



Great Lakes Beach Association Annual Meeting
3rd Annual Meeting
In conjunction with Lake Michigan: State of the Lake '03 Conference
Muskegon, Michigan



October 21, 2003

5:00 pm – 7:00 pm Poster Session and Reception at the GVSU Lake Michigan Center
740 W. Shoreline Drive, Muskegon, Michigan

October 22, 2003

Annual meeting, oral presentations and posters on display at the Holiday Inn, Muskegon Harbor, 939 Third Street, Muskegon, Michigan.

8:00 am - 8:15 am **Welcome & Overview**

8:15 am - 8:45 am **A National Summary of State Beach Programs under the BEACH Act**
Charles Kovatch, U.S. Environmental Protection Agency

8:45 am - 9:15 am **Report for U. S. Environmental Protection Agency's Great Lakes Beach Monitoring Program 1998-2002**
David Rockwell, Great Lakes National Program Office

9:15 am - 9:30 am Break

9:30 am -10:30 am **Beach Monitoring Updates from the Great Lake States**
Coordinator: Shannon Briggs, Michigan Department of Environmental Quality

10:30 am - 11:00 am **Ontario Perspective of Great Lakes Beach Issues**
Atul Jain, Senior Safe Water Consultant, Ministry of Health and Long-Term Care, Ontario, CA

11:00 am -11:30 am **National Epidemiological and Environmental Assessment of Recreational Water Study**
Alfred P. Dufour¹, Rebecca L. Calderon², Michael J. Beach³, Timothy J. Wade², Elizabeth A. Sams²; 1. National Exposure Research Laboratory, Cincinnati, OH; 2. National Health and Environmental Effects Laboratory, Chapel Hill, NC; 3. Centers for Disease Control and Prevention, Atlanta, GA.Epi Studies-NHEERL

11:30 am -noon Great Lakes Beach Association business

Noon Adjourn

NOTE: The GLBA Annual Meeting is part of the Lake Michigan: State of the Lake '03 Conference (Breakout Session 4). Registration options include: GLBA only, GLBA special registration that includes the Lake Michigan Conference.



Great Lakes Beach Association Annual Meeting Posters



Beach Water Quality Models: Lessons Learned about Water Quality Predictive Models for Bradford and South Shore Beaches in Milwaukee

M. E. Bruesch and P. Biedrzycki

City of Milwaukee Health Department Division of Disease Control and Prevention

(414) 286-5744, (414) 286-5164 (fax), mbrues@milwaukee.gov

Persistence and Growth of *Escherichia coli* and Enterococci in *Cladophora* in Nearshore Water and Beach Sand of Lake Michigan

M. N. Byappanahalli, D. A. Shively, M. B. Nevers, M. J. Sadowsky, and R. L. Whitman

Lake Michigan Ecological Research Station, United States Geological Survey, Porter, Indiana

46304

Concentrations of *Escherichia coli* in water and bed sediments in Maumee Bay, Toledo and Oregon, Ohio

D. S. Francy, A. M. Gifford, P. Struffolino, and D. F. Dwyer

U.S. Geological Survey, 6480 Doubletree Avenue, Columbus, Ohio 43229, 614/430-7769

(telephone), 614/430-7777 (fax), dsfrancy@usgs.gov

Predicting the Movement and Bacteria Concentrations of River Plumes in Lake Michigan Using Hydrodynamic Modeling

W. Frick¹, T. Khangaonkar², R. Whitman³, A. Dufour, Z. Yang², and G. Korinek³

¹Regulatory Support Branch, ERD-Athens, U.S. EPA; ²Battelle Memorial Institute, Seattle Research Center; ³Lake Michigan Ecological Research Station, United States Geological Survey

Contact Information: Walter Frick, Regulatory Support Branch, ERD-Athens, U.S. EPA, 960 College Station Rd., Athens, GA 30605, (706) 355-8319, frick.walter@epa.gov

Occurrence of Indicator Bacteria and Enteric Viruses in Michigan Tributaries

T. M. Jenkins¹, T. M. Scott¹, M. R. Woodall², and J. B. Rose^{1,2}

Michigan State University, ¹Dept. of Crops and Soil Sciences and ²Dept. of Fisheries and Wildlife, East Lansing MI 48824

Evaluating the Efficacy of a Storm Sewer Outfall Re-engineered for the Reduction of Bacterial Contamination to Surface Water

J. L. Kinzelman^{1,2}, R. J. Van Swol³, and R. C. Bagley¹

¹City of Racine Health Department, Racine, WI, ²Univ. of Surrey, Guildford, UNITED KINGDOM, ³Univ. of Wisconsin, Milwaukee, WI.

GIS-Based Hydrologic Modeling of a Watershed that Drains into Lake Michigan: Example from the Watershed of the East Little Calumet River

G. C. Korinek^{1,2,3}, G. A. Olyphant^{2,3}

¹United States Geological Survey, Lake Michigan Ecological Research Station, Porter, IN.;

²Department of Geological Sciences, Indiana University, Bloomington, IN.; ³Indiana Geological Survey, Bloomington, IN

Great Lakes BeachCast: A Regional Beach Reporting System

Manninen, C. and K. Yam

Great Lakes Commission, Eisenhower Corporate Park, 2805 S. Industrial Hwy, Suite 100
Ann Arbor, MI 48104-6791

Seasonal Persistence of *Escherichia coli* and Enterococci in Backshore Sand at the Groundwater Table of Two Lake Michigan Beaches

D. A. Shively, R.L. Whitman, M. B. Nevers, M. N. Byappanahalli
Lake Michigan Ecological Research Station, United States Geological Survey, Porter, Indiana
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***Escherichia coli* Source Detection on Lake Michigan Swimming Beaches in Lake County, Illinois**

W.J. Soucie¹ and M. Pfister²
Central Lake County Joint Action Water Agency, Lake Bluff, IL 60044¹ Lakes Management Unit,
Lake County Health Department, Waukegan, IL²

Determining *E. coli* densities in Suspended Sediment

P. S. Struffolino¹, D. F. Dwyer¹, D. S. Francy², and A. M. Gifford
¹University of Toledo, ²United States Geological Survey

Effects of Alternate Approaches Using Water Quality Indicators for Beach Closures Within New York State Parks

T. Lyons, K. Terbush, and K. Strassner
New York State Office of Parks, Recreation and Historic Preservation, Environmental Management
Bureau, Empire State Plaza, Agency Building 1, Albany, NY 12238, (518) 474-0409,
Karen.Terbush@oprhp.state.ny.us

Social Dimensions of Water Quality Monitoring and Public Notification at Wisconsin Great Lakes Public Beaches under the 2000 Federal BEACH Act

B. J. Vail
Wisconsin Department of Natural Resources, PO Box 7921, 101 S. Webster St, WT/2
Madison, WI 53707

Protecting Lake Michigan Water Quality: Addressing Beach Issues In 2003

J. T. Zmuda, Z. Abedin, and B. Sawyer
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