

# WEST MICHIGAN ENVIRONET



A Newsletter of the West Michigan Chapter of the Air and Waste Management Association

April 2011

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## 16th Annual Hazardous Waste Management Workshop

Once again, another February has come and gone and another hazardous waste workshop is in the books. The workshop was held on February 9 at Frederik Meijer Gardens, exactly one week after the “blizzard of 2011.” Christine Grossman from the MDEQ Assistance Center presented the program and was joined by John

Fisher and Reed Sneller of the Grand Rapids District Office and Nadine Deak of the Kalamazoo District Office.



Christine Grossman

Between on-site and web participants, well over 200 people attended. We also awarded a digital camera to Sean Chapple of Alcoa-Howmet as a randomly drawn winner of those that completed the on-line survey to tell us how we’re doing. Also given away were three WMAWMA memberships for the rest of calendar year 2011. Steve Bylsma (Prein & Newhof), Bob McCann (Bayer CropScience LP), and Laura Tavares (Western Michigan University) were the lucky winners.

Some of the positive survey responses included:

***“I like going every year to refresh annually and learn of any changes...Please maintain the current schedule and especially the affordability.”***

***“Annual refresher training is always worthwhile.”***

***“We like the annual networking and exchange of information in person.”***

***“It would be nice to continue on a yearly basis to keep abreast of any recent changes plus to be able to directly ask questions to key speakers.”***

***“I appreciate the opportunity to network at this conference.”***

The feedback we receive is much appreciated.

## *Spring Conference: Reinventing Michigan*

Reinventing Michigan was the theme of the Spring Conference, with speakers on both public and private sector changes in Michigan's economy and air and waste management issues. New Congressman Bill Huizenga (R-2<sup>nd</sup> District) led off by discussing financial institutions and consumer credit; international monetary policy and trade; and domestic monetary policy and technology. He emphasized the need to resolve the federal budget deficit and recounted his experiences in efforts to encourage bipartisanship.



**Congressman Bill Huizenga**

The heads of the DEQ Divisions covering air, waste, and remediation provided an update on their divisions' plans and activities. Division Chiefs Liane Shekter-Smith (Resource Management Division) and G. Vinson Hellwig (Air Quality Division) and Assistant Chief JoAnn Merrick (Remediation Division) covered their respective topics. It was clear that each division is working on maintaining its programs after the recent personnel losses due to the state government's early retirement offer. The luncheon speaker was Grand Rapids Mayor George Heartwell, who described the many ways the City of Grand Rapids has "gone green" and in particular has become a national leader in sustainability, brownfield redevelopment, and LEED



**Jim Enright, Chair WMA&WMA  
Mayor George Heartwell of Grand Rapids**

Our corporate sponsors have been very generous and we appreciate their continued support. Five of our corporate sponsors were presented with awards at the luncheon:

Horizon Environmental, 15 years  
Miller Johnson, 15 years  
Industrial Air Solutions, 5 years  
Terra Contracting, 5 years  
tesa tape, 5 years

The lunch also included introductions of this year's scholarship awardees, and announcement of the results of the recent election of board members and officers.

After lunch, the program focused on new industries and their issues. Sube Vel and Jennifer Quigley of Conestoga-Rovers described their company's experience in implementing California's cap and trade requirements in the food processing industry there, which exemplifies situations that may apply in Michigan if a cap and trade system is adopted. Issues in hybrid battery manufacturing were presented by Jack (JL) Johnson and Chris Keskitalo of Johnson Controls- Saft.

The present and future of photovoltaic cell manufacturing in Michigan were described by Gary Didio of Uni-Solar and Andrew Boddy of CFR, LLC. Kelly Slikkers, an expert in closed molding processes and specializing in lean manufacturing, discussed the experiences of Energetx Composites as it transitioned from manufacturing yachts to wind turbines, and was joined by Jeff Pfof of Environmental Partners, Inc. who provided insights on air regulations.

