

MAWD 2014 Annual Meeting & Trade Show



December 4-6, 2014
Arrowwood Conference Center
Alexandria, MN

Your Invitation!

**Minnesota Association of Watershed Districts
2014 Annual Meeting & Trade Show
Arrowwood Conference Center
December 4-6, 2014**

Introduction

The MAWD 2014 Annual Meeting & Trade Show offers a strong seminar program to meet the needs of watershed district officials, staff and key watershed district partners.

MAWD program includes:

- ◆ *Four general concurrent sessions*
- ◆ *Two technical seminars*
- ◆ *Total of sixteen different seminars*
- ◆ *Four staff development seminars*
- ◆ *Trade Show with over 40 exhibitors*
- ◆ *Thursday evening Welcome Reception*
- ◆ *Door prizes!*
- ◆ *Four pre-conference workshops Thursday, December 4*

MAWD 2014

Annual Meeting & Trade Show

Event	Page #
Welcome Reception - Thursday at 8:00 pm _ _ _ _ _	6
Annual Meeting Programming _ _ _ _ _	6 - 12
Spouses Craft Creation _ _ _ _ _	7
Two ADA Technical Seminars _ _ _ _ _	7
Four Pre-Conference Workshops _ _ _ _ _	14-17
Pre-Conference Workshops Registration Form _ _ _ _ _	13
MAWD Annual Meeting Registration Form _ _ _ _ _	18
Arrowwood Conference Center Reservation _ _ _ _ _	19

Minnesota Association of Watershed Districts

2014 Annual Meeting & Trade Show

December 4-6, 2014

Arrowwood Conference Center, Alexandria, MN

Registration

MAWD Annual Meeting Registration form on page 18 - due November 21

Registration fee - \$185.00 per person includes all conference meals for registrant.

There is no registration fee for spouses/guests.

Meal package or banquet tickets for spouse/guest are available on the registration form - page 18.

Late registration (postmarked after November 21) fees are **\$200.00** per person. \$25 processing fee on all refunds. No refunds after November 28, 2014

Arrowwood Conference Center

2100 Arrowwood Lane

Alexandria, MN 56308

Arrowwood Reservation Form

Page 19

Hotel Reservation deadline

November 21

NOTICE:

The MAWD Board wishes to remind members that watershed districts are not permitted to cover expenses for spouses and guests. This is in accordance with recent State Auditor findings and the Minnesota Constitution which states "taxes shall be uniform . . . and shall be levied and collected for public purposes."

MAWD 2014 Annual Meeting & Trade Show

Program Schedule

Thursday, December 4, 2014

3:00 p.m. MAWD Directors Meeting — Executive Board Room II

6:00 - 9:00 p.m. Registration, Trade Show Floor

6:00 - 9:30 p.m. MAWD Trade Show - Tennis Center

7:00 - 8:00 p.m. Concurrent General Session I

Seminar A: South Washington Conservation Corridor; Re-establishing Historic Watershed Connections

Historically, the South Washington Watershed District's 15,000 acre Northern Watershed (NWS) drained through what remains of an inter-glacial river valley to the Mississippi River. Settlement and development cut off that connection for all but the largest rainfall events. As a result, the NWS is currently landlocked and neighborhoods surrounding the southern edge of the NWS face an increasing flood risk. After 20 years of planning, SWWD is in the process of re-establishing that connection. The South Washington Conservation Corridor project, which will be complete by 2020, incorporates over 200 acres of restored prairie, provides nearly 1500 Ac-Ft of storage for flood control and regional infiltration, completes regional greenway and trail connections, and will restore the valley connecting the NWS to the Mississippi River. We will discuss the need for the project, watershed and geologic characteristics that make the project possible, and the many benefits of this unique combined use system.

Presenters: John Loomis, Matt Moore – South Washington Watershed District

Seminar B: Converting WRAPS for Local Use: BMP Implementation Scenarios for Nutrients, Sediment, and Altered Hydrology

All 81 major watersheds within Minnesota will have a WRAPS developed. Local water managers are in need of tools and techniques to develop Prioritized, Targeted, and Measurable plans that incorporate the results of WRAPS. This presentation will demonstrate how water quality modeling results from the Hydrologic Simulation Program Fortran (HSPF) and terrain analysis products derived from LiDAR data can be used in developing funding requests and plans under the 1 Watershed 1 Plan effort. The case study examples will also show how targeted BMPs can be "measured" for their water quality benefits. In addition, a new method for setting *altered hydrology* management goals will be presented. These methods are expected to increase opportunities for project funding.

