2019 Battelle Bioremediation Symposium technical presentations and posters

Haley & Aldrich experts presented their research at Battelle's 2019 Bioremediation Symposium (the Fifth International Symposium on Bioremediation and Sustainable Environmental Technologies), held this April in Baltimore, Maryland. Our involvement included several platform presentations and technical posters as well as a panelist, on topics ranging from 1,4-dioxane to CVOCs. Scroll down and click on any of the thumbnail images to view the presentations and posters.

Applying compound-specific isotope analysis to sites with low concentrations of 1,4-dioxane

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Katharine North Morrison, Peter Bennett & Min-Ying (Jacob) Chu (Haley & Aldrich)
Ramon Aravena and Humam El Mugammar (University of Waterloo)
Christy Smith and Michael Hyman (North Carolina State University)
Michael Nickelsen (ECT2)

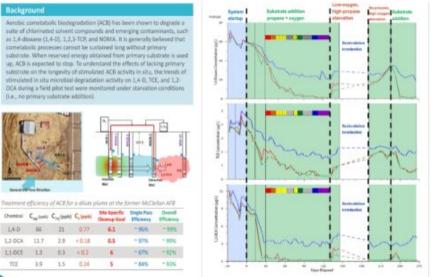


Insights into variability of cometabolic degradation kinetics of 1,4-dioxane and co-contaminants under prolonged starvation conditions



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Min-Ying Jacob Chu Haley & Aldrich, Inc.

- conditions of low-coygen or no-propane-addition conditions. When oxyger became available, 1,2-DCA was degraded quickly.
- Some TCE degradation was observed over the period of 3 months under both starvation conditions. More oxygen during the no-propane-starvation period did
- 1,4-D degradation was affected by the low-oxygen conditions. The no-propane-starvation conditions eventually resulted in a complete loss of 1,4-D degradation

ossible explanations of the observations

Low-oxygen, high-propane-concentration conditions:

No-propane, high-oxygen starvation conditions:

- Starvation may enhance expression of monopagerases (R. jostii RHAL and PrMO). Some ACB bacteria may use intracellular storage compounds to sustain

Stable carbon and hydrogen isotope ratios for assessing fate and transport of 1,4-dioxane

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5th International Symposium on Bioremediation & Sustainable Environmental Technologies Baltimore, MD. April 15-18, 2019



Use of MBTs for decision-making following thermal remedy



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Elizabeth Bishop



Rapidly reducing chlorinated solvents in multiple media (without upsetting the neighbors!)

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