DEQ Director Dan Wyant spoke about his perspectives in overseeing DNRE and as the group executive for the DEQ, DNR, and Department of Agriculture. His three key standards for DEQ are: (1) that Michigan be a leader of environmental stewardship, with the ability to measure and showcase its status; (2) that DEQ be a full partner in Michigan's economic development strategy; and (3) customer service, meaning getting to "yes" and helping people succeed. Director Wyant's presentation also facilitated developing a relationship between him and the chapter.



**SAVE THE DATE!!**  
**Tuesday, June 7, 2011**



The Meadows  
 Grand Valley State University  
 Allendale, Michigan



## 2011 SCHOLARSHIPS AWARDED

The West Michigan Chapter of the A&WMA is pleased to announce we have awarded three, \$2,000 scholarships along with a one year membership to WM-A&WMA. Congratulations to our scholarship winners Nicole Horne, Elizabeth LaRue, Heather Snyder pictured below attending our Spring Conference at GVSU Eberhard Center.



The following excerpts are directly from the scholarship recipient's applications:

### *Nicole Horne, GVSU, Masters Program in Biology - Annis Water Resources Institute*

Water is essential for sustaining the daily life of all inhabitants of the world. Freshwater is a shrinking resource and has become a limiting commodity in large parts of the globe. Overuse, pollution, and contamination in underdeveloped countries has resulted in poor quality drinking water for over a billion people. An inexpensive remedy is the potential for local development and use of the Biosand filter in every household, as it delivers safe filtered potable water – one of the UN Millennium Developmental Goals (2008). Indeed, hundreds of HydrAid® Biosand filters manufactured in Michigan are now in use all over the world. The physical filtration of particulate impurities through graded sand is well understood, however there is little scientific understanding of the role of the complex microbial biological layer or *biofilm*. Presumably, an active microbial food web is involved in ridding the water of harmful contaminants such as pathogens and pollutants. *Accordingly, my thesis entails the characterization of the biological layer of the Biosand drinking water filter system.* This study is designed to address this void by experimentally studying the structure (composition) and function (role) of the biofilm produced by pristine and polluted waters in the Biosand Filter system using modern microscopic, biochemical, molecular, and analytical tools that measure changes in water-borne microbes (e.g., net loss of microbes by direct count), organic carbon (e.g., loss of organic matter by decomposition), and pathogens (e.g., using surrogate non-pathogenic *Escherichia coli* as tracer for pathogens). Findings are expected to advance scientific understanding of the nature of the biofilm and establish a sound basis for the optimal operation of the Biosand filter system, enabling its widespread use in regions with questionable water quality, improving human health and welfare. Moreover, being a recipient of the Air & Waste Management Association 2011 Scholarship will not only enable me to complete my master's thesis in aquatic microbial ecology, but make advancements through discovery, ultimately meeting the aquatic environmental challenges plaguing our global society.

**Elizabeth LaRue, GVSU, Masters Program in Biology - Annis Water Resources Institute**

Invasive species and our efforts to control them impose major disturbances to earth's ecosystems. For example, the application of herbicides is a commonly employed control method, but may affect non-target species, including humans. Moreover, while chemicals are often effective, there is increasing documentation of reduced efficacy, presumably due to the evolution of resistance to pesticides by target organisms (Heap 2010). Thus, understanding the efficacy of chemical control methods - and the reasons for their failure - on invasive species are imperative to reducing the impact of human disturbance on earth's ecosystems.

