



# Association of Engineering Geologists NORTH CENTRAL SECTION

"Serving Professionals in Engineering, Environmental and Groundwater Geology Since 1957"

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## AEG DINNER MEETING

**September 17, 2002**  
**Greek Islands Restaurant**  
**300 East 22nd Street**  
**Lombard, IL 60148**  
**(630) 932-4545**

**PROGRAM TOPIC:**  
**"Next Generation Dissolved Oxygen  
Technology"**

**SPEAKER:**  
**Jerry Kellgren, Ch.E**  
**O<sub>2</sub>Tube Technology, Inc.**

**WHEN:** Tuesday, September 17

Social Hour	5:30
Meal	6:30
Program	7:30

### COST:

Member:	\$30.00
Non-members:	\$35.00
Students:	\$15.00

(cash or check payable to AEG North Central)

### RSVP by Friday, September 13 to:

Rori Green  
Phone: (312) 831-3818  
Email: [rori.l.green@mwhglobal.com](mailto:rori.l.green@mwhglobal.com)

## Synopsis

The O<sub>2</sub>Tube System patent pending enhances the remediation of organic contaminants in groundwater, saturated soil and contamination within the capillary fringe. The technology involves separating pure oxygen bubbles from water molecules on the cell plates. The bubbles of pure oxygen are swept off the cell plates by the flow generated by the O<sub>2</sub>Tube pneumatic draft pump, where they dissolve into the groundwater. Dissolved oxygen in the groundwater is utilized by naturally occurring aerobic bacteria to degrade many organic contaminants to carbon dioxide and water. Additionally, during formation of oxygen, hydroxyl radicals are continuously traveling between the cathode and anode. Hydroxyl radicals have the ability to chemically oxidize organic molecules so they too can be broken down to carbon dioxide and water.

Jerry Kellgren is the inventor of the O<sub>2</sub>Tube System. He is an in-situ bioremediation pioneer in the State of Illinois, having designed and managed the first in-situ bioremediation site in the State, closed under the IEPA LUST Fund alternative technology program in 1992. He has more than 15 years of experience in project and process management, including making contributions to pilot studies, site installation and treatment process development. He has also been involved in aerosol development and bio-chemical handling and processing. Jerry received his degree in Chemical Engineering from the Illinois Institute of Technology.



Electrolytic Cells

Control Panel

Air Panel

## The O<sub>2</sub>Tube System

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