

MICROBIAL SOURCE TRACKING WORKSHOP



September 14, 2007 Chicago, IL

Coordinated by Purdue University in conjunction with
the U.S Environmental Protection Agency (EPA) Region 5



WORKSHOP LOCATION

This workshop will be held at:
Ralph Metcalfe Federal building
U.S. EPA Region 5's Office
77 W. Jackson Blvd.
Chicago, IL 60604

WORKSHOP OVERVIEW

There is an increased concern about the health of our water bodies. Fecal contamination in water and soil has been studied intensively in the past years. Knowing the source of the contamination is very important as it will provide means to improve conditions by implementing best management practices.

The purpose of this workshop is to discuss the applications of Microbial Source Tracking (MST) for pathogen detection to help increase the health of our water bodies (beaches) by decreasing the numbers of E.coli and possibly other enteric organisms (pathogens).

WORKSHOP TOPICS

This workshop will focus on MST methods and applications

Pathogens in the Environment

This session will discuss the concept of pathogens in the environment including information on fecal pollution, pathogen and indicator numbers and treatment effects. Also the survival of pathogens and indicators and the problems of microbial contamination in the environment will be discussed as well as their effect on human health.

Methods for Pathogen Detection

This section will discuss the advantages and limitations of available molecular methods, the development of sampling strategies and key issues for the proper identification of E. coli and pathogenic bacteria.

Microbial Source Tracking

This section will introduce MST concepts, benefits and applications. Available MST methodology is usually divided in two groups: library dependent methods and library independent methods. Speakers will discuss the different methodology as well as cost, effectiveness and pro and cons of each method. This section will close with a discussion of case study.

WORKSHOP SPEAKERS

Dr. Ron Turco
EPI-Net
Purdue University

Rebecca Bushon
U.S Geological Survey
Columbus, OH

Jorge Santo Domingo
U.S Environmental Protection Agency
Cincinnati, OH

Von Sigler
Department of Earth, Ecological and Environmental Sciences
Toledo University

Mike Sadowsky
Department of Soil Water and Climate (SWAC)
University of Minnesota

Julie Kinzelman
Racine Health Department
Racine, WI



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REGISTRATION

Registration will be required for this workshop in order to provide adequate quantity of food and workshop materials, and will be accepted in a first-come, first-served basis. There are no fees associated with this workshop.

How to register

Register ONLINE via the EPI-Net website at:

<http://www.epi-net.org/eng/registration.html>

Please register by **July 31st, 2007**

INTENDED AUDIENCE

This workshop is design for professionals in the area of water protection, particularly those working on the areas related to health and water.

- Consultants
- Government officials
- Water scientists
- Ecologists
- Environmental Scientist
- Beach coordinators
- Beach managers
- Others in related areas

HOTEL ACCOMMODATIONS

Several hotel establishments are available in the Chicago area. Participants are responsible for making their own hotel reservations. Please access the following link for hotels near U.S. EPA Region 5

<http://epa.gov/region5/visitor/chicago.htm#hotels>

PARKING

There is no parking at the Ralph Metcalfe Federal building (U.S. EPA Region 5's Office). Parking establishments can be found near the Federal building, the closest one is located near the south end of the building.

<http://epa.gov/region5/visitor/pdfs/QwikwithParking.pdf>

MEETING AGENDA

Registration for the workshop will start at 8:00 a.m. The workshop will run from 8:30 a.m. to 4:00 p.m. Workshop notebook materials will be provided.

The event will include a product showcase

SPONSORS



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CONTACT INFORMATION

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