The Eurasian watermilfoil (*Myriophyllum spicatum*) is an ecologically devastating invader that is extensively managed with herbicides, but reductions in herbicide efficacy are increasingly reported by lake managers (Glomski & Netherland 2010). Herbicide resistance has been found to be genetically based in other invasive aquatic plants (Michel *et al.* 2004). Previous work in my advisor's laboratory has uncovered much genetic diversity in the Eurasian system. A previous Masters student in our lab, Matthew Zuellig, identified more than six distinct biotypes of invasive Eurasian watermilfoil in a survey of North American populations using a DNA fingerprinting method. It is suspected that these different biotypes exhibit different levels of susceptibility to herbicides, but to date no explicit tests have been conducted. Such a comparison has the potential to develop a very powerful management tool as molecular fingerprints could then be used to predict the level of herbicide efficacy in different populations.

In my Thesis research, I will use a combination of laboratory experiments, field studies, and genetic analysis to determine whether different biotypes of Eurasian watermilfoil exhibit differential response to herbicides. Specifically, I will conduct laboratory herbicide efficacy screens for two commonly employed herbicides on multiple populations from each of several previously identified biotypes and compare their growth responses. In addition, I will work with collaborators to quantify herbicide efficacy in natural populations of distinct biotypes. I will disseminate the results of this research at scientific conferences and in peer-reviewed journal(s) so that lake managers can incorporate the information from

these studies to increase the efficiency of aquatic ecosystem management.



**Heather Snyder, GVSU, Natural Resources Management, Undergraduate Program**

The famous conservationist Aldo Leopold once said “we grieve only for what we know.” It was his, and is now my, sentiment that societies’ disconnect from nature and overall lack of environmental education is one of the primary reasons humans degrade and allow environmental degradation to occur. If you ask many Americans about the current environmental concerns they will probably tell you that they have heard all about it, but in reality they probably do not know why the environment is so important. The overall lack of environmental knowledge is not surprising when you consider how society has slowly moved from an intimate relationship with nature to being almost entirely dependent on electronics. Before the technological revolution children spent nearly all of their time outdoors and thus attained a certain appreciation for nature. Today children rarely venture outdoors and are spending an increasing larger amount of time learning what button sequence will get them to the next level of their favorite video game. With such discrepancies in environmental relations it is not surprising that many humans now readily sacrifice the once beloved environment in order to save their lush lifestyle.

Conservationists alone cannot save the environment. In order for our environment to be restored and preserved a large percentage of the world's population will have to become environmentally conscience. All people (not just conservationists) need to take action in order for change to be implemented. Unfortunately, most people do not actively respond when their only motivation is a scientist insisting that we are all in trouble because the

environment is being destroyed. In order to really see a response capable of making a difference people need to be passionate about that issue. Passion leads people to take action and from my experiences passion is most easily cultivated in children.



I have spent a lot of time with children and have found that they have extremely ambitious and prestigious ideas of what they want to be when they grow up. I have heard many proclaim that they want to be doctors. Some want to be teachers and others firefighters, but in all of the time I have spent with children I have never heard any of them say that they want to be a conservationist when they grow up. Children see many professions as important and desirable but working to save the environment is not one of them. This lack of passion is one of the reasons that I wish to be an environmental educator. I have spent a few summers teaching environmental education programs to children at the Howell Nature Center and I love being able to reintroduce them to all that nature has to offer. I am pursuing a degree in Natural Resource Management so that I may be able to turn my much beloved summer job into a career. I hope to use this career to show children how truly magnificent nature is and instill in them a desire to preserve our wonderful environment, so that perhaps they may rise up and become a generation that lives in harmony with nature.



## Member Appreciation Event- Butterfly Bash



**April 12, 2011**  
**Frederik Meijer Gardens**

On April 12, West Michigan Chapter A&WMA members and their families enjoyed a relaxing evening at the Frederik Meijer Gardens. Over 120 guests were treated to an array of delicious food and refreshing drinks. Highlights of the evening included socializing with colleagues and meandering through the Gardens. The butterflies, inspired by the warm, engaging sunlight, entertained young and old alike.

It was a great privilege to be able to show our appreciation to our membership for their loyalty and involvement in the West Michigan Chapter AWMA. The evening was such a huge success; we look forward to the next social gathering of members and their families.

