



Rick Snyder, Governor
Dan Wyant, Director

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SPRING 2014

MICHIGAN ENVIRONMENTAL LEADERS: Stewardship - Community - Economy

Submitted by Jeff Spencer, Office of Environmental Assistance

Michigan Environmental Leaders is part of an ongoing effort to improve environmental performance, encourage voluntary compliance, and build working relationships with stakeholders through the DEQ's existing pollution prevention framework. The effort consists of three distinct areas of participation depending upon one's current level of

knowledge and resource availability; the Michigan Environmental Leaders Network, Michigan's P2 Partners (MBP3), and Michigan Environmental Leaders.



Michigan Environmental Leaders Network

The Environmental Leaders Network is brought to you as a free service provided by the Office of Environmental Assistance and is meant to provide a vehicle for environmental news to flow between businesses, local units of government, citizens, community groups, and environmental organizations. The goal is to facilitate information sharing on pollution prevention, sustainability, and other topics related to environmental improvement, with a focus on environmental activities such as workshops, financial opportunities, restoration activities, volunteer/mentoring programs, training announcements, news or other events.

Michigan P2 Partners

Companies in Michigan have the opportunity to become involved in a unique program encouraging businesses to apply creative, cost-effective techniques to reduce waste, and prevent the release of hazardous substances. This voluntary program is open to all Michigan businesses, organizations, institutions, community groups, and others regardless of size, or interest in initiating or expanding P2 practices, and receives recognition for their efforts. Participants are asked to provide an annual performance summary of their progress and share success stories on their pollution prevention and sustainable activities.

This is where we engage our partners on many different levels. The P2 Partners receive information but they also give something in return, an Annual Performance Report. This report is based on their establishing goals and then reporting back on their success.

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- Access to the Toolkit – all of our existing resources in one spot (i.e. RETAP, loan program, education, pollution prevention, EMS development, and compliance assistance). This is a very dynamic component and allows partners to move upwards with the goal of reaching the Leaders level.
- Maximum outreach and education is the objective. Providing the resources to our partners that allow them to be successful.
- Clean Corporate Citizen (C3) and Neighborhood Environmental Partners (NEP) currently exist within this level.

Michigan Environmental Leaders

As P2 Partners fulfill all the requirements including annual reporting, strong stewardship (i.e. C3), and community partnering (i.e. NEP), they evolve into a Leader.

- The main criteria that sets Leaders apart from all the others is their mentoring achievements, which may come in many forms:
 - Providing assistance/guidance through the supply chain or customer base.
 - College internships with a designated mentor within the company.
 - Interactions with local high schools (i.e. math/science students interacting with manufacturing professionals).
 - This could also include recruitment efforts to bring more entities into the overall program.
- Compliance is also an essential component of earning a Leaders designation; if they are already C3 members this requirement has been fulfilled.
- Once a P2 Partner reaches Leaders status, it is up to them to keep it through annual/bi-annual evaluation showing continuous improvement.
- Annual reporting to include; mentoring discussion, environmental performance data, EMS status/audit, and community outreach/employee activities. This report will be made available to the public via a dedicated Web site.

More information can be found at the Michigan Environmental Leaders Web page at www.michigan.gov/deq (select Pollution Prevention, and then Environmental Leaders.)

DEQ PURSUES RECYCLING IMPROVEMENTS

Submitted by Chad Rogers, Office of Environmental Assistance

The Department of Environmental Quality (DEQ) recently announced \$250,000 in Community Pollution Prevention (P2) Grants for the collection of data and the creation of information that will inform community-based decision makers interested in improving their local recycling operations.



In his 2012 special message on energy and the environment, Governor Rick Snyder acknowledged the low recycling rate in Michigan and committed to creating a plan to improve recycling in Michigan. The DEQ responded by convening a workgroup to advance the Governor's objective. One finding of that workgroup is a need for more data and information to inform decision makers. The products from this grant program will satisfy that need and inform state and local decision makers as they pursue improvements to recycling in Michigan.

