

Minnesota Turf & Grounds Foundation Conference & Trade Show Schedule

Wednesday, December 9

7:00 – 8:45	CONFERENCE & SHOW REGISTRATION
8:45 – 9:15	President's Welcome / MTGF Update / Executive Director 101-AJ
9:20 – 11:00	Keynote Speaker TBA
11:00 – 4:30	TRADE SHOW OPEN
11:30 – 1:00	Lunch Available in Trade Show
2:30 – 3:20	Concurrent Sessions
3:20 – 3:30	Educational Pause
3:30 – 4:20	Concurrent Sessions

SESSION 1

RECREATIONAL TURF
Topics for Mark Altman
Altman & Altman Construction
Room 208-AD
2:30 – 3:20

Understanding Basic Soil Analysis for Golf and Sports Turf, Renovation vs. Construction

This session will cover the basics of understanding a basic soil analysis, including major and minor nutrients, and their relevance to our own soil types. An introduction of the decision making process as to whether renovation or reconstruction is needed on any particular site will also be covered.

3:30 – 4:20

Sports Field Quality and Safety, Common Pitfalls When Building a New Field

This session will cover the basics of the sports field construction process as well as highlighting those considerations that contribute to safe, high-quality playing fields.

SESSION 2

GRASSES, BLUE AND BENT
Topics for Dr. David Huff
Penn State University
Room 103-AF
2:30 – 3:20

Kentucky Bluegrass for Home and Golf. Which is the Right Cultivar for You?

There is an enormous amount of variation among Kentucky bluegrass cultivars. Dr. Huff will explore and explain this variation and how it impacts your cultivar choices.

3:30 – 4:20

Cultivar Development of Greens Type *Poa Annua*

Dr. Huff will present an inside look at Penn State's annual bluegrass breeding program specifically focused for application on golf course greens.

SESSION 3

TREE MANAGEMENT FROM SEEDLING TO CHIP PILE
Topics for Dr. Bob Miller
University of Wisconsin – Stevens Point
Room 211-AD
2:30 – 3:20

Planting to Early Maturity

Developing a proper root system, correct planting and follow up training and maintenance to grow a quality landscape tree.

3:30 – 4:20

Mid Life to Old Age

Shifting management activities to ensure long term health, and care for old trees to protect your investment.

SESSION 5

HORTICULTURE
Topic for Jim Hagstrom, ASLA
Savanna Designs, Inc.
Room 212-AB
2:30 – 3:20

Ecologically-Based Landscape Design

This session will discuss the principals of sustainability and environmental ethics as they relate to landscape design. The question "What is natural?" will be addressed. Several completed projects that demonstrate varying levels of wildness will be reviewed and discussed.

Topic for Harvey Buchite
Rice Creek Gardens
Room 212-AB
3:30 – 4:20

Herbaceous Plants for Mass Plantings: Golf Courses, Parks, Cemeteries and Schools

Knowing the characteristics of a perennial's growth habit and their environmental tolerances are key to successful mass plantings. A variety of plant combinations will be presented along with their application to public sites.

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Thursday, December 10

6:30 – 7:00	MDA Registration
7:00 – 8:00	MDA Turf and Ornamental Recertification, Rick Hansen, Coordinator 103-AF
7:00 – 8:00	CONFERENCE & TRADE SHOW REGISTRATION
8:00 – 4:30	TRADE SHOW OPEN
8:10 – 9:10	Multiple Chemical Sensitivity, Fred Langley, RISE 103-AF
9:00 – 9:10	Educational Pause
9:10 – 10:00	Concurrent Sessions
10:00 – 10:10	Educational Pause
10:10 – 11:00	Concurrent Sessions
12:00 – 2:00	Lunch Available in Trade Show
1:00 – 4:00	Aquatics Recertification
2:00 – 3:30	“Bits”

SESSION 1

LIMITING STRESS AND PESTICIDE USE: TREES

*Topic for Dr. Nina Bassuk
Cornell University*

Room 211-AD

9:10 – 10:00

Selecting Trees for Stress Tolerance

The question “How do you start making appropriate tree selections for stress tolerance?” will be addressed. Topics include major issues related to successful tree selection and the circumstances where selection isn't enough to insure success in the landscape.