**Sponsored by:**



## West Michigan Chapter Air & Waste Management Association

Date	Event
September 15, 2010	Luncheon Program – Meijer Gardens <i>The DNRE Response to Enbridge Spill in Michigan</i> David O’Donnell, MDNRE, Kalamazoo District Supervisor, Remediation Division.
October 20, 2010	Luncheon Program – Kent County Recycling & Education Center <i>Tour the Kent County Recycling Center</i> 977 Wealthy Street, Grand Rapids, Michigan Bill Allen, WTE Division Director
November 9, 2010	Joint Conference – Lansing Community College- West Campus (Co-Sponsored by WM-AWMA, EM-AWMA and the Michigan Bar Association)
November 24, 2010	Talking Turkey with Vern Ehlers (Michigan Water Environment Association event co-sponsored by WM-AWMA and the City of Wyoming)
January 19, 2011	Luncheon Program – Meijer Gardens <i>Part 201</i> . Lynelle Marolf
February 9, 2011	Hazardous Waste Workshop – Frederik Meijer Gardens
March 23, 2011	Spring Conference – GVSU Eberhard Center, Grand Rapids <i>Reinventing Michigan</i>
April 12, 2011	Member Appreciation Event Butterfly Bash, Meijer Gardens, 6-9 p.m.
April 20, 2011	Luncheon Program – Meijer Gardens Environmental Logistics. GHS(Globally Harmonized System) and REACH (Regulation on Registration, Evaluation, Authorization and Restrictions of Chemicals)
May 18, 2011	Luncheon Program – Meijer Gardens Air Update
June 7, 2011	Morning Technical Session/Lunch/Afternoon Golf The Meadows, GVSU, Allendale, Michigan

## Conferences, Workshops, and Training

**ANNOUNCEMENT** – The DEQ’s Office of Environmental Assistance (OEA) now accepts Visa, MasterCard, and Discover for all DEQ/OEA workshop payments!

**APRIL 11-12, 2011**

**THE ENGINEERING SOCIETY OF DETROIT (ESD) MICHIGAN WASTE INDUSTRIES ASSOCIATION (MWIA) 21ST ANNUAL SOLID WASTE TECHNICAL CONFERENCE.** The conference is scheduled for Tuesday, April 12, 2011, from 8:30 a.m. to 5:00 p.m. at Michigan State University's Kellogg Hotel & Conference Center in East Lansing, Michigan. A training day is scheduled for Monday, April 11, 2011. The conference will feature expert speakers and an important list of relevant topics, including the future of solid waste management in the U.S.; solid waste policy issues; new technologies; and regulatory updates. Industry professionals are invited to network with topic local specialists and professionals in the field; hear from leaders in the industry about the latest technology and regulatory information; find out from industry leaders about emerging technologies and regulatory changes impacting the solid waste industry; learn from presentations and case studies on solid waste management issues; and gain information from presentations addressing current issues and changes impacting the waste industry. For more information regarding cost or to register, please visit [www.esd.org](http://www.esd.org) and click on the conference under "Upcoming Events." For general information, please contact *Margie Ring* at [ringm@michigan.gov](mailto:ringm@michigan.gov).