Presenters: Drew Kessler, Houston Engineering, Inc, Charles Fritz, International Water

Seminar C: Restoration and Stabilization of Hardwood Creek

Hardwood Creek was listed as impaired for biota in 2002. Using the EPA's Stressor Identification Process, it was found that low dissolved oxygen and loss of habitat due to sedimentation were the primary stressors driving the impairment. Following the completion of the Hardwood Creek TMDL and Implementation Plan, the Rice Creek Watershed District acquired a Federal 319 grant to complete the Hardwood Creek TMDL Implementation Project. This project, finalized in 2014, was designed to decrease sedimentation caused by stream instability, increase habitat diversity, and mitigate impacts from livestock. Primary project features include stream meander restoration (i.e. restoring meanders to a channelized portion of the creek), creating a 2-stage channel (i.e. a floodplain bench) to address channel incision and instability, and livestock management BMP's. Post-project geomorphic monitoring indicate a more stable channel, with greatly improved habitat. Secondary project benefits include reduced phosphorus delivery to downstream Peltier Lake, which is also impaired.

Presenter: Matt Kocian, Lake and Steam Specialist, Rice Creek Watershed District

Seminar D - Staff Development:

Multiple Management Uses of Data from an Automated Monitoring Network in a 6-mile Urban Storm-water Tunnel

Since 2004, Capitol Region Watershed District in St. Paul, Minnesota has operated a comprehensive network of automated stormwater monitoring sites to evaluate stormwater flow through the Trout Brook Storm Sewer Interceptor (TBI), a 6-mile stormwater tunnel draining over 5,000 acres of a fully urbanized area to the Mississippi River. TBI water quantity and quality data has been continuously collected, recorded, and analyzed by CRWD from 2004 to 2014, characterizing trends in total discharge, pollutant loading, and climatic patterns. The data has been utilized to inform a variety of projects, including: Hydrologic and Hydraulic model calibration for flood prediction and improved operation and maintenance of the TBI; loading calculations for the South Metro Mississippi River Turbidity TMDL; and loading calculations for minor subwatersheds of TBI to inform management decisions, such as the identification of optimal locations for stormwater best management practices.

Presenter: Britta Suppes, Monitoring Coordinator, Capitol Region Watershed District,
Bob Fossum, Program Manager, Capitol Region Watershed District

Welcome Reception

8:00PM Trade Show Floor

Exhibitors, food and prizes

Friday, December 5, 2014

7:00 - 9:00 a.m. Breakfast Buffet - Tennis Center

7:30 a.m. Resolutions Committee Meeting

8:00 a.m. Registration - Trade Show Floor

8:00 a.m. MAWD Trade Show - Tennis Center

8:00 a.m. **Plenary Session – Watershed District Messaging Panel Session**

- Successfully conveying our local watershed district message to our public on projects and programs we work with every day is the key to our effectiveness as water managers. MAWD has been working to define key messages and what they aim to accomplish:

- Establish watershed districts' authority and governance
- Define the roles and responsibilities of watershed districts
- Explain why watershed districts are best suited to fulfill these responsibilities
- Differentiate watershed districts from other organizations that the public perceives to be similar, highlighting the value of watershed districts

Hear and discuss how those key messages can be applied in our day to day water management activities.

Presenters: Kevin Bigalke, Nine Mile Creek WD Administrator
Brian Johnson, South Washington WD Manager

9:00 a.m. **MAWD Business Meeting** - Presiding - President Jerome Deal

- * President's Report, Jerome Deal
- * Secretary's Report, Lee Coe
- * Treasurer's Report, Craig Leiser
- * Presentation of 2015 Recommended Budget, Craig Leiser
- * BWSR Report

Friday, December 5, 2014 continued

9:00 - 10:00 a.m. Concurrent Association of District Administrators Technical Sessions

Tech Session I - Sorting Through the WRAPS / TMDLs / 1W1P Confusion - What You Need to Know to Implement Projects

Watershed Restoration and Protection Strategies (WRAPS), Total Maximum Daily Loads (TMDLs) and now One Watershed, One Plan (1W1P) - good gracious what is next? Constructing projects to improve water quality, reduce flood damages and improve ecological integrity is presumably one the main goals of Watershed Districts. Recently, it seems like much of the focus in the watershed world is on tools, rather than the use of these tools to identify the best locations for potential projects and demonstrate their use to maximize the chance of project funding at the state level. This presentation will show you have to navigate the WRAPS / TMDLs / 1W1P Confusion to increase your chances of securing funding and building projects, whether the project is intended to reduce flooding, improve water quality, or enhance habitat.

