

Sponsored by:

26th Annual
Conference on the Environment

*“Managing in a Time of
Regulatory Uncertainty”*

Co- Chairs:

Greg Archer, AWMA

Ted Field, CSWEA



Central States
Water
Environment
Association
Minnesota Section



Air & Waste Management
Association
Upper Midwest Section

PLANNING COMMITTEE

- Greg Archer and Ted Field, Co-Chairs
- Jason Benson
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- Mike Hansel
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- Eric Lecuyer
- Kevin Newman
- Rob O'Connell
- Dick Ottman
- Clay Raasch
- Mark Stone
- Chandler Taylor
- Carolyn Wacker
- Li Zhang

STUDENT FOCUS: ENVIRONMENTAL CHALLENGE

3rd Annual Environmental Challenge

- Real-life multimedia problems and solutions
- Open to undergraduate students in engineering and science programs
- Expert panel of judges to provide technical review

Student Finalists - 1:30-3:00pm (Carriage Hall B)

Awards – 4:45-5:00pm (Carriage Hall B)

STUDENT FOCUS: GRADUATE STUDENT POSTER PRESENTATIONS

Srijan Aggarwal:

- 1) Mechanical Properties of Bacterial Biofilter;
- 2) Real time prediction of size resolved ultrafine PM on Minnesota Freeways

Greg LeFevre: Fate of Stormwater Petroleum Hydrocarbons in Bioretention Cells

Andrew Resorla: Geosmin removal in a lime softening plant by powdered activated carbon

Katheryn Wilkinson: Investigation of Geosmin-Degrading Bacterial Communities on Full-Scale GAC Filters

Tucker Burch: Persistence of Tetracycline Resistance Determinants in Soil Amended with Residual Wastewater Solids

TECHNICAL PROGRAM

- Great lineup of keynote addresses and technical speakers
- Strong focus on technical content and current policy issues
- Ample time for breaks, discussions with vendors, and networking opportunities

2011 CONFERENCE EVALUATION & CEU FORMS

EVALUATION
24th Annual Conference on the Environment
 MN – CSWEA and A&WMA – UMS
 Thursday, November 12, 2009
 Earle Brown Heritage Center – Brooklyn Center, MN

Thank you for taking the time to evaluate this conference. *Please rate each speaker on a scale of 1 to 5, with 5 being the highest.*

KEYNOTE SPEAKER	RATING (1-5)				
	1	2	3	4	5
Senator Ellen Anderson, Minnesota Senate – Minnesota Legislative Update					
Session 1: Carbon Technology/Policy (A.M.)					
Carbon Legislation and the Clean Air Act: What's Next? – Ann Seha, Dorsey & Whitney LLP					
Biomass Feedstock and the Mogyan Lipid Conversion to Biodiesel – Dr. Clayton McNeft, Evercat Fuels					
Carbon Neutral Generation – Bob Sandberg, Great River Energy					
Session 2: Water Regulatory Update (A.M.)					
Nondegradation Rulemaking Update – William Cole, MPCA					
Monitoring of Pharmaceuticals and Endocrine Disrupting Compounds in Surface Water – Mark Ferrey, MPCA					
What's on the Horizon for Nitrogen Limits – Phil Morison, MPCA					
Session 3: Wastewater – Liquids (A.M.)					
Recovery of Nutrients at the Empire WWTP using Ocatara's PEARL Process – Chris Howarth, Ocatara					
Case Study: Clinton Emergency Bar Screen Replacement Project – Mathew Wildman, Howard R. Green Co.					
Central States Industrial Wastewater Treatment Award Winner: Central States Industrial Wastewater Treatment Award Winner: Matt-O-Meat – Katy Giltsipe and Tom Kieve, Matt-O-Meat					
LUNCH SPEAKER					
Jonathan Foley, Director of Institute on Environment (IorE), U of M – Challenges & Opportunities for a Sustainable Future					
Session 4: Environmental Challenge (P.M.)					
Student Finalists					
Student Finalists					
Session 5: Permit Risk Management (P.M.)					
PM2.5 Then and Now – Kathryn Anderson, Wenck Associates					
Ready, Aim, Defend: Preparing for an Air Enforcement Action – Thaddeus Lightfoot, Environmental Law Group					
Continuous Compliance, Revisited: Living without the MACT SSM Exemption – Carolyn Wacker, 3M					
Session 6: Wastewater – Solids (P.M.)					
Waste Solids Reduction Technologies: Current Developments and Future Trends – John Borghesi, CH2M HILL					
Moorhead Solids Treatment Upgrade: Thickening & Anaerobic Digestion Process Improvements – Doug Youngblood, CDM					
The Effect of Enhanced Anaerobic Digestion on the Removal of Estrogenicity Compounds – Patrick McNamara, UofM					
Session 7: Energy (P.M.)					
Energy Garden Approach to Integrated Management of Organic Wastes – Jim Postiglione, Howard R. Green Co					
Identifying Hidden Energy Losses in Industrial Manufacturing Facilities – Steven Schuttz, 3M					
25x2025 energy Usage Reduction Plan for the School District & Village of Osceola – Timm Johnson, Osceola 25 by 2025 Projects					
Session 8: Air Regulatory Update (P.M.)					
MPCA Air Regulatory Updates – Anne Jackson & Catherine Neuschier, MPCA					
Session 9: Stormwater and Conveyance (P.M.)					
Innovative Stormwater Management at Empire WWTP – Karen Jensen, MCEs					
SWMMing Through the Data: Using Dynamic Software Models to Evaluate Sanitary Systems – Jonathan Kusa, Howard R. Green Co.					
Please check which organization(s) you are a member of: CSWEA MN Section <input type="checkbox"/> AWMA, Upper Midwest Section <input type="checkbox"/>					
How would you rate the overall conference program?					
How would you rate the conference facilities and food service?					
How would you rate the location of the conference?					
What topics would you like included next year?					
Would you like to be on a planning committee for the 2010 Conference on the Environment? (please leave name, phone, address, email address on back)					Y, N, Maybe

