



**Nutrients on the hit-list, Phosphorus and Nitrogen:
What you need to know about the fate in our environment**

with

Dr. Brian Horgan

November 25, 2008

9:00am to 4:00pm

Canad Inns Windsor Park

1034 Elizabeth Road

Winnipeg, Manitoba

Overview:

Individual states in the U.S. and provinces in Canada are regulating the use of pesticides and fertilizers applied to turfgrass. The primary macronutrients phosphorus and nitrogen are often the target since they are the limiting factor in algae growth in lakes and rivers. Absent from these regulations is a whole host of new research that will be discussed in detail during this seminar.

This session will discuss the fate of Phosphorus and Nitrogen applied to turfgrass, we will discuss ways to mitigate off-site movement of nutrients. At the conclusion of this seminar:

1. Participants will understand the fate of Nitrogen in our environment with special attention to new data on N leaching and denitrification
2. Participants will be introduced to a new soil test that is being evaluated to develop a N credit program for turfgrass N management that will reduce nitrate leaching potential.
3. Participants will understand the chemistry and fate of Phosphorus in our environment paying close attention to recently passed laws restricting the use of P fertilizers applied to turf and the impacts this will have on turf management.
4. Participants will be introduced to strategies to mitigate N and P movement off-site and will be able to develop better fertility programs.

Dr. Brian Horgan is an Associate Professor and Extension Turfgrass Specialist at the University of Minnesota. His interests revolve around nutrient fate and turfgrass water conservation. Specifically, he is interested in improving our nitrogen and phosphorus fertilizer recommendations, gaining a better understanding of the fate of phosphorus in our environment, and utilizing organic nitrogen fractions in the soil to create an N-credit program. He has spent the last 5 years researching turfgrass water conservation strategies utilizing new technologies, ET predictors and proper plant selection. Dr. Horgan has given turf related presentations in China, Europe, the United Kingdom and across the United States.

Approval Information: This seminar is eligible for 5 CEC for both the CGSA Master Superintendent and Accredited Golf Superintendents programs. An application has been submitted to the GCSAA for point approval.

**REGISTRATION FOR THIS EVENT IS BEING HANDLED IN CONJUNCTION WITH THE
MGSA GOLF TURF MANAGEMENT CONFERENCE.**

PLEASE CONTACT THE MGSA AT (204) 326-3460 OR MGSA@MTS.NET FOR FURTHER INFORMATION.