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**Michigan Water Environment Association**  
P O Box 397  
Bath, MI 48808

# **MWEA Biosolids & IPP Joint Conference**

## **Improving Opportunities for Beneficial Use: An Aerial Perspective**



Photograph provided by Air Zoo Kalamazoo, MI

**September 27 & 28, 2011**  
**Clarion Hotel & Air Zoo - Kalamazoo, MI**

Wastewater CECs Available:  
Technical - 0.6 Managerial - 0.4, Course Code: 1179  
Continuing Septage Education - CSEs - 12.75 hours



## Featured Speaker:

The featured speaker is Dr. Rufus Chaney, renowned research agronomist with the United States Department of Agriculture. Dr. Chaney works in the Animal Manure and By-Product laboratory in Beltsville, MD. He has worked on risk assessments for metals in biosolids, soils and crops, and invented the concept of soil metal phytoextracton. His research has also involved using biosolids to restore ecosystems on phytotoxic (specifically Zn, Pb, Ni) waste sites. Dr. Chaney understands and will discuss the importance of the relationship between industrial pretreatment and biosolids as well as provide insight into organic pollutant risk assessment and impacts/bioavailability of heavy metals on sustainable land application.

## About this Conference:

This unique conference provides an opportunity for professionals in both Industrial Pretreatment and Biosolids to interact with one another and recognize the critical relationship that each plays in the wastewater industry. Successful industrial pretreatment programs greatly contribute to successful biosolids programs, which in turn benefit the community at large.

This conference is designed to allow attendees to better understand their role in a larger context by providing topics relevant to both programs. Speakers from the USDA, USGS, MDEQ, International Plant Nutrition Institute as well as consultants and researchers will provide a diverse perspective. In addition, tours will be offered at local facilities showcasing industrial and community wastewater stewardship practices.

Please join us for this exciting, innovative conference!

## Who should attend?

This conference is intended for professionals in both the Industrial Pretreatment and Biosolids work arenas, as well as those interested in understanding the relationship between the two groups.

- Engineers, Consultants
- Public and private wastewater professionals
- Managers, policy makers, industrial waste treaters
- Emergency responders and public works personnel

## MWEA Biosolids - IPP Joint Conference - September 27 & 28, 2011

Register online at: [www.mi-wea.org](http://www.mi-wea.org) - Registration is for Conference Only (call Hotel for accommodations)

Name: \_\_\_\_\_

- MWEA/WEF Member. \$195.00 on or before Aug. 27, 2011  
\$225.00 after Aug. 27, 2011

Employer: \_\_\_\_\_

Membership #: \_\_\_\_\_

Address: \_\_\_\_\_

- Nonmember \$ 253.00 on or before Aug. 27, 2011

\$ 283.00 after Aug. 27, 2011

City, State, Zip: \_\_\_\_\_

(Want a FREE membership? see below)

- Check this box to receive a one-year complimentary MWEA Membership with the **non-member rate**.

Daytime Telephone: \_\_\_\_\_

**Please choose which Tour you will attend:**

- Route 1 - Plainwell WWTP and Bells Brewing  
 Route 2 - Coca Cola and St. Julian Winery

- Check this box for vegetarian meals

**Registration confirmations are sent via email only.**

- \$50.00 - *Air Zoo Dinner* - Spouse - Guest

Email: \_\_\_\_\_

### PAYMENT OPTIONS

In order to receive CECs for this conference you must attend both days starting at 9:25 a.m. on Tuesday and 8:30 a.m. on Wednesday. If you are more than 30 minutes late or leave early, you will not receive CECs for this conference.

Check Enclosed \$ \_\_\_\_\_ (payable to MWEA)

Charge \$ \_\_\_\_\_ Visa MasterCard Amer. Exp

Billing Address \_\_\_\_\_

Account Number: \_\_\_\_\_

Expiration Date: \_\_\_\_\_

Signature: \_\_\_\_\_

**MWEA P.O. Box 397- Bath, MI 48808**

**Phone: 517.641.7377 Fax: 517.641.7388**



**Location:**

**Clarion Hotel**  
3600 E. Cork St.  
Kalamazoo, MI 49001  
269-385-3922

From East or West take I94 to exit 80, E. Cork St.  
toward Sprinkle Rd., Turn left on E. Cork St.

**Attention:**

To ensure overnight room availability at the Clarion Hotel, please contact the hotel and mention this MWEA seminar for the \$79.00 per night rate by August 27, 2011.

