



THE ENGINEERING SOCIETY OF DETROIT®
FOUNDED IN 1895

20700 Civic Center, Ste 450
Southfield, MI 48076

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ESD/MWIA 20TH ANNUAL

SOLID WASTE TECHNICAL CONFERENCE

TRAINING DAY: Tuesday, March 23, 2010
CONFERENCE DAY: Wednesday, March 24, 2010

Kellogg Hotel & Conference Center
East Lansing, Michigan



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For 20 years, the Engineering Society of Detroit (ESD), in partnership with the Michigan Waste Industries Association, has hosted this annual conference, focusing on present and future issues, solutions and ideas related to the solid waste industry.

This year will be no exception. Once again, on Wednesday, March 24, 2010, the conference will bring together experts in climate change, alternative energy, and leading edge waste management practices for a futuristic, informative one-day conference on issues related to policy issues, new technologies, regulatory update and the future of the solid waste industry.

A pre-conference training session, designed to provide practical guidance on landfills—**"Beyond the Basics"** will take place Tuesday, March 23, 2010. Relevant issues will be related to landfill related technologies, operational best practices, environmental concerns and geotechnical aspects of landfill design.

Training will be led by representatives of the regulated community, regulatory agencies, engineers and policy makers to ensure a broad perspective of the issues impacting solid waste management practices.

PRE-CONFERENCE TRAINING DAY:

This year's pre-conference training day will be held Tuesday, March 23, 2010. The training track consist of one 8-hour session with lunch and breakfast provided.

Building on the success of previous conferences, there will be an all-day exhibit booth and reception area. This is an excellent forum for manufacturers and vendors to interact and explore some of the latest achievements in the solid waste and environmental industries. The conference day ends with a final networking reception.



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THIS CONFERENCE HAS BEEN DESIGNED WITH THE WASTE MANAGEMENT AND ENVIRONMENTAL PROFESSIONAL IN MIND.

Whether you're in private industry, a government employee, consultant, or equipment supplier, this conference will be beneficial to you. It will give you the opportunity to:

- Network with top local specialists and professionals in the field
- Hear from leaders in the industry about the latest technology & regulatory information
- Find out from industry leaders about emerging technologies & regulatory changes impacting the solid waste industry
- Learn from presentations & case studies on solid waste management issues
- Gain information from presentations addressing current issues & changes impacting the waste industry



TRAINING DAY: Tuesday, March 23 2010

CONFERENCE DAY: Wednesday, March 24, 2010

CONFERENCE PLANNING COMMITTEE

NAME	COMPANY
Rick Burns	NTH Consultants, Ltd.
Todd Davlin	Granger Energy Companies
Brian Ezyk	Republic Services, Inc.
Adam Larky	Cornerstone Environmental Group, LLC
Doug Gatrell	Conestoga-Rovers & Associates
Gary Loveland	Terra Contracting, LLC
Milind Khire	Michigan State University: Civil & Environmental Engineering
Margie Ring	Michigan Department of Natural Resources and Environment
Dave Rogers	Stante Excavating Co., Inc.
Paul Sgriccia	Golder Associates Inc.
Matt Vander Eide	GZA GeoEnvironmental, Inc.
Tim Walker	The Engineering Society of Detroit
Eric Wallis	Waste Management, Inc.
Dimitrios Zekkos	University of Michigan: Civil & Environmental Engineering

FOR ADDITIONAL INFORMATION

Visit www.esd.org or contact Tim Walker, The Engineering Society of Detroit at twalker@esd.org or (248) 353-0735, ext. 115

ACCOMMODATIONS

Hotel overnight room rates:
 The hotel's regular rates range from \$119-\$155 depending on room type. However, we are pleased to offer the following special group rate:

- **Standard Double:** \$94.00 Single/Double
- **Standard Queen:** \$94.00 Single/Double

**Reservations must be made directly with the Kellogg Hotel & Conference Center. To make reservations call: (517) 432-4000 or 1-800-875-5090. Tell the reservation agent that you are part of the ESD Solid Waste Group to get the special rate. The group reservation cut off date is Friday, March 14, 2010.*

For more information about the Conference Center visit: <http://www.hfs.msu.edu/kellogg>.

LOCATION

Kellogg Hotel & Conference Center
 55 South Harrison Road
 East Lansing, MI 48824
 (517) 432-4000



Training Day Agenda

Landfills – Beyond the Basics

Tuesday, March 23, 2009

Kellogg Hotel & Conference Center, East Lansing, Mich.

TIME	EVENT
7:30 a.m.	Registration & Continental Breakfast
8:00 a.m. –12:00 p.m.	Training Program
12:00 p.m.–1:00 p.m.	Deli Box Lunch
1:00 p.m.–5:15 p.m.	Training Program

*Refreshments will be served in the training room.

TOPICS

LANDFILL PUSH, SPREAD, COMPACTION

Operational Best Practices and How They Can Lower Your Cost

Tom Griffith, Senior System/Application Specialist, Waste Caterpillar QSID Global Product/Application team, will discuss current technologies related to landfill push, spread and compaction, and how you can best utilize the new tools and lower your costs.

LINERS AND COVERS: BASICS TO STATUS QUO

Milind V. Khire, PhD, PE, Associate Professor, Department of Civil & Environmental Engineering at Michigan State University, will present on the design, construction and performance of composite liners for conventional, as well as bioreactor landfills. In addition, Dr. Khire will discuss the design, construction, and performance of conventional and evapotranspirative caps and how they can be effective, used appropriately, and the capital cost involved in their maintenance.

