

## ***E. coli* Detection in Beach Water Samples**

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### **Registration**

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- Fee: \$30 per site, *includes program and a set of three CDs.*
- Registration Deadline: May 24, 2006
- Register online at:  
<http://www.nltn.org/courses>  
*If you have difficulty with the online registration process, please call 240-485-2727 between 8:00 a.m. and 4:30 p.m. or e-mail registrar@aphl.org.*
- Upon receipt of your registration, a confirmation letter will be sent by email to registered site facilitators.
- *For questions regarding program content, please contact the NLTN Chicago Office, by e-mail at [mwoffice@nltn.org](mailto:mwoffice@nltn.org) or by phone at 312.793.3306.*

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### **Special Needs**

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In compliance with the Americans with Disabilities Act (ADA), individuals requiring special accommodations should notify the NLTN office at 312.793.3306 at least two weeks prior to the workshop.

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### **Continuing Education Credit**

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Continuing education credits will be provided.

510-011-06

## ***E. coli* Detection in Beach Water Samples**



**Thursday, June 8, 2006**

**Audio conference**

**1:00 p.m.–2:00 p.m. ET**

*Sponsored by*

**Wisconsin State  
Laboratory of Hygiene,**

**Minnesota  
Department of Health**

**And  
National Laboratory  
Training Network**



## ***E. coli* Detection in Beach Water Samples**

### **Description**

Waterborne disease is a significant public health threat worldwide. The *E. coli* bacterium is an effective indicator for use in assessing risk of waterborne diseases. In this program, you will learn how to perform a quantitative analysis for *E. coli* in beach water, using commercially available products for the enzyme substrate, MPN method. This method provides a relatively easy and effective means of quantitating *E. coli* in beach water. Quality control protocols will also be discussed.

To complement the audio-teleconference, each site registration will include a set of three CDs for use in your laboratory: *Collecting Beach Water Samples for E. coli*, *E. coli Detection in Beach Water Samples* and *Lab Resources for E. coli Detection in Beach Water Samples*. These educational resources were developed through a joint project of the Minnesota Department of Health and the Wisconsin State Laboratory of Hygiene.

### **Objectives**

At the conclusion of this program, the participants will be able to:

- Explain the correlation between water quality and public health.
- Describe the role of indicator bacteria in detecting the risk of waterborne disease.
- Describe the Colilert® / Colilert-18® MPN method for measuring *E. coli* concentrations.
- List quality control requirements for the *E. coli* method.

### **Agenda**

**Thursday, June 8, 2006 1:00 p.m. - 2:00 p.m. ET**

- 1:00 p.m. Overview of Water Quality and Public Health: Drinking vs. Recreational Water
- 1:05 p.m. Indicators of Waterborne Pathogens
- 1:10 p.m. Overview of *E. coli* Quantitation Method
- 1:20 p.m. Colilert® and Colilert-18® Enzymatic Substrate MPN Method
- 1:35 p.m. Quality Control Protocols for *E. coli* Detection
- 1:45 p.m. Question and Answer Session
- 2:00 p.m. Adjourn

### **Audience**

This basic-level program is appropriate for laboratory analysts responsible for the testing of beach water samples, local public health department officials, public health professionals, water treatment facility personnel and waste water treatment facility personnel involved with or interested in water quality.



### **Faculty**

**Archie Degnan, M.S.**  
Advanced Microbiologist  
Environmental Health Division  
Wisconsin State Laboratory of Hygiene  
Madison, Wisconsin

### **Audio Conference Information**

Audio conferences allow you to participate in programs at your facility. Participation is easy.

Designate a site representative who will be responsible for the registration of your facility and register your facility by following the directions under the registration section of this brochure.

Site representatives will download and duplicate the presentation handouts from the website. The website address will be provided to the site representative prior to the audio conference.

On the audio conference day, call into the toll free bridge number.

After the audio conference, each participant will complete an online evaluation form and can elect to receive continuing education credit. Site representatives will be sent instructions for participants to access and complete the online evaluation forms.

***The National Laboratory Training Network  
is a training system sponsored by the  
Association of Public Health Laboratories  
(APHL) and The Centers for Disease  
Control and Prevention (CDC).***

**[www.nltn.org](http://www.nltn.org)**