Through the Community P2 Grant Program, the DEQ will provide grants to non-profit organizations, local and tribal governments, local health departments, municipalities, and regional planning agencies. The program has a total of

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\$250,000 available for fiscal year 2014. Total grant funds requested must be no more than \$100,000 and the proposal must clearly indicate how the money will be spent. Grantees must fund at least 25 percent of the total project cost. Requests for funding will be accepted from April 7, 2014 through May 30, 2014.

To view the current Request for Proposals and learn more, go to the DEQ Community P2 Grants Program web page at www.michigan.gov/deqp2grants, or call the **Environmental Assistance Center** at **800-662-9278**.

NEW TESTING METHODS FOR BEACHES IN MICHIGAN

Submitted by Shannon Briggs, Water Resources Division (WRD)

The mission of the Michigan DEQ's WRD is to provide clean and safe water resources for our fellow Michiganders. Perhaps no activity symbolizes our mission more than the quintessential warm weather pastime: a day at the beach. Beachgoers expect and demand clean and safe water, yet the tools used to meet those expectations must be improved. No one wants to learn a day or two after their day at the beach that the water was not safe. The DEQ is working hard in 2014 to correct that problem by developing 21st century technology to assure the safety of beachgoers before they dive in.



The DEQ is providing \$100,000 to the Huron Clinton Metropolitan Authority to purchase monitoring equipment that will allow the rapid testing of samples collected at Lake St. Clair Metropark Beach. The Metropark will be building a new laboratory at the beach to house the equipment. Additionally, the Metropark will partner with Wayne State University to develop a Quantitative Polymerase Chain Reaction (QPCR) rapid method for beach testing. This collaboration is part of the Huron to Erie Alliance for Research and Training Freshwater Center that involves the Metropark, Wayne State University, Macomb Community College, and Macomb County Planning and Economic Development. These organizations are working together to enhance water quality along the Lakes Huron to Erie corridor through research, education, and training.

The rapid method for testing the water at beaches measures the DNA of bacteria. Current methods for beach testing require one to two days of incubation to grow colonies of bacteria that can be counted. The QPCR rapid method is much faster, providing results in less than four hours. The United States Environmental Protection Agency recently published a rapid test method (Method 1611) for monitoring enterococci in water. However, since the water quality standards for the state of Michigan are based on *E. coli*, the Metropark and Wayne State University researchers will be developing a method similar to Method 1611, but using *E. coli* instead of enterococci.

The project will involve collecting water samples from three beaches (Lake St. Clair Metropark Beach, St. Clair Shores Memorial Beach, and New Baltimore Beach) and then comparing the results using both the current method and the QPCR rapid method. This approach will give researchers the information needed to correlate the results of the old and new methods to determine accuracy in monitoring for compliance with Michigan's water quality standard for *E. coli*.

The water quality standard for *E. coli* requires the collection of at least three samples from a beach with the results being compared to a daily geometric mean standard of 300 *E. coli* per 100 milliliters. After five sampling events within 30 days, the results are compared to a 30 day geometric mean standard of 130 *E. coli* per 100 milliliters.

Health departments are required to report results to the public, local officials, and the DEQ within 36 hours of testing. Results are posted at the beach, on the health department's Web site, the DEQ's "BeachGuard" Web site, as well as distributed to the local media. In addition, beachgoers can also find test results through "myBeachCast" – a mobile phone application created by the Great Lakes Commission that links users to the BeachGuard databases in Michigan, Ohio, Illinois, and Indiana.

The development of a QPCR rapid method at beaches will allow results to be obtained within hours instead of days after the samples are collected, preventing beach visitors from swimming in water that does not meet the *E. coli* standard. The

rapid method and necessary test equipment may be available for use at remaining Michigan beaches as soon as next year. Governor Rick Snyder proposed a \$4 million Water Quality Initiative in the state's budget for fiscal year 2015 that includes a provision for real-time beach monitoring. The ability to identify sources of DNA in surface waters through development of the QPCR rapid method has additional functionality for other monitoring efforts that include identifying sources of contamination and monitoring for invasive species.

Because of cutting edge technology, Michigan beachgoers will soon be able to plan their day at the beach with greater confidence.

2014 MICHIGAN GREEN CHEMISTRY GOVERNOR'S AWARDS NOMINATIONS OPEN FOR INNOVATIVE PROJECTS

Submitted by Chris Affeldt, Office of Environmental Assistance

Have you used green chemistry to make an impact in your business, community, or school?