Presenter: Mark Deutschman, Houston Engineering

Tech Session II - The Envision Rating System: A Tool for Sustainable Infrastructure Design

The Envision(tm) rating system is a project assessment and guidance tool for sustainable infrastructure design. It is an objective framework of criteria and performance achievements that helps users identify ways in which sustainable approaches can be used to plan, design, construct, and operate infrastructure projects. Envision(tm) provides an opportunity for infrastructure owners and designers to be recognized for using a life cycle approach, working with communities, and using a restorative approach to infrastructure projects.

Presenters: Erin Anderson Wenz, Barr Engineering
Nathan Campeau, Barr Engineering

9:30 AM Spouses Take Home Craft Creation

Natalie's Creations - something fun and creative to take home for the holidays.
All supplies provided. Finish just in time for lunch with the managers.

10:00 a.m. Break - MAWD Trade Show Floor - Tennis Center

10:30 a.m. 2014 Resolutions Committee Report

11:30 a.m. Regional Caucuses
Region I
Region II
Region III

Administrators Meeting

12:15 p.m. Buffet Luncheon - Tennis Center
Special Guest Speaker – TBD

DNR Watershed District of the Year Award
BWSR Watershed District Employee of the Year

Friday, December 5, 2014 continued

1:30 p.m. Break - MAWD Trade Show Floor

2:00 – 2:45 p.m. Concurrent General Session II

Seminar A - RWMWD BMP Maintenance Pilot Program: Assessing BMP Maintenance

RWMWD has had volume reduction requirements in place since 2006. Developers install multiple BMPs on their projects to comply with these requirements and maintenance has been an ongoing struggle. RWMWD began the BMP Maintenance Pilot Program in 2013 to determine the average cost of maintenance per BMP and to determine the feasibility of implementing a maintenance program in the future to assist our Cities with this issue.

RWMWD hired a landscape company to perform routine maintenance on a variety of BMPs. Detailed documentation of completed maintenance was kept to assess what maintenance was done, materials used, and how much time was spent at each BMP. 2013 results were assessed to determine how maintenance costs vary depending on BMP size, age, and starting conditions. The maintenance program is continuing in 2014 to compare costs with Year 1 results. Year 2 maintenance will be substantially complete by early October 2014.

Presenter: Paige Ahlborg, Watershed Project Manager

Seminar B: Identifying Priority Management Zones for BMP Implementation in Impaired Watersheds

Small portions of the agricultural landscape can have a disproportionately large impact on water quality. Identifying these areas is essential if to meet clean water goals. Priority Management Zones (PMZs) are regions of the watershed targeted for conservation practices that address potential large pollutant loads. PMZs can be characterized by three areas of emphasis: source reduction, interception treatment, and in-channel assimilative capacity. Minnesota Department of Agriculture funded this project to thoroughly evaluate new tools and technology that can target conservation practice implementation on portions of the landscape with greatest potential for pollutant reductions. A compendium of assessment tools and decision-support guidance for identifying CSAs and delineating PMZs were developed. Case study examples representing several of Minnesota's agroecoregions will be presented to illustrate how various GIS tools, models and indices can be combined with site evaluation protocols to further target and prioritize candidate areas for implementation of conservation practices.

Presenters: Greg Wilson, Senior Water Resources Engineer, Barr Engineering Company
Ben Ruley, GIS Conservationist, Stearns County SWCD

Seminar C. Minnesota's *Flood Hazard Mitigation Grant Assistance Program* – Increasing Community Resiliency through Flood Risk Reduction

In Minnesota, there have been 41 flood-related federal disaster declarations between 1957 & 2014. Since 1987, Minnesota's *Flood Hazard Mitigation (FHM) Grant Assistance Program* has cost-shared with local units of government on flood risk reduction projects large and small, with the objective of increasing community resiliency to flooding. These projects include acquisition and removal of flood-prone structures, as well as construction of levees, floodwalls, diversions, pumping stations, impoundments and other structural improvements. Over 3,500 structures have been removed from the floodplain and many thousands more protected by public improvements.

These cooperative efforts have significantly reduced the risk of public and private property damage and loss of life associated with flooding in these communities, and further result in improved quality of life and economic viability. This presentation will provide an overview and history of the Minnesota FHM program, and some of the successes and challenges experienced since its inception in 1987.

Presenter: Patrick Lynch, Hydrologist – State of Minnesota, Department of Natural Resources

Friday, December 5, 2014 continued

Seminar D – Staff Development:

Bald Eagle Lake Watershed Stormwater Reuse/Phosphorus Reduction Project

The Bald Eagle Lake TMDL identifies a 38% reduction (809 pounds) in watershed phosphorus loading to meet state standards. 75% of the annual phosphorus load to Bald Eagle Lake originates from the project subwatershed, making it the highest priority area for phosphorous reduction. This project collects stormwater runoff from a 915-acre subwatershed to irrigate 116 acres at Oneka Ridge Golf Course. Estimates indicate between 50 and 200 acre-feet of runoff volume will be re-used annually for irrigation and up to 100 acre-feet of additional infiltration will occur as a result of this project. This will lessen the golf course's dependency on groundwater for irrigation by up to 50% (15 million gallons) and reduce the phosphorus load to Bald Eagle Lake by between 75 and 225 pounds annually. This project represents one significant demonstration of groundwater conservation in the northeast metro while also improving water quality in Bald Eagle Lake.