If you have any other comments, ideas for future notes, speakers, and/or suggestions, please write them on the back.

CERTIFICATE OF COMPLETION ISSUED TO

IN RECOGNITION OF SATISFACTORY COMPLETION OF THE

24th Annual
Conference on the Environment

"Environmental Progress in a Changing World"

Earle Brown Heritage Center, Brooklyn Center, Minnesota

November 12, 2009

Co-Sponsored by:

Air & Waste Management Association
 Upper Midwest Section
 and
 Central States Water Environment
 Association - Minnesota Section



Approved for _____ Professional Development Hours
 OR _____ Contact Hours Credit
 OR _____ Continuing Education Units
 (Only one blank should be utilized)

Refer to program agenda for information regarding specific program and presenters. The Upper Midwest Section of the Air & Waste Management Association and Central States Water Environment Association Minnesota Section have determined that this activity meets the State of Minnesota Board of Registration Continuing Education Requirements as published in M.S. 326.107 (1999). The Minnesota Board of Architecture, Engineering, Land Surveying, Landscape Architecture, Geosciences and Interior Design (Board of AELSLAGID) has final authority to approve all activities claimed as professional development. It is the responsibility of the registered professional to retain all records and reporting information to assure appropriate documentation.

CSWEA AND A&WMA WOULD LIKE TO THANK OUR 2011 SPONSORS:



2011 CORPORATE ENVIRONMENTAL CHALLENGE SUPPORTERS



3M

The logo for 3M, consisting of the letters '3' and 'M' in a bold, red, sans-serif font on a white background.

VISIT OUR EXHIBITORS...

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- Heritage Environmental Services
- HR Green
- Pace Analytical Services
- TestAmerica
- Trinity Consultants
- Wenck Associates, Inc.

CSWEA NEWS FLASH



LIQUID ASSETS

MINNESOTA

"A Documentary Film About Minnesota's Critical Water Infrastructure"

Central States Water Environment Association-Minnesota Section
City of Duluth Minnesota
West Central Initiative
American Planning Association MN
Minnehaha Creek Watershed District
Advanced Engineering and Environmental Services, Inc. (AE2S)
Minnesota American Water Works Assoc
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FEATURED SPEAKERS

Lunch Address: Brad Moore, Executive VP PolyMet Mining Corporation
"Ignoring the Voice of the GPS: How to Handle Unexpected Detours without Getting Lost in Environmental Review and Permitting."

Morning Address: Paul Aasen, MPCA Commissioner
"Where to Start? Moving from Certainty to Uncertainty."