You may be eligible for a 2014 Michigan Green Chemistry Governor's Award if you have designed or implemented an innovative project, for example by replacing or reducing a hazardous substance, reducing resource use, enhancing recyclability, or designing a safer chemical product or process.

- The Award Program is open to individuals, groups, and organizations in Michigan, both nonprofit and for profit, including industry, academia, education, and advocates.
- A green chemistry technology can be an entirely new chemical product or process or an improvement on an existing product or process.
- Green chemistry improves upon all types of chemical products and processes by reducing their impacts on human health and the environment relative to competing technologies. Benefits to human health and the environment may occur at any point in the technology's lifecycle: feedstock, synthesis, use, and ultimate fate.



Nominations are due by July 18, 2014. View the full nomination packet at: www.michigan.gov/greenchemistry. Contact Chris Affeldt with questions at greenchemistry@michigan.gov.

ENHANCED POLLUTION PREVENTION ASSESSMENTS AVAILABLE TO SMALL MANUFACTURERS

Submitted by David Herb, Office of Environmental Assistance

The Retired Engineer Technical Assistance Program (RETAP) is providing enhanced pollution prevention (P2) and energy efficiency assistance to Michigan manufacturers, with the objective of identifying significant cost savings throughout their operations. With funding from the U.S. Environmental Protection Agency, the RETAP is adopting more sophisticated approaches to identifying hazardous material reduction opportunities through source reduction planning, green chemistry and environmentally preferred purchasing tools and limited lean assistance. The funding additionally allows RETAP to better identify and quantify energy conservation measures through ultrasonic leak detection, thermal imaging, and various Energy Star and Department of Energy software tools. RETAP is able to offer these enhanced services to as many as ten small and mid-sized manufacturers in conjunction with



the program's free onsite P2 assessments. Each manufacturer will receive a confidential recommendation report quantifying potential cost savings, and an abbreviated guidance document providing source reduction planning assistance.

Since 1994, the RETAP has provided free P2 and energy conservation assessments to businesses with 500 or fewer full-time employees in Michigan and institutions of any size. Recently, the Department of Environmental Quality was awarded a P2 grant to enhance the technical assistance capabilities of the RETAP. Targeted to assisting small manufacturers, the two year grant will significantly expand the scope and depth of RETAP assessments through the adoption of more sophisticated energy conservation and source reduction tools. Manufacturers interested in receiving an enhanced P2 assessment should contact **David Herb**, RETAP Manager, at **800-662-9278** or **herbd@michigan.gov**.

DEQ STORM WATER TRAINING

Submitted by Sarah Ehinger and Janelle Hohm, WRD, Kalamazoo District Office

The WRD Stormwater Staff doesn't just perform inspections and enforcement actions. In 2013 alone, they trained over 1,100 new stormwater operators and oversaw over 500 refresher trainings and renewals of stormwater certifications!

The WRD offers monthly Certified Operator trainings and exams in district offices throughout the state. Individuals attending these trainings learn about best management practices that can be utilized to prevent sediment and other pollutants from being transported to our lakes and streams by stormwater runoff.



The WRD has been offering certified operator training since the mid-1990's. Trainings are usually offered at DEQ District Offices, but sometimes staff will travel to other locations to make it easier for our customers to attend. All trainings give permitted facilities the opportunity to interact directly with the WRD district staff. Although the WRD district staff is readily available to all customers by phone, there is no substitute for meeting face-to-face.

When asked what he liked best about providing operator training, Ken Mroczkowski of Jackson WRD said "What I like most about teaching both the Industrial and Construction Stormwater Certified Operator classes is actually getting to meet all of the potential operators face-to-face and not just talking with them on the phone. I want all of them to walk away from my classes thinking that not only are they more educated in our programs, but DEQ staff is willing to work with them, too. I see it as a challenge and opportunity to have an upset individual that comes in for training walk out with his questions answered and a whole new outlook on our programs."