Topic for Gary Johnson

University of Minnesota Forest Resource

Room 211-AD

10:10 – 11:00

Use of Vertical Mulches to Improve Tree Health After Construction Damage to Trees

Vertical mulching is a technique that has been used to maintain plant health in areas where surface mulching treatments are not practical or possible. The question “How effective is vertical mulching in helping trees recover from construction damage?” will be addressed.

*Topic for Dr. Nina Bassuk
Cornell University*

Room 211-AD

11:10 – 12:00

Soil Modification and Transplanting

Once one understands the important environmental constraints to healthy tree growth, you can use the two weapons you have: appropriate selection and soil modification. The questions “When is soil modification necessary?” and “What kinds of techniques can you use to deal with compaction and poor drainage?” will be addressed.

10:10 – 11:00

Resistance to Turfgrass Disease

Disease resistance is a proven tool for disease management and has been useful in reducing the impact of certain turf diseases. The two main types of genetic resistance, horizontal and vertical, will be discussed as well as their use in turfgrasses. Induced disease resistance will also be discussed.

*Topic for Dr. Nick Christians
Iowa State University*

Room 103-AF

11:10 – 12:00

Herbicide Use in Turf

This presentation will include a basic discussion of preemergence and postemergence herbicides in turf. Current research and a discussion of the effectiveness of new materials will also be presented.

SESSION 3

SOIL AND WATER

Topic for John Hines

Minnesota Department of Agriculture

Room 213-AB

9:10 – 10:00

Pesticide Impacts in Urban and Rural Watersheds

Pesticide use is common in both urban and rural watersheds but the types of pesticides used vary. This presentation will cover the similarities and dissimilarities of pesticides found in surface waters of urban and rural watersheds.

*Topic for John Barten
Natural Resources*

Room 213-AB

10:10 – 11:00

How Turf Management Practices Affect Water Quality

This session will discuss the results of studies on the quality of runoff from golf courses and urban lawns. Data showing movement of phosphorus fertilizer off of turf areas will be presented. Turf management practices that reduce runoff and improve water quality will also be covered.

*Topic for Deb Pilger
Minneapolis Park & Recreation Board*

Room 213-AB

The Lake Harriet Watershed Awareness Project

The Lake Harriet Watershed Awareness project is a research project with two main purposes: 1) to inform urban homeowners about living in a watershed and, 2) to help them learn how their habits affect urban water quality. The project goal is to improve water quality by reducing pesticide and nutrient inputs to urban waters.

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SESSION 2

TURFGRASS

*Topics for Dr. Nick Christians
Iowa State University*

Room 103-AF

9:10 – 10:00

Pesticide Movement in the Soil Profile

The movement of nitrogen, phosphorus, insecticides, herbicides, and fungicides were monitored in soil columns collected from field areas. Methods of reducing environmental risk for these materials on the golf course will be discussed.

*Topic for Dr. Julien Mercier
University of Minnesota Plant Pathology*

Room 103-AF

SESSION 4

HEALTH AND SAFETY

Topic for Dean Herzfeld
University of Minnesota Plant Pathology
Room 212-AB

9:10 – 10:00

IPM in Public Places: Pesticide Labels and Safety

There is a growing interest by the public and people who manage schools, parks, cemeteries and other public and semi-public turf and landscapes in pest management and pesticide use in public places. This session will provide a look at what is happening in Minnesota and ideas on how to connect IPM and plant health care, safety issues, the pesticide label, and the management of pesticides to turf and landscape pest management in public places.

