

GCSAA EDUs TBA  
Pesticide recertification credits TBA

**Monday, October 26, 2015**

**4:30 p.m. Board of Directors Meeting**

**Tuesday, October 27, 2015**

*Education presented in the Stillwater / Bitterroot Room*

**7:00 a.m.** Registration desk is open. Continental breakfast is available co-sponsored by **STOTZ EQUIPMENT** and **WILBUR ELLIS / THE ANDERSONS** Any changes for the golf tournament accepted till 12:00 p.m. today

**8:00 – 9:15 a.m. “Soil Surfactants and Irrigation Management”** Mike Richardson, Ph.D., Professor, Department of Horticulture, University of Arkansas

**8:00 – 1:30 p.m.** Trade Show Exhibitor move in - Trade Center (Must be ready to show by 1:30 p.m.)

**9:15 – 10:15 a.m. “WOTUS”**

**10:15 – 10:30 a.m. Break**

**10:30 – 11:30 a.m. “Snow Mold Fungicide Persistence”** Paul Koch, Ph.D., Assistant Professor, Department of Plant Pathology and Assistant Professor, Molecular and Environmental Toxicology Center, University of Wisconsin – Madison

**11:30 – 12:30 p.m. Lunch**

**12:30 – 1:45 p.m. “Using Your Phone to Help Manage Your Facility and a Few More Gizmos/Gadgets”** Mike Richardson, Ph.D., Professor, Department of Horticulture, University of Arkansas

**1:45 – 2:00 p.m. Break** co-sponsored by **2M COMPANY** (additional sponsors available)

**2:00 – 3:00 p.m. “Reduced Risk Disease Control”** Paul Koch, Ph.D., Assistant Professor, Department of Plant Pathology and Assistant Professor, Molecular and Environmental Toxicology Center, University of Wisconsin – Madison

**3:00 – 7:00 p.m. Fall TRADE Show** - Take advantage of the knowledge present! The association’s leading supporters - *our suppliers and distributors* - of the association as they showcase their products and services! Enjoy food and beverages - registrants (& families) only from 3:00-6:00 p.m. / Open to all 6:00-7:00 p.m. \*Food & beverage sponsorships available

**Wednesday, October 28, 2015**

**6:00 - 10:00 a.m.** Trade Show Exhibitor move out - Trade Center

**7:20 a.m.** Continental breakfast is available in the meeting room co-sponsored by *Sponsorships available*

**8:00 – 9:00 a.m. “Winter Injury, with Focus on the Impact of Covers on Snow Mold Development”** Paul Koch, Ph.D., Assistant Professor, Department of Plant Pathology and Assistant Professor, Molecular and Environmental Toxicology Center, University of Wisconsin – Madison

**9:00 – 9:15 a.m. Break**

**9:15 – 10:00 a.m. Business Meeting and Election of Officers** – President, Sean Sullivan, CGCS, presiding. Nominating chairman, Dan Tolson, CGCS, offers the following slate for your consideration: *Officers:* President: **Dan Rootes**, Ponderosa Butte Golf

Course, Colstrip, Mont.; Vice President: **Jason Busch**, The Powder Horn, Sheridan, Wyo.; and Secretary/ Treasurer: **Jason Lamb**, Sidney Country Club, Sidney, Mont. *Nominated for the Board of Directors* (three positions are available - (1) one-year, and (2) three year): **Wade Altschwager** (incumbent), Anaconda Hills Golf Course, Great Falls, Mont.; **Andy Erskine**, Jackson Hole Golf & Tennis Club, Jackson, Wyo.; **Rick Hathaway**, Rock Creek Cattle Company, Deer Lodge, Mont.; **Mike Kitchen**, CGCS, Teton Pines Resort & Country Club, Jackson, Wyo.