The WRD staff created DVDs specifically for these training sessions. Trainers don't just pop in the DVD, but stop the video throughout in order to discuss permit requirements and review the responsibilities of the certified operator. Trainers often ask participants to share examples of practices that work at their facility. Questions are encouraged! Following the training session, a 50-question multiple choice exam is administered. Individuals who pass this exam by scoring 70 percent or higher receive a certification, which is valid for five years.

Keeping track of over 10,000 certified stormwater operators in the state, processing 1,000 or so applications for new certifications annually, and sending out renewal notices is a tough job, and it all falls on one individual. Bruce Lack out of the Lansing Office is "the man" for stormwater operator certifications. When Bruce was asked why he feels the certification program is important, he mentioned several reasons, "It is important to the people of Michigan to know that operators of these programs have standards that they have to meet. Certification shows that operators

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are competent. Also, having certification makes operators take ownership of their positions. And most importantly, because it is what I do!”

Teaching certification courses, administering exams, and processing certifications and renewals are clearly a team effort in the WRD. The team effort continues in 2014, with over 100 stormwater training dates scheduled across the state!

To learn more about the certified stormwater operator programs:

- For Construction Stormwater Operator visit www.michigan.gov/soilerosion and check out the first link under the “Training” header.
- For Industrial Stormwater Operator visit www.michigan.gov/deqstormwater and look under the “Certified Operator Training” header for several links of interest.

EARTH DAY 2014

Submitted by Pamela Howd, Office of Environmental Assistance

The Departments of Agriculture and Rural Development (MDARD); Environmental Quality (DEQ), Natural Resources (DNR); and Technology, Management and Budget (DTMB) together celebrated Earth Day on April 22, 2014 at Constitution Hall in Lansing, Michigan, with more than 2,000 participants and attendees. The participants included 26 school groups; children and staff of DEQ, DNR, DTMB, and MDARD were also here for Bring Your Child to Work Day; families and friends of Earth Day poster contest winners; partnering organizations; display workers and other visitors. The event featured 54 displays and activities. The atrium was colorfully decorated with many of the 3,000 Earth Day posters created by students. During the event, staff distributed 90 Teacher educational resource bags and 3,000 tree seedlings to Michigan youth, guests, and others. In addition, event supporters purchased 90 sets of Earth Day Poster Contest Greeting Cards.



Left photo: Earth Day poster contest winners. Right photo: Poster contest winner award ceremony participants and spectators. Photo credit: Debbie Graves, MDARD

ECONOMY, ENERGY, ENVIRONMENT INITIATIVE

Submitted by Laura Rauwerda, Office of Environmental Assistance

In 2010, the Office of Environmental Assistance received funds from the Pollution Prevention Grant Program, U.S. Environmental Protection Agency, Region 5 to support the development of the Economy, Energy, Environment (E3) Initiative in Michigan.

The E3 is a sustainable growth strategy to strengthen local manufacturing and promote job growth in the U.S. and Michigan. The Michigan funds have been utilized to accelerate the adoption of E3

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assessment recommendations to minimize solid and hazardous waste, utilize energy more efficiently, incorporate lean practices into business plans and supply chains, and promote local economic growth through workforce training and intern programs.

The E3 in Michigan provides access to tools and resources for manufacturers to effectively track and manage energy efficiency, waste reduction, and associated GHG and pollution reductions. Cost savings that occur with process modifications, equipment change-out, substitution, and pollution prevention are realized by the company and become an integrated part of their business growth strategy.

On September 17, 2014 in conjunction with National Pollution Prevention Week, Western Michigan University and others will partner with the Michigan DEQ to host Sustainable Manufacturing: Leading the Way to Prevention, Profit and the Future. The event will highlight stewardship, pollution prevention, economic benefit, and business growth successes of manufacturing companies in Michigan. Visit www.michigan.gov/deq/0,4561,7-135-3308_3333_4169_21606-324263-,00.html for more information.

2014 MICHIGAN ENVIRONMENTAL COMPLIANCE CONFERENCE

Submitted by Jennifer Acevedo, Office of Environmental Assistance

Are you responsible for making sure your organization is in compliance with Michigan's environmental regulations? If so, you should register today for the Michigan Environmental Compliance Conference, the DEQ's premier compliance assistance event, designed to help businesses and environmental professionals comply with their environmental requirements.

