

Lawn Diseases - Mr. Ed Solon - Chemlawn Corporation
Powdery Mildew - Leaf Rust - Fusarium Blight - Dollarspot - Helminthosporium (leaf spot) - Brown Patch - Smut - Red Thread - Grey and Pink Snow Molds - Pythium — Reviews of turf diseases are always in order. Ed gave us a good overall look at how these diseases affect a home lawn and the controls a homeowner may use. I see this presentation as a tool to help us to communicate with our members. We all know how members ask the superintendents about their (the members) own home problems. This talk will help us towards that end. As our President, Mike Bavier, stated in his message, "Communicating is an art both vital and simple ... There are many such chances to communicate and we must use every one of them. Because we may be denied access to situations such as Board meetings. We often give up on the many smaller, everyday opportunities. A superintendent's communications effort should always start with the small things; first, build meaningful one-on-one relationships..."

Storm Water Management - Bill Lindley - Architect, Lindley & Sons

This discourse on storm water fits in nicely with Dr. Rosillon's speech on water. Storm water is a resource out of place. If we use this run-off water intelligently, it will be an asset to our golf courses. We may use this water for irrigation as well as to beautify and enhance the entire layout. One point that hits home in Mr. Lindley's talk is that storm water management is **not** for amateur architects. So much time and money can be wasted if a less than certified engineer is used, not to mention the poor and non-functional result.

Proper Planting and Care of Trees - Jack Obert

Mr. Obert's specialty is tree planting with an emphasis on mechanical tree planters. The salient points to remember in Jack's talk were:

- (1) use improved varieties
- (2) make sure the root ball is the correct size
- (3) soil requirement of the tree you select

Sand Topdressing - Be Aware -

Dr. William Daniel - Purdue University

Dr. Daniel told us to be cognizant of all the factors that are involved in a sand topdressing program.

BE AWARE: Sand size is very important. Select a sand with suitable particle size. See Purdue University sand analysis paper. Don't try sand topdressing program if you cannot get the proper sand.

BE AWARE: Disease patterns will change on sand topdressed greens. Dollarspot may become a problem.

BE AWARE: Frequency of fertilizer applications and the need for more N may appear.

BE AWARE: The infiltration rates of sand topdressed greens will change as more and more sand is incorporated. Careful irrigation management is needed.

As you can see the main thrust of Dr. Daniel's paper is awareness of what sand topdressing is before you start such a program. It is an excellent procedure but — **BE AWARE.**

Conclusion:

The summing up of this 29th Annual Midwest Turf Clinic is the amazing amount of knowledge one can acquire. All these first class men imparting their wisdom to us and all we have to do is soak it up. To those of you who were in attendance, use the knowledge well. To those of you who were unable to be with us, see you, God willing, at the 30th Annual Midwest Turf Clinic.

HYDRAULIC OIL DYE TORO P/N 44-2500

Toro has available an approved liquid red hydraulic oil dye. This dye has been endorsed by our hydraulic component suppliers as being totally soluble and in no way affects the warranties of their components.

The oil will be packaged in a 20 milliliter (approximately 5/8 ounce) bottle. One bottle will be sufficient to properly dye a 4-6 gallon reservoir. This dye can simply be added to the oil (does not need to be premixed) in the reservoir and it will self-mix.

Remember, hydraulic system maintenance becomes important to protect both the equipment and the property. Leakage is probably one of the major concerns of equipment operators today. There are several things that can be done to prevent unexpected leakage occurrence.

- Routine inspections of machines will often spot potential damage causing deficiencies before they develop.

- Be alert to items such as hoses rubbing on tires or against sharp metal edges.

- Inspect hoses for cuts in the outer rubber coating. If this occurs corrosion can take place on the inner hose wire braid, thus leading to eventual hose failure.

- When removing implements ensure that hoses connected to the reel motors are not twisted. Be careful how and where reel motor is placed so sharp bends are not imposed on the hoses. Careless handling of the motors could also cause the fitting to loosen.

Dirt, water, air, metal particles and improper oils are all agents which cause hydraulic component failure. No matter how well we care for our hydraulic system there will be a certain amount of build up of these contaminants in the hydraulic system. The only defense against these agents is regular hydraulic fluid changes and hydraulic filter changes.

DYE IS NOT A SUBSTITUTE FOR A GOOD PREVENTATIVE MAINTENANCE PROGRAM.

This dye can be used in any hydraulic equipment and will be available through our Parts Department at \$2.49 per bottle.

J. NOER RESEARCH FOUNDATION AIDS RARE BOOK COLLECTION AT MICHIGAN STATE UNIVERSITY

Michigan State University recently acquired, through grand funds from the O. J. Noer Research Foundation, a copy of Dr. Frederick Hanham's **Natural Illustrations of the British Grasses**, published in 1846. The book, bound in blue watered silk, contains 62 preserved specimens accompanied by a descriptive text. The planned 1,000 copies required a great deal of work by Dr. Hanham himself, since he collected and prepared all the 62,000 plants required for the anticipated 1,000 copies to be printed. Half again as many plants would be required due to culling and, understandably, only 850 were printed.

The rare book collection is but one part of the cooperative efforts by Michigan State and the Noer Foundation to establish a collection of books, periodicals, conference proceedings and other literature dealing with turfgrass, its production and management. This includes all copies of **Goldfom** and its successors, **The National Greenkeeper** and its successors and **The Bulletin of the U.S.G.A. Green Section.**

James M. Latham, Research Director