

Announcements

Applied Bioremediation '93, Sheraton Fairfield Hotel, Fairfield, New Jersey, USA, October 25–26, 1993

Aims and Scope

Bioremediation — an environmentally friendly, cost-effective method for cleaning up hazardous, petroleum and industrial wastes — is the subject of abovementioned international conference.

According to the U.S. Environmental Protection Agency, there are over 20,000 waste sites in the United States requiring clean-up. This is in addition to the 200 million tons of new industrial and hazardous waste produced each year. Bioremediation, a proven technology using microorganisms to clean up contaminated soils and groundwater, can successfully treat many of these wastes.

Applied Bioremediation '93 will highlight the use of bioprocesses for field level treatment of:

- soil contaminants and wastes through soil heaps, land farming, and composting
- slurry phase wastes, utilizing batch and continuous processes
- liquid phase wastes, such as activated sludge and groundwater
- vapor phase contaminants through the use of biofilters

In addition, the program will cover: oil spill treatments, specialized biotreatment systems, equipment that aids bioremediation, as well as important cost and safety comparisons to other remediation methods. Also highlighted will be the regulatory environment affecting waste biotreatment and the exciting business outlook for the \$200 million bioremediation industry over the next decade.

“The key objective of *Applied Bioremediation '93* is to help all attendees better understand the growing use and practical application of bioremediation at the full scale level and the role this innovative technology is playing in remedial strategies,” says Katherine Devine, publisher of *Biotreatment News* and Chair of the Conference Advisory Board.

Serving on the Conference Advisory Board are: Ronald J. Hicks, Ph.D., Director of Bioremediation Technologies, Groundwater Technology, Inc.; Jonathan M. Greene, P.E., Senior Project Manager, ENSR Consulting and

Engineering; and Gunter Brox, P.E., Product Manager, EIMCO Process Equipment Company.

Audience

Conference attendees and exhibitors will include representatives of petroleum and petrochemical companies; chemical and pharmaceutical manufacturers, food, plastics and industrial processors; waste remediation firms; engineering and consulting companies; research and testing laboratories; government agencies; and equipment suppliers.

Contact

Additional information and a complete conference brochure detailing the speakers and session topics is available by contacting: Jennifer Winch or Ernie Card, Intertech Conferences, 411 US Route One, Portland, ME 04105 USA; Tel. (207)781-9800, Fax (207)781-2150.

Chemical Oxidation Solutions for Waste and Wastewater Problems, Wyndham Franklin Plaza Hotel, Philadelphia, PA, November 3-4, 1993

Aims and Scope

The conference will address key subjects such as: (1) the safe use of powerful chemical oxidants to treat toxic, inhibitory or refractory wastes; (2) which chemical oxidants work best for specific compounds and conditions; and (3) how the latest Federal and State environmental regulations are driving this technology ahead. The Conference Chairman is Patrick T. Donnelly, Manager of Application Research and Technical Service at FMC Corporation in Princeton, New Jersey.

Additional options are biological or chemical oxidation. These processes completely break down the waste into simple, benign compounds. Of these two, biological oxidation is the most widely used and economically more attractive process. However, only chemical oxidation is capable of treating wastes containing compounds that are toxic, refractory or inhibitory to common microorganisms.

Today, powerful chemical oxidants such as hydrogen peroxide, chlorine dioxide or ozone are increasingly used for treating toxic and refractory waste

streams because of their versatility and selectivity. These oxidants also are often used as pre-treatments or post-treatments in tandem with biological treatment.

At this meeting actual case histories of successful clean-ups of hard-to-degrade compounds such as amines, aldehydes, hydrocarbons, hydroquinones, mercaptans, phenols, sulfur compounds, chlorine, cyanides, and chromium will be presented. Technical and economic evaluations will be made for H_2O_2 (and activated H_2O_2), chlorine, chlorine dioxide, permanganate and ozone. There will also be a number of table top exhibits, showing the latest developments in chemical oxidants, process design, equipment and instrumentation from leading vendors.

Some of the topics the conference will specifically deal with include:

- What specific compounds can best be treated by H_2O_2 ?, ozone?, chlorine dioxide? $H_2O_2 + UV$?, $H_2O_2 + ozone$?, permanganate?
- Which oxidants are often used as bio-enhancers and why?
- What process design "tricks" allow major cost savings with oxidants?
- What new federal/state regulations are coming that virtually assure greater use of powerful oxidizing agents?

Other talks will cover innovations in process design and monitoring, ways to combine biological and chemical oxidation processes and how the economics of oxidants compare to incineration, activated carbon and other competitive treatments.

Audience

Conference attendees and exhibitors will include representatives of petroleum and petrochemical companies; chemical and pharmaceutical manufacturers, food, plastics and industrial processors; waste remediation firms; engineering and consulting companies; research and testing laboratories; government agencies; and equipment suppliers.

Delegates will come away with a complete picture of the advantages and disadvantages of chemical oxidation of chemical, refinery, pharmaceutical, steel and municipal wastes and practical ways to use this technology to solve immediate problems. There also will be ample opportunity to network with speakers and fellow executives from around the world.

Contact

For a descriptive brochure giving complete details of this meeting, contact Jennifer Winch, or Emie Card, Intertech Conferences, 411 US Route One, Portland, Maine 04105 USA; Tel. (207)781-9800, Fax (207)781-2150.