Conference Highlights:

- Four concurrent tracks with 24 sessions that cover waste and wastewater management, air quality requirements, remediation, pollution prevention, and other topics.
- Release of the 8th Edition of the "Michigan Guide to Environmental, Health, and Safety Regulations" developed by the DEQ and the Department of Licensing and Regulatory Affairs.
- "Expert Area" devoted to one-on-one assistance providing you an opportunity to network with DEQ, MIOSHA, and Michigan State Police staff and to get your questions answered.

You will not want to miss this training opportunity if you are responsible for making sure your company, municipality, or institution is in compliance with Michigan's environmental regulations. Environmental consultants, state and local officials, and anyone else interested in learning about Michigan's environmental regulations and how to comply are also welcome to attend. Whether you are new to the environmental field or an experienced veteran, the Michigan Environmental Compliance Conference has something for you.

Register today at www.michigan.gov/deqworkshops, click on "DEQ Workshops."

"I have attended Agency sponsored or cosponsored environmental conferences in Illinois, Wisconsin, and Iowa, and this conference was by far the best one I have attended."
– 2012 MECC Attendee

"I appreciate these conferences as an opportunity to keep up-to-date with the regulations. The DEQ staff is always extremely friendly and helpful. I really can not say enough good things about the DEQ Staff."
– 2012 MECC Attendee

"The sessions we attended drove us to rethink our existing plans / processes in light of new ideas and technology availability." – 2012 MECC Attendee

**FREE ITRC INTERNET
TRAINING COURSES****INTERSTATE TECHNOLOGY & REGULATORY COUNCIL***Advancing Environmental Solutions*

The Interstate Technology & Regulatory Council (ITRC) offers a wide variety of guidance documents and FREE internet-based training courses on innovative environmental technologies and approaches specific to the areas of site characterization, monitoring, and remediation as well as other environmental topics. Summarized below is the February, March, and April 2014 schedule of upcoming FREE Internet-based training courses provided by the ITRC. Archived training events from additional topics are also available for viewing and/or download. A complete list of course offerings can be found at **www.itrcweb.org/ibt.asp**

Upcoming Course Dates (registration opens 4 - 6 weeks in advance):

2-Day Classroom Training: Light

- May 13 - ISM Part 1: Soil Sampling and Decision Making Using Incremental Sampling Methodology 2:00 p.m. - 4:15 p.m. EASTERN TIME
- May 15 - ISM Part 2: Soil Sampling and Decision Making Using Incremental Sampling Methodology 11:00 a.m. - 1:15 p.m. EASTERN TIME
- May 20 - Mining Waste Treatment Technology Selection 2:00 p.m. - 4:15 p.m. EASTERN TIME
- May 22 - Biochemical Reactors for Mining-Influenced Water 11:00 a.m. - 1:15 p.m. EASTERN TIME
- June 10 - Use and Measurement of Mass Flux and Mass Discharge 2:00 p.m. - 4:15 p.m. EASTERN TIME
- June 12 - Integrated DNAPL Site Strategy 11:00 a.m. - 1:15 p.m. EASTERN TIME
- June 17 - Green and Sustainable Remediation 2:00 p.m. - 4:15 p.m. EASTERN TIME
- June 26 - Groundwater Statistics for Environmental Project Managers 2:00 p.m. - 4:15 p.m. EASTERN TIME

ITRC also offers classroom training:

Nonaqueous-Phase Liquids: Science, Management, and Technology

- June 3-4, 2014 in Lexington, KY - hosted by the Kentucky Department for Environmental Protection, Division of Waste Management in partnership with Kentucky Petroleum Marketers Association (KPMA). Register at **www.regonline.com/ITRC-LNAPL-KY** and save \$200 with early bird pricing through May 12
- October 29-30, 2014 in Richmond, VA - hosted by the Virginia Department of Environmental Quality. Register at **www.regonline.com/ITRC-LNAPL-VA**.

Note: All dates and times are subject to change – check **www.itrcweb.org** for the most up-to-date information.

Registration: **<http://clu-in.org/studio/seminar.cfm>** or at **www.itrcweb.org** - click on “Internet-based Training”. Course registration opens four to six weeks prior to each course offering.