METHANE EMISSION AND OXIDATION PREDICTION MODELING

Tarek Abichou of Florida State University will focus on regulations pertaining to gas emissions and factors that impact the oxidation of methane within landfill cover. Modeled as well as field data will be discussed.

GEOTECHNICAL ASPECTS OF LANDFILL DESIGN: FUNDAMENTALS AND RECENT ADVANCES

Dimitrios Zekkos, PhD, PE, Assistant Professor, Department of Civil and Environmental Engineering, University of Michigan-Ann Arbor, will review the fundamentals and design procedures used to address various geotechnical aspects of landfill design. Topics covered include waste characterization for geotechnical purposes, static and seismic landfill stability and waste compressibility. The emphasis will be on recent advances in the understanding of the mechanical properties of Municipal Solid Waste, such as unit weight, compressibility, shear strength, stress-strain behavior and dynamic properties.

DO'S AND DON'TS IN LEACHATE MANAGEMENT

Kevin Conroy, PE, Principal and Water Treatment Practice Leader, Golder Associates Inc. will discuss lessons learned in leachate management and treatment planning and implementation. Also included will be discussions on new technologies that could provide a solution to several difficult leachate treatment problems.

All training day programs will be eligible for Continuing Education Credits based on eight hours of instruction time. A continental breakfast, deli lunch, breaks and course materials are included in the training day price. Overnight hotel rooms are available as part of the conference block and reservations must be made directly with the Kellogg Hotel & Conference Center.

Members of ESD and MWIA can take advantage of a member rate discount.

If you are not currently a member of ESD, you may join at the time of registration to receive the discount.

COURSE FEES

Member: \$225.00
Non-Member: \$300.00

**Register on the
back page or online at
www.esd.org.**

Conference Day Agenda

Wednesday, March 24, 2010

Kellogg Hotel & Conference Center, East Lansing, Mich.

TIME	SPEAKER	SESSION TITLE
8:15AM - 8:30AM	Paul Sgriccia, PE, Golder Associates, Inc. U.S. Waste Market Sector Leader	Welcome
8:30AM - 9:30AM	George R. Koerner PhD, PE & CQA, Director Designate Geosynthetic Institute	Alternative Landfill Cover
9:30AM - 10:30AM	Eric E. Wallis, J.D., C.P.G., Director Waste Management Groundwater Protection Programs. Waste Management, Inc.	A Nationwide Evaluation of Subtitle D Liner Performance Based on Groundwater Quality Data
10:30AM - 11:00AM	BREAK	
11:00AM - 12:00PM	Harvey Gershman, Gershman, Brickner & Bratton, Inc.	What's Ahead for Solid Waste Management in the U.S.
12:00PM - 1:30PM	LUNCH	
12:30PM - 1:30PM	Stanford R. Ovshinsky, President & CEO, Ovshinsky Innovation LLC	Is Solar Energy The Future For Our Global Economy?
TRACK A —NEW TECHNOLOGIES/CASE STUDIES		
1:30PM - 4:00PM	Leah Pabst, B.A. (M.S. in progress), Conestoga-Rovers & Associates	Solutions for the Treatment of Landfill Leachate: A Series of Engineered Wetland Case Studies
	William B. McPherson, PE , Technical Development Director for DTE Energy Services	Gasification of Solid Waste
	Dave Vlastic, PE, Sr. Manager, Engineering, Republic Services, Inc.	Energy – Producing Flexible Solar Cover Turns Landfill Into Green Energy Park
	Mark Bertane, Blackhawk Technology Company	Lorong Halus Landfill Leachate Collection – Solutions To Enhance Water System Efficiency and Effectiveness
TRACK B — REGULATORY ISSUES AND UPDATES		
1:30PM - 4:00PM	Khaled Mahmood, P.E., Senior Project Manager, Cornerstone Environmental Group, LLC	Implementation of the Greenhouse Gas Regulations for Landfills
	Tonia Olson, Director of Governmental and Community Relations, The Granger Company	Examining Increased Renewable Energy Production from Landfill Gas in Michigan (Legislation HB 5334 & SB 725)
	Steve Sliver, Chief of Storage Tank and Solid Waste Program Section, MDNRE, WHMD	MDNRE Legislative Update
	Margie Ring, State Solid Waste Engineering Coordinator, MDNRE, WHMD	MDNRE Legislative Update

You may also register online at www.esd.org

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REGISTRATION FORM

NAME & TITLE	
COMPANY	
COMPANY ADDRESS	
CITY, STATE, ZIP	
PHONE	FAX
E-MAIL	

Please return to the Engineering Society of Detroit

FAX: 248-353-0736

MAIL: 20700 Civic Center, Ste 450
Southfield, MI 48076

Confirmation will be sent via e-mail, unless otherwise requested.

CONFERENCE:

- \$150 Full Day ESD/MWIA
- \$100 Full Day Government/MDNRE
- \$185 Full Day Non-member
- \$35 Full Day Student Rate
- \$400 Exhibitor (with tabletop display)
- \$100 Additional Exhibitor Staff (Must be a registered exhibitor from the same organization).

PAYMENT METHOD:

- Check** (payable to The Engineering Society of Detroit)
- Credit Card:** Visa MasterCard AmEx Discover

CARD #	EXP. DATE
CARDHOLDER'S NAME	AMT: \$
SIGNATURE	DATE

CANCELLATION POLICY:

You may cancel without charge if your request is received by March 19, 2010. You may cancel with a charge of \$60 if your request is received after March 19, 2010. If your original registration cost was less than \$60, you forfeit the fee.

TRAINING DAY:

- \$225 Member
- \$300 Non-member