**2011 PTI SERIES**

**APRIL 13**

**JUNE 8**

**SEPTEMBER 14**

**NOVEMBER 9**

**AIR PERMIT APPLICATION WORKSHOP FOR FIRST-TIME APPLICANTS, CONSTITUTION HALL, LANSING, MICHIGAN.** For most first-time applicants, completing the Permit to Install application is a daunting task. However, submitting a complete and timely application can be more manageable if you know what’s expected. The Michigan Department of Environmental Quality is offering this workshop designed to give information on how to submit a complete permit application. Since this workshop is geared to first-time applicants, a significant portion of the session is devoted to your specific application. Air Quality Division permit engineers will be available to discuss your permit application with you one-on-one. To take full advantage of this time with the permit engineer, it is recommended you bring detailed information about your project with you to the session. This training is designed for first-time air permit applicants who need help completing their permit application; however, those who have applied before and need a refresher are welcome to attend as well. Registration fee is \$35 and includes workshop materials. Updated workshop information and registration is available on the Web at [www.michigan.gov/degworkshops](http://www.michigan.gov/degworkshops), click on “Upcoming DEQ Workshops”. Information Contact: *James Ostrowski*, Office of Environmental Assistance, 517-241-8057, or e-mail at [ostrowskij2@michigan.gov](mailto:ostrowskij2@michigan.gov). Registration Information: **Environmental Assistance Center**, 800-662-9278, or e-mail at [deg-ead-env-assist@michigan.gov](mailto:deg-ead-env-assist@michigan.gov).

**APRIL 20, 2011**

**SEMCOG WATER QUALITY WORKSHOPS FOR MUNICIPAL OPERATIONS, SUMMIT ON THE PARK BANQUET AND CONFERENCE CENTER, CANTON, MICHIGAN.** The Southeast Michigan Council of Governments (SEMCOG) has recently partnered with Southeast Michigan counties to develop a unique training program for municipal field staff to identify common activities that impact water quality at municipally-owned garages. This training is designed to incorporate easy, and often-free methods of preventing pollution in the course of day-to-day work for municipal garage, road and field staff to improve water quality in Southeast Michigan. In addition to improving and protecting water quality, attendees of this training will also be meeting their Phase II stormwater permit requirements. No matter which municipal stormwater permit you’re following (2003 or 2008), the Michigan Department of Environmental Quality (DEQ) requires that municipal staff and contractors receive training on managing stormwater. SEMCOG has coordinated these workshops with the DEQ, who will be offering a special session of their free Industrial Stormwater Operator Certification Program in the afternoon (includes training session and exam). Although municipalities may not need industrial certification, there is overlap between industrial and municipal activities. This program provides another source of stormwater management program training, but from a regulatory perspective. Municipal Department Field Staff including DPW, DPS, Water and Sewer, Road Maintenance, Facilities Maintenance, Vehicle and School Bus Mechanics, Parks and Recreation, Public Golf Course Maintenance, and stormwater and environmental stewardship staff should attend the workshop being held in their county. This training is provided at no-charge and is co-sponsored by SEMCOG and Macomb, Oakland, St. Clair, Washtenaw, Livingston, and Wayne counties, and Canton Township. Registration is required. Please register online via the [SEMCOG events calendar](#) or by clicking the "Register Now" links at the top of this message. For more information, contact *Susan Stefanski*, SEMCOG at [stefanski@semcog.org](mailto:stefanski@semcog.org).