Presenters: Phil Belfiori, Administrator,
Kyle Axtell, Water Resource Specialist, Rice Creek Watershed District,
Pete Willenbring, P.E., President of Municipal Services, WSB & Associates, Inc

2:45 - 3:15 p.m. Break - MAWD Trade Show Floor

3:15 - 4:00 p.m. Concurrent General Session III

Seminar A: Bacterial Source Tracking in the Lambert Creek Watershed – An Integrated Approach to Identifying and Reducing Bacterial Loads to Meet Regulatory Requirements

In this presentation we will present a method of identifying sources of bacteria (*e.g., E. coli*) in urbanized watersheds that has proven to be very successful in producing cost effective best management practices to meet regulatory requirements, such as waste load allocations for Total Maximum Daily Loads. Examples of the process will be presented as well as initial results from the Lambert Creek Watershed in Vadnais Heights, MN, where the process is currently being implemented.

Presenters: Steve Gruber, Project Manager, Burns & McDonnell Engineering, Inc.
Brian Corcoran, Water Resources Manager, Vadnais Lake Area WMO, (VLAWMO)

Seminar B: SAM Makes Custom Implementation Strategies Easier (for TMDLs, WRAPs, and 1W1Ps)

Resource managers are often challenged on how to prioritize and place the best combination of best management practices (BMPs) that result in the most cost-effective, achievable, and practical management strategies. The Scenario Application Manager (SAM) decision-support tool was developed to facilitate BMP planning on a sub-watershed to watershed scale to achieve goals identified in watershed plans, Watershed Restoration and Protection Strategies (WRAPs), One Watershed One Plan initiatives (1W1P), and Total Maximum Daily Load Studies (TMDLs). SAM's user-friendly interface allows resource managers to select BMPs and develop implementation plans that optimize measurable pollutant reductions and include associated, customizable costs. BMP scenarios can be evaluated for effectiveness and the results used to support funding requests. SAM consists of an ArcGIS map interface for site selection, Hydrologic Simulation Program – Fortran (HSPF) model application to simulate the transport and fate of pollutants, and a BMP database to estimate pollutant removals and costs.

Presenters: Emily Javens, Project Manager, RESPEC,
Chuck Regan, Project Manager, MPCA,
Cindy Potz, Administrator, Yellow Medicine Watershed District

Friday, December 5, 2014 continued

Seminar C: Developing Flood Damage Reduction Projects

Development of flood damage reduction (FDR) projects is complex and challenging. With social, political, environmental, and economic considerations all influencing the outcome, implementation of FDR projects requires a systematic and deliberate approach to address each factor. Mr. Dalager will present several recent and successful examples of FDR projects, from concept through planning to design through permitting resulting in construction and operation. The presentation will highlight the challenges and outline the processes and approach to delivering these important projects for watershed districts.

Presenter: Nate Dalager, P.E., HDR Engineering, Inc.

Seminar D – Staff Development:

Clean Water Plans and Grant Calculator to Prioritize Grant Funding and Outreach To Residents

Implementing grant programs that efficiently use staff resources, provide exceptional public education, and encourage the installation of superior projects is a difficult task. Many programs are based on project costs with little thought given to water quality benefit. Capitol Region Watershed District (CRWD) has developed a new grant program approach that provides services based on the likelihood of installation, and grant awards based on project benefits. This approach increases the likelihood of high performing projects being installed, and greatly reduces resources spent on designs that don't lead to project construction. To identify the best projects on each site, CRWD uses a preliminary design document called a "Clean Water Plan" with a robust package of educational materials. An objective "Grant Calculator" determines grant awards. In its first year, the new CRWD grant program has shown promising results and is a good example of an alternative approach to more traditional grant programs.