Associated Guidance Documents: Available from **www.itrcweb.org**. You can download the ITRC guidance documents that are the basis for the training materials - click on “Guidance Documents”.

For additional information, please contact Michigan’s ITRC State Point of Contact (POC) **Sara Pearson** at **pearsons@michigan.gov** or **517-284-5138**.

EVENTS

2014 MONTHLY CONSTRUCTION STORM WATER OPERATOR/SOIL EROSION INSPECTOR TRAINING, VARIOUS LOCATIONS, MICHIGAN. The DEQ Water Resources Division will be hosting training and exams for Certification as a Construction Storm Water Operator. These half-day sessions will include a training video outlining inspector/certified operator requirements, best practices for soil erosion and sedimentation control, and common compliance problems found on construction sites. Not all information on the test is included in the training, so participants are expected to have read and understand the information presented in the "Certified Storm Water Operator and Soil Erosion and Sedimentation Control Inspector/Comprehensive Manual" chapters 1-5. The training will be followed by a fifty question, multiple choice exam. A score of 70 percent is required to pass and become certified. Complete Training and Exam schedules can be found on the web at www.michigan.gov/soilerosion and by clicking on the first link under the training header. Cost: \$95. Information Contact: **Sarah Ehinger**, WRD, **269-567-3515** or **ehingers1@michigan.gov**. To register, determine the training date and location you would like to attend and contact the district staff person for that location.

Date	Location
May 21	DEQ Gaylord District Office, Gaylord
May 21	DEQ Jackson District Office, Jackson
May 21	DEQ Southeast Michigan District Office, Warren
May 28	DEQ Grand Rapids District Office, Grand Rapids
July 10	DEQ Lansing District Office, Constitution Hall, Lansing
June 10	DEQ Saginaw Bay District Office, Bay City
June 10	DEQ Upper Peninsula District Office, Marquette
June 18	DEQ Kalamazoo District Office, Kalamazoo

MAY 20, 2014

10:00 - 11:00 AM

UNDERSTANDING MICHIGAN'S WATER QUALITY WEBINAR. This webinar will provide an overview of how the DEQ assesses surface water quality and what some of the most recent information tells us about the status of our surface water. The webinar will be of interest to anyone interested in the state-wide picture of Michigan's water quality and how it is arrived at by the DEQ's Water Resources Division, including the general public, watershed groups, municipalities, tribes, water use and water-related interests. Register online at www.michigan.gov/deqworkshops, click on "DEQ Webinars." Registration Information: **Environmental Assistance Center**, 800-662-9278 or deq-assist@michigan.gov.

2014 PTI SERIES

MAY 20, SEPTEMBER 3, NOVEMBER 6

AIR PERMIT-TO-INSTALL APPLICATION TRAINING, CONSTITUTION HALL, LANSING, MICHIGAN. Attend this workshop to learn more about how to complete the air Permit-to-Install Application. The workshop includes a general question & answer session, and for those who are "project ready," the opportunity to meet with a permit engineer for individual assistance on your specific application. Registration fee is \$45 and includes workshop materials. Updated workshop information and registration is available on the Web at www.michigan.gov/deqworkshops, click on "DEQ Workshops". Information Contact: **James Ostrowski**, Office of Environmental Assistance, 517-284-6870 or ostrowskij2@michigan.gov. Registration Information: **Environmental Assistance Center**, 800-662-9278 or deq-assist@michigan.gov.

MAY 22, 2014

U.P. GREEN EXPO, HOLIDAY INN, MARQUETTE, MICHIGAN. Through new forms of business-to-business collaboration, U.P. Green has partnered with the Sustainable Research Group, the Michigan Clean Corporate Citizen Program and the Michigan Green Communities Challenge to deliver programs and resources that help businesses and communities reduce energy and resource costs, uncover new business opportunities and address everyday operational challenges in a green and cost-effective manner. Keynote Speakers include Tom Murray from the U.S. EPA, Mary Ellen Mika from Steelcase, Jeff Spencer from the DEQ, and Bill Stough from the Sustainable Research Group. For more information, go to www.upgreenrecycling.com/U-P-Green-Expo.html, email info@UPGreenRecycling.com, or call 888-322-1030.