- MAY 3, 2011** **12TH ANNUAL ENVIRONMENTAL ISSUES FORUM, MICHIGAN CHAMBER OF COMMERCE, LANSING, MICHIGAN.** The Michigan Chamber has gathered leading expert attorneys, government officials, and top consultants with extensive knowledge and expertise to provide you with an update on the most current developments in the environmental arena. Don't miss this popular, top-notch seminar held only once every year. DEQ will be presenting at this event. For more information, visit <http://www.michamber.com/events> or call 800-748-0344.
- MAY 5, 2011** **CERTIFIED HAZARDOUS MATERIALS MANAGERS OF MICHIGAN ANNUAL CONFERENCE, BURTON MANOR, LIVONIA, MICHIGAN.** This event includes speakers on a variety of environmental and safety topics including regulatory updates by Doug Kolinowski of MIOSHA and the new director of the Michigan Department of Environmental Quality (DEQ), Dan Wyant's direction for the new DEQ presented by Liane Shekter Smith. This year's Conference also includes several presentations on the recent oil spill in the Kalamazoo River by representatives of the U.S. EPA, MIOSHA, and the clean up contractor. Also Jim Newman, award winning speaker, will be presenting "Energy and Sustainability in Buildings: Their Impact on the Environment." Other presentation topics include greenhouse gas reporting rule update, Carbon Credits for offsets, and remediation under TSCA. The registration fee is: \$95 for current members of the Certified Hazardous Materials Managers of Michigan, \$125 for non-members, or \$45 for full time students. Online registration is available at [www.chmm-mi.org](http://www.chmm-mi.org), or e-mail [info@chmm-mi.org](mailto:info@chmm-mi.org).
- MAY 10-12, 2011** **MICHIGAN RECYCLING COALITION 29<sup>TH</sup> ANNUAL CONFERENCE & TRADE SHOW, MICHIGAN STATE UNIVERSITY KELLOGG CENTER, EAST LANSING, MICHIGAN.** Programming will focus on a variety of recycling topics including construction and demolition recycling, reuse programs, and composting in the university setting, and using social marketing to promote recycling. The three-day event boasts a variety of tours, training and networking events for anyone interested in learning more about recycling in Michigan. The Department of Environmental Quality is a partner on the event and will have a display. For further information contact *Kerrin O'Brien* at [kerrinmrc@gmail.com](mailto:kerrinmrc@gmail.com) 517-974-3672 or visit the Website at [www.michiganrecycles.org](http://www.michiganrecycles.org).
- JUNE 7-9, 2011** **THE NATIONAL ENVIRONMENTAL SUSTAINABILITY SUMMIT, THE WESTIN BOOK CADILLAC, DETROIT, MICHIGAN.** The National Environmental Sustainability Summit is the only annual national gathering of environmental professionals from the nonprofit, government, academic, and business sectors focused on promoting the most recent, useful, and innovative information and ideas on environmental sustainability. The yearly gathering attracts environmental leaders from across the country to exchange ideas on sustainability programs and practices that advance environmental, economic, and social goals. The Summit is essential for stimulating and supporting individual and collective action on sustainable manufacturing, energy efficiency, green products design, pollution prevention, chemicals policy and environmental innovation. This year's three-day conference, Partnering to Grow the Green Economy, will lead off with a panel of high level representatives from "The Big Three" – Chrysler, Ford and General Motors – who will offer their perspective on sustainability trends and challenges in automobile manufacturing. The Summit will also showcase successful business and government sustainability programs. A variety of experts, including scientists, practitioners, and regulators will present new ideas, research, practical applications and critical lessons learned. The Summit co-hosts are U.S. EPA, the National Pollution Prevention Roundtable, the Michigan Department of Environmental Quality, and Terrachord. For additional information about this conference, visit <http://www.environmentalsummit.org>.
- JUNE 16-17, 2011** **3<sup>RD</sup> ANNUAL MICHIGAN NO CHILD LEFT INSIDE (NCLI) SUMMIT, NORTHWOOD UNIVERSITY, MIDLAND, MICHIGAN.** This Summit is presented by the Michigan NCLI Coalition, a group dedicated to connecting Michigan's children to nature for their emotional, physical, and educational well being. The group is collectively working to rekindle this connection by promoting activities and policies that will support outdoor play and exploration, recreational opportunities, and hands-on environmental education. Updated summit information is available on the Web at [www.michigan.gov/deqworkshops](http://www.michigan.gov/deqworkshops), click on "Upcoming DEQ Workshops." Registration Information Contact: *Environmental Assistance Center*, 800-662-9278, or e-mail at [deq-ead-env-assist@michigan.gov](mailto:deq-ead-env-assist@michigan.gov). Information Contact: *Mary Goodhall*, Office of Environmental Assistance, 517-241-7968, or e-mail at [goodhallm@michigan.gov](mailto:goodhallm@michigan.gov).