Presenters: Nate Zwonitzer, Urban BMP Specialist, Gustavo Castro, Water Resource Specialist, Capitol Region WD

4:00 – 4:15 Break – Downstairs Lobby

4:15- 5:00 p.m. - Concurrent General Session IV

Session A: Reuse – At the Intersection of Water Quality and Sustainable Water Supply

Reuse of stormwater is not new, but we have become accustomed to simply "turning on the tap" and receiving high quality water. It seems so handy for everything we even use it to irrigate our thirsty lawns. The inexpensive water does not build in valuation of its sustainability, which is raising concerns. Stormwater reuse as a tool for sustainable water management that has tremendous potential to be a game-changer for watershed and municipal managers. It is a win-win by putting two different water sectors together and re-imaging two challenges: 1) "disposing of" stormwater and 2) transporting, treating, and storing drinkable-quality water. Reuse is a shift in the water paradigm to be more sustainable. EOR identified a key barrier in reuse adoption and through a joint Watershed research grant, led the development of a reuse design tool and model. The tool allows designers to quantify and size reuse systems and their benefits.

Presenters: Brett H. Emmons, PE, CEO, Senior Water Resources Engineer, Emmons & Olivier Resources,
Meghan Jacobson, PhD, Water Quality Specialist, Emmons & Olivier Resources,
Greg Graske, PE, Senior Water Resources Engineer, Emmons & Olivier Resources

Friday, December 5, 2014 continued

Seminar B: Modeling the Effectiveness of Agricultural BMPs: Quantity/Quality Impact of Field Practices
Built on the renowned SWMM platform, the Rural Storm Water Management Model (RSWMM) was developed to accurately simulate hydrology, hydraulics, and water quality in agricultural watersheds, and to assess the effectiveness of a suite of agricultural BMPs. The RSWMM is a unique decision-making tool that evaluates the local and downstream quantity/quality impacts resulting from field-scale BMPs including conservation tillage, cover crops, and contour farming, among others. The model also simulates the in-stream treatment of nitrogen and phosphorus, drainage impacts and assesses the efficacy of treatment devices such as denitrifying bioreactors. Field-scale simulation results showed good agreement with literature-reported sediment and nutrient load reduction rates. Five watersheds in Ontario, Canada totaling 500 km² were modeled, and results will be presented for a variety of local and regional agricultural BMP implementation scenarios. Overall, the RSWMM is a robust and flexible tool for use in the assessment and prioritization of agricultural BMPs.

Presenters: Cecilio Olivier MS, PE, Senior Water Resources Engineer,
Emmons and Olivier Resources Inc.,
Mike Talbot MS, Agricultural Engineer, Emmons and Olivier Resources Inc.

Session C:

Part I: OneWatershed/OnePlan – Moving Forward with Watershed Based Local Planning

In the transition to the OneWatershed/One Plan for local water management BWSR has adopted methods to allow comprehensive plans, local water management plans, or watershed management plans to serve as substitutes for one another; or to be replaced with one comprehensive watershed management plan. BWSR's vision for One Watershed/One Plan is to align local water planning on major watershed boundaries with state strategies towards prioritized, targeted and measurable implementation plans – the next logical step in the evolution of water planning in Minnesota. Using this approach BWSR selected 5 watershed areas for piloting the program in June 2014. Operating Procedures and Plan Content requirements established by BWSR are applicable to these pilot areas only. BWSR anticipates transitioning to a statewide program available to all suggested planning boundaries in December 2015.

Presenter: Doug Thomas, Assistant Director, BWSR

Part II: Update of the Minnesota Public Drainage Manual & Drainage Work Group Activities

The Legislature provided BWSR funding to update the MPDM. The team of Houston Engineering, Inc. and Rinke Noonan, Attorneys at Law have been contracted to lead the project. Overview and status. In addition, the DWG has several high priority current topics of discussion, some of which are interrelated.

Presenter: Al Kean, BWSR

Session D: Staff Development:

Ramsey Washington Metro WD Hydrologic/Hydraulic Model Update to Incorporate Atlas 14 Precipitation Depths

Last year the National Oceanic and Atmospheric Administration released Atlas 14 Volume 8, which updates precipitation frequency estimates for Midwestern states including Minnesota. In response to the release of Atlas 14, the RWMWD has updated the hydrologic and hydraulic models within the District to incorporate the change in precipitation. Accounting for the Atlas 14 precipitation depths has changed the 100-year water surface elevations for many of the lakes within the District. The updated models allow the District to more accurately identify areas that are at risk of flooding, some of which were not previously identified. We will discuss the impact Atlas 14 has had on 100-year flood elevations within the District, and some general considerations for future redevelopment within the District.

Presenter: Brandon Barnes – Barr Engineering

Friday Evening

6:00 p.m. Social Hour (Cash Bar)

7:00 p.m. **Association Banquet**

MAWD Awards

Entertainment

"Our Mighty Mississippi"

Steven Marking (stevenmarking.com)



Steven Marking

A magical journey of song,
storytelling and visual
imagery celebrating
America's greatest river.