**10:00 – 11:00 a.m.**

**“Using Soil Moisture Meters and Sensors to Improve Irrigation Efficiency”** Mike Richardson, Ph.D., Professor, Department of Horticulture, University of Arkansas

**11:00 – 11:45 a.m. Lunch**

**12:45 p.m. Fall Golf Outing, Laurel Golf Club**, Laurel, Mont., Bo Popp, Host Superintendent

**Thursday, October 29, 2015**

**7:15 a.m.** Registration desk is open. *Sponsorships available* Continental breakfast and lunch are included. (Lunch will be served at 11:30 a.m) *Separate registration is required*

**8:00 – 3:00 p.m. “Aerification and Water Management of Putting Greens by the Numbers”** Erik Ervin, PhD, Professor of Turfgrass Culture and Physiology, Crop and Soil Environmental Sciences Department Virginia Tech To optimize the health and playing performance of your putting greens, proper organic matter dilution in surface root zones is crucial. Reviewing research data and USGA Green

Section recommendations for cool season putting greens, emphasis will be placed on cultivation and topdressing practices, specifically the “numbers”: surface area removal and sand volume calculations. Attendees will:

- Understand how to monitor percent organic matter status and determine, by mathematical estimation, a timeframe for achieving a percent organic matter goal
- Learn how to use an Excel spreadsheet to do organic matter dilution math
- Examine how to measure moisture gain and loss in putting greens and how this effects irrigation scheduling

### ***Our Speakers:***

**Erik Ervin, Ph.D.,** is a Professor of Turfgrass Culture and Physiology in the Crop and Soil Environmental Sciences Department at Virginia Tech. Ervin specializes in the physiology and ecology of turfgrass responses to environmental stress and the use of synthetic and natural (biostimulants) plant growth regulators for improved stress response. He has presented over 250 talks to turf professionals nationally and internationally since 1998. Ervin teaches four courses each year including: Turfgrass Management, Golf and Sports Turf Management, Turfgrass Science seminar, and a capstone class on career preparation skills. He is the author of 67 scientific journal articles and hundreds of extension/industry publications. His degrees are from Iowa State University (Horticulture, B.S.) and Colorado State University (Horticulture, M.S. and Ph.D.). His professional positions include Assistant Professor and State Turfgrass Extension Specialist at the University of Missouri-Columbia from 1998 to 2000; Assistant Professor (2001-2005), Associate Professor (2006-2011), Professor (2011 to present), and Assistant Dean of Academic Programs in the College of Agriculture and Life Sciences (2013 to present) at Virginia Tech. Ervin worked on golf courses in Iowa, Flo., and Colo. for 10 summer seasons. He has presented GCSAA seminars for the past five years.

**Paul Koch, Ph.D.,** is an Assistant Professor in the Department of Plant Pathology as well as the Molecular and Environmental Toxicology Center at the University of Wisconsin – Madison, joining the faculty in January of 2014. Koch’s research has focused primarily on (1) the impact of environmental conditions on fungicide breakdown in the environment and (2) snow mold diseases on golf course turfgrass. Koch also oversees the University of Wisconsin Turfgrass Diagnostic Lab and the University of Wisconsin Turfgrass Fungicide Testing Program. The UW Turfgrass Fungicide Testing Program is one of the largest of its kind in the country and tests approximately 200 fungicide treatments annually for efficacy against both winter and summer turfgrass diseases. Koch received his Ph.D. from University of Wisconsin – Madison with a major in Plant Pathology and a minor in Molecular and Environmental Toxicology.

**Mike Richardson, Ph.D.,** is a Professor in the Department of Horticulture at the University of Arkansas, where his research has focused on cultural practices that impact cool- and warm-season turfgrass production in the transition zone. In addition, he has been actively involved with research to screen and develop new turfgrass for a wide range of turfgrass environments. Richardson has received numerous awards for his research, including being named a Fellow in the American Society of Agronomy and the Crop Science Society of America. He has served as the Editor of Applied Turfgrass Science, a peer-reviewed journal in the Plant Management Network and an Associate Editor of Crop Science. An active teacher and advisor in the Department of Horticulture, Richardson is the primary instructor for Introduction to Turfgrass Management, Golf and Sports Turf Management, and Golf Course Operations. Richardson has authored over 80 scientific articles on turfgrass management, published 10 book chapters, and delivered over 200 invited lectures on various aspects of turfgrass management around the world.

## Peaks & Prairies GCSA

# Fall Meeting & Trade Show

October 27-29, 2015

Holiday Inn Grand Montana  
Billings, Mont.

Golf:  
Laurel Golf Club  
Laurel, Mont.

Discounted rates available  
till October 14  
Hotel reservations due October 8

*Peaks & Prairies GCSA is  
dedicated to furthering the education  
of our members for the betterment  
of golf and its environment.*