JULY 18-19, 2011

**ITRC VAPOR INTRUSION PATHWAY TRAINING, SHERATON DETROIT NOVI HOTEL, NOVI, MICHIGAN.** Save the date for this important training, based on the Interstate Technology and Regulatory Council's (ITRC) national VI pathway guidance which was developed through the combined efforts of more than 100 professionals, including state and federal regulators, consultants, technology vendors, industry, and community stakeholders. Led by internationally recognized experts, this 2-day ITRC classroom training will enable you to:

- ▶ Learn the latest strategies to conduct site screening and investigations
- ▶ Determine what tools are appropriate to collect quality data and evaluate the results
- ▶ Apply multiple lines of evidence to ensure quality decision-making
- ▶ Build solutions for VI issues through understanding of mitigation options
- ▶ Network with environmental professionals
- ▶ Learn about new USEPA VI developments

Interactive learning with hands-on exhibits, classroom exercises, and frequent Q&A sessions will reinforce these course objectives and contribute to a practical understanding of this difficult pathway. Regulatory staff involved in remediation programs, members of the regulated community with remediation projects or problems, remediation consultants, public stakeholders, and others interested in gaining a better understanding of the vapor intrusion pathway should attend this training class. Space is available for 200 participants and may be limited by sector to ensure participant diversity. Registration will be available by May 1. To register, go to "Classroom Training" at [www.itrcWeb.org/crt.asp](http://www.itrcWeb.org/crt.asp) and select the "Registration" link. The Michigan Department of Environmental Quality is a sponsor of this event. For additional information, please contact the **ITRC Training Program** at 402-201-2419 or [training@itrcWeb.org](mailto:training@itrcWeb.org).

AUGUST 30-  
SEPTEMBER 2, 2011

**2011 STATE WETLAND CONFERENCE, GRAND TRAVERSE RESORT, ACME, MICHIGAN.** The Michigan Wetlands Association is pleased to announce a statewide wetland conference, which will be co-sponsored by the Michigan Department of Environmental Quality, with financial support from the U.S. Environmental Protection Agency, and the NOAA Coastal Zone Program, and will be open to the public. Highlights will include a special symposium on climate change adaptation, emphasizing the link between wetland management and restoration and response to climate change. In addition, sessions are planned to share information on recent changes to Michigan's regulatory program, wetland monitoring and assessment, and other topics through a mix of invited and contributed papers. The conference will be preceded by an interstate meeting of wetland research organizations that are contributing to a basin-wide coastal wetland monitoring project funded by the Great Lakes Restoration Initiative. Updated conference information can be found on the Web at [www.miwetlands.org](http://www.miwetlands.org). For additional program information, contact **Peg Bostwick, Michigan Wetlands Association** at [peg@aswm.org](mailto:peg@aswm.org).

OCTOBER 27, 2011

**2011 MICHIGAN GREEN CHEMISTRY AND ENGINEERING CONFERENCE: ADVANCING INNOVATION FOR A SUSTAINABLE FUTURE, NORTH CAMPUS RESEARCH COMPLEX, UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN.** The 2011 Michigan Green Chemistry and Engineering Conference continues the momentum of the green chemistry movement in Michigan. Green chemistry and engineering can revolutionize the way we work and live, by employing less toxic materials and processes in the manufacture and design of the products we use every day. While protecting human health and the environment, green chemistry and engineering can also help businesses create new markets, reduce costs, and gain a competitive edge. Come hear from leading experts in the fields of technology, chemistry, engineering, business process improvement, and economic development discuss advancements in green chemistry and engineering and how these innovations will lead Michigan to a sustainable future. Updated conference information is available on the Web at [www.michigan.gov/greenup](http://www.michigan.gov/greenup). Registration Information: **Environmental Assistance Center**, 800-662-9278, or e-mail at [deq-ead-env-assist@michigan.gov](mailto:deq-ead-env-assist@michigan.gov). Information Contact: **Jennifer Acevedo**, Office of Environmental Assistance, 517-335-3203 or e-mail at [acevedoj@michigan.gov](mailto:acevedoj@michigan.gov).