Saturday, December 6, 2014

7:00- 9:00 a.m. Breakfast Buffet

9:00 – 10:00 a.m. Plenary Session: Minnesota Water Quality Certification Program Update

Panel Members: Matt Wohlman, Assistant Commissioner, MDA,
Bruce Albright, Administrator, Buffalo Red River WD,

Certified Producer - TBD

The Minnesota Agricultural Water Quality Certification Program is a voluntary program designed to accelerate adoption of on-farm practices that protect Minnesota's lakes and rivers. Producers who implement and maintain approved farm management practices will be certified and in turn obtain regulatory certainty for a period of 10 years. Hear about management practices factored into the certification process and the pilot projects underway to refine details and gather feedback from local producers and conservation professionals.

10:15 a.m. **MAWD Business Meeting (Continued)**

Presiding – President Jerome Deal

* MAWD Administrative Report – Ray Bohn, MAWD Coordinator

* Region Reports

* Watershed District Administrators Report – Kevin Bigalke

* Final Report on Attendance – Ray Bohn

* Audit Committee Report – Craig Leiser, Treasurer

* 2015 Budget Adoption – Craig Leiser, Treasurer

* 2015 Annual Meeting

* Introduction of new MAWD Board Members

11:30 a.m. Meeting Adjourned

BOARD OF DIRECTORS MEET FOR REORGANIZATION AT 12:00 NOON

or Fifteen Minutes after adjournment - BOARD ROOM II

2014 MAWD PRE-CONFERENCE SESSIONS

Arrowwood Conference Center

Thursday, December 4, 2014

For Managers, Administrators, Staff and Key Partners

Name/Title: _____

Organization: _____

Address: _____

City: _____ Zip Code: _____

Phone: _____ Email: _____

Pre-Conference Seminar Registration - Please return this form before November 21.

Please select one seminar

Includes workshop, registration packet, coffee breaks and lunch.

- | | | |
|--------------------------|--|-------|
| <input type="checkbox"/> | Minnesota Drainage Workshop | \$85 |
| <input type="checkbox"/> | Basic Water Management Workshop | \$85 |
| <input type="checkbox"/> | Effective Communications for Watershed Districts | \$100 |
| <input type="checkbox"/> | Watershed Specialist Training Program | \$100 |

Total Due \$ _____

Credit card registration at mnwatershed.org

Advanced Registration is recommended - on-site registration subject to availability.

Lodging: Rooms reserved (one night \$90.20 with tax) for Wednesday, December 3, 2014 at Arrowwood Phone: 320-762-1124 for reservations. Please reference the MAWD Pre-Conference Sessions.

Cancellations: Refund only if cancellation received by November 28, 2014. Substitutes may be sent.

Registration questions please call 651-452-8506 or email: pegbohn@gmail.com.

2014 MAWD Pre-Conference Session

Arrowwood Conference Center

Thursday, December 4, 2014

Watershed Specialist Training Program

9:00 – 12:00 a.m. - Effective Project and Program Implementation

This workshop delves deeper into one of the seven modules of the Watershed Specialist Training program (z.umn.edu/wst). (Previous participation in the WST is not required.)

Build your project and program implementation proficiency, and become more aware of skills needed for future project and program managers.

Workshop topics include:

- practical differences between projects and programs and the different skills needed in each case,
- considerations for managing and implementing projects and programs,
- mitigating risks,
- working with contractors,
- estimating time and budgets.

Presenters: Ann Lewandowski (Univ of Minnesota Water Resources Center, Coordinator of the Watershed Specialist Training program),

Doug Thomas (BWSR Acting Assistant Director),
additional experienced District Administrators.

1:00 pm – 4:00 pm - Weighing Implementation Activities

This workshop delves deeper into one of the seven modules of the Watershed Specialist Training program (z.umn.edu/wst). (Previous participation in the WST is not required.)

Develop your ability to weigh alternatives for addressing water resource problems. Should you focus on a large capital improvement project, small landowner practices, a broad education campaign, policy changes, or other strategies for achieving water resource goals?

In this workshop, examine the eight considerations for weighing implementation alternatives, learn tools for comparing alternatives such as the calculator developed by the Capitol Region Watershed District to estimate long term costs and benefits of stormwater management alternatives, and practice applying the principles learned.