**Tuesday Evening**

September 27th

*Air Zoo*

6151 Portage Road  
Portage, MI 49002

*(Transportation to and from Air Zoo will be provided)*



**You must be registered for this seminar to attend this event.**  
**Spouses or Guests can attend for \$50.00 (dinner included)**

An evening dinner reception at the Kalamazoo Air Zoo will allow attendees to interact with vendors and learn and explore aviation history. Both Industrial Pretreatment and Biosolids Awards will be presented during the dinner.

**Wastewater CECs available:**

**Technical - 0.6 Managerial - 0.4, DEQ Course Code: 1179**  
**Continuing Septage Education - CSEs - 12.75 hours**

**Registration Deadline:**  
**September 20, 2011**

**Agenda**

**Tuesday, September 27, 2011**

- 8:30 **Registration**
- 9:25 **Opening Remarks** - Steve Mahoney, Aaron Vis, Jerry Harte
- 9:30 **Status of PPCP Research in Biosolids and Michigan Waters**  
Dr. Sheridan Haack, USGS
- 10:10 **Pharmaceutical Sustainability Initiatives**  
Duane Hagen, CEA, Energy & Systems Optimization, MPI Research
- 10:45 **Break** - Visit Vendors
- 11:00 **Municipal/Industrial Partnerships in WWTP Expansion**  
Mike Wetzel, Kalamazoo, WWTP
- 11:15 **How to Use Local Limits to Attract and Keep Jobs**  
Rich Grant & Carey Bond, Fleis and Vandenbrink
- 12:00 **Lunch** - provided
- 12:45 - 5:15 **Tours**

**Route 1**

Plainwell WWTP  
Bells Brewing

Hear and see how Plainwell dealt with several IPP issues that affected biosolids quality, followed by a overview of brewing and QC process at Bells.

**Route 2**

Coca Cola  
St. Julian Winery

Tour the bottling and wastewater plants at Coke as well as learn about the wine-making process during the "crush " at St. Julians.

6:00 - 10:00 **Air Zoo Dinner Reception - Award Ceremonies**

"Red" Baron of Biosolids: presented by Graham Chapman  
IPP Professional of the Year: presented by Allen Bryant  
Opening - Dinner Speaker - Kari Saganski, MWEA President

**Wednesday, September 28, 2011**

- 7:30 **Registration** - Continental Breakfast included with Hotel Stay
- 8:30 **Depletion of Global Phosphate Rock Reserves and Resources**  
Dr. Tom Bruulsema, International Plant Nutrient Institute
- 9:15 **Risk Characterization, Assessment and Management of Organic Pollutants in Beneficially Used Residual Products**  
Rufus Chaney, USDA

Wednesday, September 28, 2011 - continued

10:00 **Break - Vendor Networking - Continental Breakfast**

<u>IPP Breakouts</u>	
10:20	<b>Cloud Computing and Data Management in the 21st Century</b> Ben Peters, LINKO
11:05	<b>Importance of Emergency Management/Spill Plans</b> Bob Babcock, MDEQ
11:50	<b>Lunch</b> - provided
1:00	<b>How the Results Weighed In: Investigating an Illegal Discharger</b> Brian Ross, GCDCWWS Jack Keys, SCCMUA Bernie Sheff P.E., UTS Residual Processing
1:45	<b>The New Hg Law and Amalgam Separator Grant Process</b> Maggie Fields, Grace Scott, DEQ

<u>Biosolids Breakouts</u>	
10:20	<b>Struvite Case Study</b> Jerry Thaler, FT&H
11:05	<b>Heavy Metal and Trace Element Chemistry in Residual-Treated Soil: A Review of Impacts on Metal Bioavailability on Sustainable Land Application</b> Dr. Rufus Cheney, USDA
11:50	<b>Lunch</b> - provided
1:00	<b>Micro/Macro Nutrient Soil Deficiencies</b> Dr. Matt Clover Agrium Advanced Technologies
1:45	<b>Biosolids: Marketing your Product</b> Nick Szabo, Ferthaul Michigan LLC

2:30 **Break - Vendor Networking**

2:45 **Arsenic: Municipal Industrial Sources and Biosolids Sinks**  
Mike Person, MDEQ

3:15 **Break - Vendor Networking**

3:30 **How to Handle Difficult Situation in the Public Realm**  
Charlie Fleetham, Project Innovations

4:15 **Adjourn - Complete Evaluation - Turn in CEC slips in envelope**

**Cancellation Policy:**

If MWEA cancels, full refunds will be issued. If registrant cancels 10 days or more before program, a 100% refund will be issued. If cancellation is less than 10 days before program, fees based on expenses will apply. No refunds are made if cancellation is after program date. Registration can be transferred to another person in your organization anytime. All changes must be communicated to the MWEA office at 517-641-7377.

*Event Sponsors:*

*(at time of print)*

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*Registration, Payment and Additional Information, contact:*  
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