**CALENDAR**

Editor: Barbara Lindsay  
800-662-9278

The Michigan Department of Natural Resources and Environment (MDNRE) will not discriminate against any individual or group on the basis of race, sex, religion, age, national origin, color, marital status, disability, or political beliefs. Questions or concerns should be directed to the MDNRE Office of Human Resources, P.O. Box 30473, Lansing, Michigan 48909.



## **BECOME AN AIR & WASTE MANAGEMENT ASSOCIATION WEST MICHIGAN CHAPTER MEMBER**

Members of the international Air & Waste Management Association who reside in West Michigan are considered full members of the West Michigan Chapter. AWMA members from other geographical areas can join the West Michigan Chapter for a nominal fee. Membership benefits include a newsletter, invitations to local events, and reduced fees for these events. The Chapter also has a Local Associates (LA) membership for individuals who desire affiliation with the West Michigan Chapter only. Local Associates receive the newsletter, announcements, and local event discounts but cannot vote in AWMA elections or hold offices. A copy of the Local Associate membership form can be obtained from the WMAWMA website at [www.wmawma.org](http://www.wmawma.org), or by writing to:

**WEST MICHIGAN CHAPTER  
AIR & WASTE MANAGEMENT ASSOCIATION  
P.O. BOX 465  
ADA, MI 49301**



VISIT THE WEST MICHIGAN CHAPTER'S  
WEBSITE AT: [WWW.WMAWMA.ORG](http://WWW.WMAWMA.ORG)



You can use PayPal to pay for any of our conferences/services over the internet with your credit card.

### West Michigan Chapter Committee Roster 2010-2011

**Membership**

Staci LeFurge  
Andy Boddy  
Jillaine Kamp

**Newsletter**

Jacquelyn Linck - Chair  
Rob Simmons  
Bill Allen

**Nominating/Bylaws**

Jim Enright - Chair  
Phil Komar  
Staci LeFurge

**Program**

Tim Theeuwes - Chair  
Todd Colon  
Matt Eugster  
Staci LeFurge  
Andy Boddy

**Scholarships & Contributions**

Phil Komar- Chair  
David O'Donnell  
Mark Horne

**Sections & Chapters Council**

Tom DuPont - Representative  
Mark Horne - Lake Michigan  
State Section

**Long-Range Planning**

Board

**Recognition**

Todd Colon- Chair  
Bill Allen

**Development**

Mark Horne - Chair  
Jillaine Kamp

**Finance**

David O'Donnell-Treasurer, Chair  
Jim Enright

**Technology**

Matt Eugster - Chair  
Cal Peters - Webmaster

**Education/Outreach**

Staci LeFurge - Chair  
Todd Colon

## West Michigan Board of Directors

Jim Enright	Chair (2011)	Tom Dupont	Director (2011)
Phil Komar	Vice-Chair (2011)	Arthur Schmude	Director (2012)
Staci LeFurge	Past Chair (2011)	Matthew Eugster	Director (2011)
Mark Horne	Secretary (2011)	Jacquelyn Linck	Director (2012)
David O'Donnell	Treasurer (2011)	Rob Simmons	Director (2011)
William Allen	Director (2012)	Tim Theeuwes	Director (2011)
Andrew Boddy	Director (2012)	Jillaine Kamp	Executive Secretary
Todd Colon	Director (2011)		



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- ✚ Envirollogic Technologies, Inc.
- ✚ Environmental Partners, Inc.
- ✚ Environmental Resources Management
- ✚ Fishbeck, Thompson, Carr & Huber, Inc.
- ✚ GZA GeoEnvironmental, Inc.
- ✚ Kent County Department of Public Works
- ✚ Miller, Canfield, Paddock & Stone
- ✚ NTH Consultants, Ltd.
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