Presenters: Ann Lewandowski (Univ of Minnesota Water Resources Center, Coordinator of the Watershed Specialist Training program),

Nate Zwonitzer, Capitol Region Watershed District

Register on page 13

2014 MAWD Pre-Conference Session

Arrowwood Conference Center

Thursday, December 4, 2014

Project WET and Project Learning Tree Workshop



Thursday, December 4, 2014
9 AM – 4 PM



Get certified in both Project WET (Water Education for Teachers) and Project Learning Tree (PLT) in the same day! Participants will be introduced to several of the engaging, fun, indoor and outdoor learning activities that WET and PLT have to offer. These activities are appropriate for use with students and families and offer a great way to add hands-on activities to topics such as: water conservation, water quality, defining a watershed, land conservation, invasive species and much more! This is also an opportunity for those certified in Project WET before 2011 to attend the training and receive the new curriculum guide, which is in full color and has many new and updated activities. More information about the Projects can be found at: <http://www.dnr.state.mn.us/education/index.html>.

WET & PLT activities are:

- Interactive and hands-on
- Ideal for reaching different learning styles
- Flexible to be used in- or outdoors
- Easily incorporated into existing curricula
- Suited for a variety of time lengths

Participants get:

- Project WET K-12 Curriculum & Activity Guide 2.0 (contains 64 activities)
- Project Learning Tree K-8 Environmental Education Learning Guide (contains 96 activities)
- Six CEUs (continuing education units)
- Posters and other supplemental resources
- Breakfast and lunch

Workshop Presenters:

Claire Bleser, District Administrator, Riley Purgatory Bluff Creek Watershed District

Erica Sniegowski, Education & Outreach Coordinator, Nine Mile Creek Watershed District

Register on page 13

2014 MAWD Pre-Conference Session

Arrowwood Conference Center

Thursday, December 4, 2014

Basic Watershed Management

Watershed Districts are an interesting blend of missions and authorities. Understanding how they fit into the big picture is critical to new Managers. Your organization has broad powers to tackle issues the citizenry has determined other governments either cannot, or will not, address.

It's a big deal...and as a manager, it is now your responsibility.

9:00 Welcome and Introductions

Watershed Districts, BWSR, and the World

Your WD is just one organization in a world full of state, federal, non-profit, citizen, and municipal interests with their own mandate to work for the public good.

Watershed Districts' Legal Powers and Purposes

Managers have their own compact chapter of law - MN Statutes Ch. 103D. This overview of the structure and content will demystify the nuances it contains. Whether or not your WD regulates, you'll hear some specifics about your powers to compel individuals or other government to do things.

Your Role as Leader

Your county appointed you to the Board and probably expects you to make sure the organization does more than just exist. There are a few skills that will help you make your organization excel.

Government Basics – the Open Meeting Law, Data Practices Act

The public and private sectors operate differently. (Hold secret strategy meetings if you want to learn the hard way...) Ethics, open meeting laws, and other board responsibilities will be explored.

The Value of Your Watershed Management Plan

Every organization on the planet from the Cub Scouts to the US Army has some sort of strategic plan to guide them. WD plans set priorities, outline tactics, and explain where the tax money will come from.

What Haven't We Covered?

We have covered many required topic areas. There are still others that contribute to the art of "boardsmanship". Any remaining time before we adjourn will be used to address questions you still have and to share a few stories from the trenches...

Register on page 13

2014 MAWD Pre-Conference Session

Minnesota Drainage

Arrowwood Conference Center - Thursday, December 4

- 9:00 a.m. **Current Drainage Law Practice Issues and Project Examples**
Presenter: Kurt Deter, Rinke Noonan, Attorneys at Law
Recent drainage law updates, federal and state agency priorities, and the agricultural economy are affecting drainage projects and trends. – An overview of legal considerations and project examples.
- 10:00 a.m. **2014 Update of Section 103E.015 Considerations Before Drainage Work is Done**
Presenter: Al Kean, BWSR
What drainage authorities, drainage engineers and local water planning authorities need to know about updates in 2014 that were based on Drainage Work Group consensus recommendations.
- 10:35 a.m. **Sec. 103E.015 – Integrating External Funding for Multipurpose Water Management**
Panel: Bruce Albright, BRRWD; Don Bajumpaa, Wilkin SWCD; Craig Austinson, Blue Earth Co.
Section 103E.015 now requires drainage authorities to investigate external sources of funding for multipurpose water management options with local water planning authorities. Panelist experience.
- 11:35 a.m. **Update of the Minnesota Public Drainage Manual**
Presenters: Al Kean, BWSR; Larry Kramka, Houston Engineering, Inc.; John Kolb, Rinke Noonan
The Legislature provided BWSR funding to update the MPDM. The team of Houston Engineering, Inc. and Rinke Noonan, Attorneys at Law have been contracted to lead the project. Overview and status.
- 1:00 p.m. **EPA Proposed Rules: Definition of Waters of the U.S.**
Presenter: Kale Van Bruggen, Rinke Noonan, Attorneys at Law
An overview and discussion of the issues, proposed rule options and comments for a number of drainage authorities, association(s) and city(ies).
- 1:45 p.m. **Section 319 Research and Demonstration Project – Side Inlets for Water Quality**
Presenter: Tim Gillette, BWSR
This project was completed in 2014. It included recommendations about the best type(s) of side inlet structures and the value of integrating short-term detention into the design.
- 2:45 p.m. **Red River BTSAC Briefing Paper #3: Water Mgmt. Options for Surface Drainage**
Presenter: Chuck Fritz, International Water Institute
The Basin Technical and Scientific Advisory Committee (BTSAC) prepared this paper for the ND Red River Joint Water Resource District and the MN Red River Watershed Management Board.
- 3:15 p.m. **Effectiveness of a Treatment Wetland at Removing N and P from Tile Water**
Presenters: Brad Gordon, UMN; Josh Gamble, UMN
Results to date from a Clean Water Fund research and demonstration project in Martin County, MN.
- 3:45 p.m. **Current Drainage Work Group Discussion Topics**
Presenter: Al Kean, BWSR
The DWG has several high priority current topics of discussion, some of which are interrelated.
- 4:00 p.m. **Conclusion**

