

# Emerging In-Situ NAPL Clean-up Technologies

**Jim Mueller** - Provectus Environmental Products, Inc.

## “Reasons and Technology for Controlling Excessive Methanogenesis during Remedial Actions: Case Studies and Remedial Alternatives”

At many groundwater remediation sites, excessive production of methane has been observed following the addition of organic hydrogen donors such as (emulsified) oils/lecithin, sugars and conventional ISCR reagents. This is because methanogens are commonly the most ubiquitous indigenous microbes in anoxic aquifer settings. And given that methanogens replicate in 1 to 2 hours, they often bloom and dominate following the addition of organic hydrogen donors, thereby liberating large amounts of methane gas. There are at least three important consequences of this response: Come learn the consequences of this response in addition to the answers to these questions: What is the problem with Methane? How can we control methanogens? and What are the cost/benefit analyses?

[Jim Mueller Biography Click Here](#)

**Larry Kinsman** - ORIN

## BAM-Bioavailable Absorbent Media

- Immediate clean up of groundwater through absorption
- Effective on wide range of hydrocarbons, chlorinated solvents, and some heavy metals
- Absorbed contaminants are treated biologically, and can be additionally treated through oxidation or chemical reduction
- Long lasting treatment with no additional costs after initial emplacement

[Larry Kinsman Biography Click Here](#)

**Wednesday, April 6, 2016**

**5:30 p.m. – 9:00 p.m.**

**Cleary University, Johnson Center**

**3725 Cleary Drive, Howell**

*Sponsored by:*



## Schedule of Events:

5:30 p.m. – 6:30 p.m. – Registration and Cocktail Reception

6:30 p.m. – 7:30 p.m. – Dinner

7:30 p.m. – 9:00 p.m. – Presentation Followed by Questions

# Registration Form

April 6, 2016

Please fill out and return to: MAEP  
P.O. Box 695, Pinckney, MI 48169 • Phone: 734.498.2838 • Fax: 734.498.8415



## Registration Form:

Name \_\_\_\_\_

Company \_\_\_\_\_

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Food Allergy Restrictions: \_\_\_\_\_

### Early Registration:

- \$55.00 – MAEP Members
- \$40.00 – MAEP Student Members
- \$80.00 – Non-MAEP Members

### Late Registration - (Received after March 30, 2016)

- \$70.00 – MAEP Members
- \$55.00 – MAEP Student Members
- \$95.00 – Non-MAEP Members

**Deadline for cancellation is Wednesday, March 30, 2016)**

Make check payable to MAEP and mail to:  
Cheryl Anne Farmer, MAEP  
P.O. Box 695  
Pinckney, MI 48169  
Telephone: 734.498.2838 • Fax: 734.498.8415  
Email: [admin@maep.org](mailto:admin@maep.org)

**Register Online at [www.maep.org](http://www.maep.org)**

(Join MAEP and apply \$25 toward membership dues.)

### Become a Member:

- \$10.00 – Student
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