MAY - JUNE 2014**2014 MICHIGAN ENVIRONMENTAL COMPLIANCE CONFERENCE, VARIOUS LOCATIONS, MICHIGAN.**

The Michigan Environmental Compliance Conference (MECC) is the DEQ's premier compliance assistance event designed to help businesses and environmental professionals comply with their environmental requirements. The 2014 MECC will offer 4 concurrent tracks with 24 sessions that cover waste and wastewater management, air quality requirements, remediation, pollution prevention and other topics. Whether you are new to the environmental field or an experienced veteran, this conference has something for everyone! All conference attendees will receive the new 8th Edition of the Michigan Guide to Environmental, Health, and Safety Regulations. Updated conference information is available on the Web at www.michigan.gov/deqworkshops, click on "DEQ Workshops." Information Contact: **Jim Ostrowski**, Office of Environmental Assistance, 517-284-6870 or ostrowskj2@michigan.gov. Registration Information: **Environmental Assistance Center**, 800-662-9278 or deq-assist@michigan.gov.

Date	Location
5/29/14	Grand Traverse Resort, Traverse City
6/5/14	GVSU Eberhard Center, Grand Rapids
6/10/14	Laurel Manor, Livonia

JUNE 12, 2014**SAGINAW BAY WATERSHED CONFERENCE, SAGINAW VALLEY STATE UNIVERSITY'S CURTISS HALL,**

SAGINAW, MICHIGAN. This Conference is hosted by the MSU Planning & Zoning Center and its partners. Todd Ambbs, Campaign Director of Healing Our Waters, will provide a holistic perspective on Great Lakes water quality, while Jon Allan, Director of the Office of the Great Lakes, will discuss the new Michigan Water Strategy. John Austin, Director of the Michigan Economic Center at the Prima Civitas Foundation, will explore Michigan's water assets and the potential for creating and growing the State's Blue Economy. This Conference is a follow-up to the March 2012 Saginaw Bay Watershed Conference that attracted 220 individuals concerned with the water quality and the overall health of the Saginaw Bay. To register for the conference, please visit www.landpolicy.msu.edu/2014saginawbaywatershedconference.

JUNE 2014

WASTE CHARACTERIZATION WORKSHOPS, VARIOUS LOCATIONS, MICHIGAN. The DEQ is hosting two workshops to explain the process of characterizing business waste. The Waste Characterization Workshop will expand on the basic concepts and principles provided in the Introductory Webinars and the Waste sessions featured at the upcoming 2014 Michigan Environmental Compliance Conference. This half-day workshop will focus on hazardous and liquid industrial waste and will provide information on the basic waste characterization concepts, including practical details to use when evaluating any waste. Environmental, health, and safety professionals at small quantity and large quantity generators of hazardous waste and anyone who manages waste for their business or institution will benefit from attending this training. Topics will include: point of origination or when a waste first becomes subject to regulation; hazardous waste exclusions, where they are cited, and when you can use them;

how to determine whether your waste meets the land disposal restrictions, needs to be treated before disposal, and how to determine the underlying hazardous constituents in your waste; how to determine when a listing applies and when generator treatment is an option; and how to collect random samples, what analysis is required, and when you can use less costly analysis method. Although solid waste will not be covered in the presentations, technical staff will be available on site. Updated workshop information is available on the Web at www.michigan.gov/deqworkshops, click on "DEQ Workshops." Information Contact: **Christine Grossman**, Office of Environmental Assistance, **517-284-6860** or grossmanc@michigan.gov. Registration Information: **Environmental Assistance Center**, **800-662-9278** or deq-assist@michigan.gov.

Date	Location
6/24/14	Fetzer Center, WMU, Kalamazoo
6/26/14	MSU Management Education Center, Troy

You can check out upcoming webinars and link to recordings of past webinars at www.michigan.gov/deqworkshops (click on "DEQ Webinars").

*If you are interested in participating in the development of or exhibiting at any Office of Environmental Assistance event, please contact **Matt Tomlinson** at **800-662-9278** or tomlinsonm@michigan.gov.*