Register on page 13

Minnesota Association of Watershed Districts
2014 Annual Meeting & Trade Show

Registration & Meal Form

DUE: NOVEMBER 21, 2014 Please use one form per party:

Copy as needed. Names of all attendees must be submitted.

- **Skip the mailman and register on-line at www.mnwatershed.org**

December 4-6, 2014

Arrowwood Conference Center

2100 Arrowwood Lane, Alexandria, MN 56308

Name: _____

Title (manager, commissioner, etc.): _____

Organization: _____

Address: _____

City: _____ Zip _____

Phone: (Day) _____ (Evening) _____ Email _____

Name of spouse/guest (no registration fee) _____

2014

■■■■■■■■■

**All meals are
included in
registration
fee!**

**Spouse meal
package for
purchase**

■ **ADA Meeting (Administrators Only) = \$ 25.00** \$ _____

■ **Registration \$185.00 per person - this includes all meals for the registrant**

■ **Spouse meal package - all conference meals = \$ 85.00** \$ _____

■ **Banquet only = \$ 35.00** \$ _____

■ (Late registrations postmarked after Nov. 21, 2014 = \$200.00 per person)

■ No refunds after November 28, 2014 - \$25 refund processing fee

Registration and spouse meal total \$ _____

- **Register on-line at www.mnwatershed.org**

Please make check payable to Minnesota Association of Watershed Districts
and return with this form by November 21 to:

Minnesota Association of Watershed Districts

540 Diffley Road

St. Paul, MN 55123

Questions: phone: 651-452-8506 or email pegbohn@gmail.com

Hotel Reservation Form

December 4-6, 2014 - Arrowwood Conference Center

Please note: Please register for the MAWD Annual Meeting on the Registration Form.
This form does not register you for the MAWD Annual Meeting.

Name: _____

Address: _____

City: _____ Zip _____

Phone: (Day) _____ (Evening) _____ Email _____

Please send completed form to Arrowwood by November 21, 2014. (Phone reservations not accepted - fax or mail only.)

Send to: 2100 Arrowwood Lane, Alexandria, MN 56308 Fax: 320-762-0133 Phone: 866-386-5263

Lodging - deadline November 21, 2014 • One form per party please - copy as needed.

- Please select **one room plan per party**.
- The room rates are for 1-4 persons
- All guestrooms are now non-smoking
- Big Splash Indoor Water Park discount tickets at \$10 per person per day are available for MAWD.

☐

Lodging I

Thursday and Friday - December 4-5

\$180.40

☐

Lodging II

One night only

\$90.20

☐

Townhouse units:

\$90.20 per bedroom/night plus tax

Select Unit Type desired: ☐ 3 bedroom/3bath ☐ 4 bedroom/3bath
(No elevators. Specify a first floor unit)

Guaranteed Payment: ____ Visa/MasterCard ____ American Express ____ Other

Card Number: _____ Exp. Date: _____

Signature: _____

All rooms must be guaranteed. Individual reservations cancelled within 72 hours of the scheduled arrival date will be charged one night lodging on the date of cancellation. Check-in time is 4:00 p.m. Checkout time is 12:00 noon.



Land and Water Shall be Preserved

540 Diffley Road
St. Paul, MN 55123-1601

Minnesota Association of Watershed Districts

2014 Annual Meeting & Trade Show

December 4-6, 2014

2014 MAWD Pre-Conference Sessions - December 4, 2014

- **Minnesota Drainage Workshop**
- **Basic Water Management Workshop**
- **Watershed Specialist Training Program**
- **Project WET and Project Learning Tree Workshop**