Topic for Dr. Sherri Gahring
University of Minnesota Design Housing
Room 212-AB

10:10 – 11:00

Sun and Skin Cancer

Topic for Carol Houlston
Minnesota Pison Control Center
212-AB

11:10 – 12:00

How Not to Get Poisoned

This session will review the potential hazards from occupational and/or casual contact with a variety of insecticides, herbicides and fungicides.

Aquatics Recertification – Room 210-AB (1:00–4:00 p.m.)
Minnesota Dept. of Natural Resources— Steve Inger, Coordinator
This session qualifies for MDA Aquatics (Category F & APCA) recertification in 1999. Aquatic applicators must also attend morning session.

LIMITING STRESS AND PESTICIDE USE: TURF

Topic for Mike Kelly
Glenn Rehbein Companies
Room 208-AD

9:10 – 10:00

Soil Amendments for High Stress Areas

Topics included in this session are soil amendments for turf managers of golf courses, sports fields and parking lots. There are a number of things in our toolbox if we can determine what is expected and what are the use characteristics needed. For example, what are the stresses — compaction, wear, shade or just plain over-use. Possible amendments might be sand, rubber, Netlon Mesh Elements or Pavers.

Topic for John Trey Rogers III
Michigan State University
Room 208-AD

10:10 – 11:00

Turf in Shade

This presentation will cover specific grasses for shady areas as well review management techniques for reduced light areas. Results from MSU Shade research will be highlighted.

Topic for John Hopko
Professional Turf
Room 208-AD

11:10 – 12:00

Cultural Practices

This session will discuss using proper species selection, cultural practices, maintenance techniques and timing of seeding to minimize pesticide applications. Also, turf establishment practices that fit your budget will be covered in this session.

From the Minnesota Department of Agriculture

The MDA is pleased to work with the MTGF to provide the last pesticide applicator recertification opportunity for 1998. Again this year we are offering recertification for Category A, General Ground and Category E, Turf & Ornamentals on Thursday, December 10 from 7:00 a.m to noon. You must be present for the entire morning program to receive recertification credit. The MDA reserves the right to deny credit to applicators that do not attend the entire program. Attendance will be taken with a card system.

Applicators may also recertify in Category F, Aquatics or the Aquatic Pest Control Applicators (APCA) license if they attend the morning session and the Thursday afternoon aquatics session from 1:00 p.m.—4:00 p.m. This recertification session qualifies aquatic applicators, Category F and APCA, for license renewal in 1999. For more information about whether or not you need to attend this pesticide recertification workshop, please contact Wayne Dally at (612) 297-2746 or fax (612) 297-2271.

Short 20-minute Summaries – Pick and Choose – Come and Go

TIME	ROOM	SPEAKER	TOPIC
2:00 – 2:20	208-AD	Dr. Nick Christians	Research Update, ISU
	212-AB	Mark Altman	Micronutrient Fertility for Golf Greens I
	211-AD	Dr. Don Taylor	Research Update: Late Fall Topdressing
	209-AB	Gary Johnson	Research Update: Girdling Roots — Some Causes — Some Affects
	Trade Show NE	Tom Dunlap	Pruning Trees
2:30 – 2:50	Trade Show NW	Butch Greeninger	Plant Nutrient Systems "Bio Pro"
	Trade Show — Center	Vendors	New Product Showcase (5 minutes each)
	208-AD	Dr. Don White	Research Update: Poa Annuua
	212-AB	Mark Altman	Micronutrient Fertility for Golf Greens II
	211-AD	Dr. Nancy Ehlike	Research Update: Bluegrass & Ryegrass
3:00 – 3:20	209-AB	Robert Panuska	Golf Course Drainage
	Trade Show NE	Tom Dunlap	Pruning Trees (repeat)
	Trade Show NW	Kirby Burmeister	Hydraulic System Maintenance
	Trade Show — Center	Vendors	New Product Showcase (5 minutes each)
	208-AD	Dr. Ward Stienstra	Research Update: Greens Covers
212-AB	Troy Carson	MN NTEP Trial Results	
211-AD	Brad Pedersen	Research Update: Low Input Turf Trials	
209-AB	Brad Pedersen	University of Minnesota Horticulture Display & Trial Garden	

