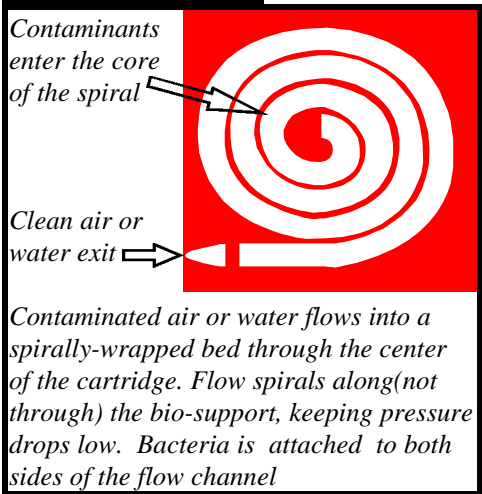
We have over eighteen years of experience in providing Bioreactors.

Our **Proprietary Technology** in

biotechnology and biocatalysts are the strength behind our products.. The technology involves the immobilization of biologically active material such as enzymes, organelles and cells. The power behind the biocatalyst is demonstrated by its:

- exceptional resistance to contamination
- incredible long life
- ability to flourish in high densities

The technology consists of **cartridges** of spirally-wound Microporous plastic sheets on which pre-acclimated bacteria are uniformly immobilized. These plastic sheets make up the core of the bioreactors. The spirally-wound configuration allows large surface area for biodegradation in a small space. These cartridges are manufactured in sizes ranging from 50 ft² to 500 ft² per pass for immobilization of quantities of bacteria ranging from 500 grams to 5000 grams per cartridge. Yet they only measure from 8 to 37 inches in diameter and are from 18



have only one technology to offer, OE offers the technology that best fits your problem. Our staff is composed of former engineering consultants & scientists.

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