Friday, December 11

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8:00 – 9:00	Registration	
9:00 – 10:00	Managing Mature Trees, Dr. E. Thomas Smiley	103-AF
10:00 – 10:10	Educational Pause	
10:10 – 11:00	Concurrent Sessions	
11:00 – 11:10	Educational Pause	
11:10 – 12:00	Concurrent Sessions	
12:00	Close of Conference	

SESSION 1

INFORMATION FOR TREE EXPERTS

Topics for Dr. E. Thomas Smiley
Bartlett Tree Research

Room 103-AF

10:10 – 11:00

Fertilization Standard for Trees

The new American National Standards Institute A300 Standard for Tree and Shrub fertilization will be discussed as well as insight into why the standard was established. The standard may change the way many arborists and landscapers bid on work and apply fertilizer. A must for those writing or bidding on fertilization.

11:10 – 12:00

Mycorrhiza Inoculations for Trees

Topic for Roger Martin
Minnesota Landscape Arboretum
213-AD

The Challenges of Open Space Design II

When designing a major project one can encounter many problems which must be overcome or turned into opportunities. The impact of automobiles, over programming, the lack of spatial organization, standardization, misplaced activities, detailing and others are concerns that must be resolved in any good design.

SESSION 4

FINDING AND KEEPING GOOD EMPLOYEES

Topics for Ms. Sandy Cimmerer
Employers Assoc., Inc.

Room 212-AB

10:10 – 11:00

Hiring Employees in Tight Labor Markets

The shrinking skilled labor pool and very low unemployment create new challenges for employers. This session will suggest a new mind-set needed to recruit in a tight labor market and cover both traditional and non-traditional methods to attract and hire quality employees.

11:10 – 12:00

Retaining Employees in Tight Labor Markets

Today, the quality of your workforce can be one of your best competitive advantages – so keeping good employees is essential. This session will look at the costs and reasons for turnover and cover the key components of a successful retention strategy to reduce turnover.

SESSION 5

TURF GROWTH AND TOLERANCE

Topics for Dr. John Trey Rogers III
Michigan State University

Room 208-AD

10:10 – 11:00

Growth Regulators on Putting Greens

This presentation will discuss research regarding the use of plant growth regulators on putting greens to improve green speed and turf quality. The session will cover results from PGR interactions with other typical green management techniques.

11:10 – 12:00

Extended Turf Life Throughout Improved Wear Tolerance Techniques

This session will center around techniques to reduce wear on turfgrass and improve turf quality. Research results and field experiences will be highlighted.

SESSION 2

SOIL AMENDMENTS

Topics for Don Taylor
University of Wisconsin – River Falls

Room 103-AF

10:10 – 11:00

Organic and Inorganic Amendments for Use In Sandy Root Zone Mixtures

Various amendments are added to sand in developing root zone mixtures for sports turf and golf greens. This presentation will consider the properties of traditional and some new amendments and the results of sand/amendment mixtures on water retention and compaction.

11:10 – 12:00

The Packing of Sand & Sand Amendment Mixtures

Sands pack in various ways. The influence of particle size, uniformity and the volume ratios of sand/amendment on the packing and consequently on compaction level will be considered in this presentation.

SESSION 3

DESIGNING PUBLIC SPACES

Topic for Peter Olin
Minnesota Landscape Arboretum

Room 213-AD

10:10 – 11:00

The Design Process I

Designing any space is a creative problem solving process. Setting goals, inventory and analysis of the site, developing the program of activities and determining space needs, design concepts, construction drawings, construction and ongoing maintenance make up the process.