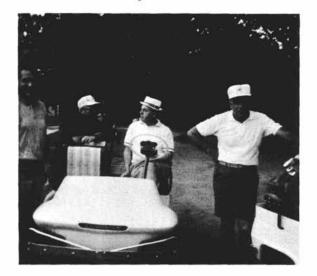
Pictures from a page in the July 1967 "Bull Sheet"



Left to right — Gerald Dearie, Clarence Mitchell and Joe Canale.



Left to right — Bill Hargrave, Bill Krafft and Roger La Rochelle.



Left to right - Ray Schei, Jack Swanson, Ed Burke.



Left to right - Paul, Peter, Andy and Rodney Voykin.



Left to right — Fred Opperman, Bruce Sering, Mike Bavier, Dick Trevarthan.



Left to right — Ben Chlevin, Roy Nelson, Norm Kramer, Oscar Miles.

MISCELLANY

Behind every successful man you will find a woman who has nothing to wear.

Asked to officiate at a friend's wedding ceremony, Justice Felis Frankfurter explained that he did not have the authority to perform the ceremony. When asked why a Justice of the Supreme Court of the United States didn't have authority to marry people, he said, "I guess it is because marriage is not considered a federal offense."

Wash Water Containment Construction Strategies

by Bob Wolf, Extension Specialist University of Illinois — Agricultural Engineering Dept.

By now all licensed turf applicators in Illinois should have received their official notice indicating what needs to be done in order to comply with the recent amendment to the Illinois Lawn Care Act. With that notification a permit and copy of the Lawn Care Act was included. Page 5 of the Act booklet describes Part 256 — Lawncare Wash Water and Rinsate Collection. As was indicated in a earlier article (April 1993, pp. 20-2), general class permits A,B, and C are acceptable guidelines to use for compliance. The permit, which must be approved by the Department of Agriculture, is a relatively simple process to complete. Please read through the instructions carefully. Any questions regarding the permit should be directed to Gerald Kirback at 217/785-0780.

Golf course superintendents would probably want to consider a general class C permit with a structure that is permanent.

Golf course superintendents would probably want to consider a general class C permit with a structure that is permanent. It would also be wise to include the storage needs for the pesticides that are used on the golf course in this design. A structure designed to contain the pad, sump and storage area all under one roof is advisable. The roof eliminates any need to be concerned with the rainfall accumulations and consequent disposal requirements. Moving the strage out of current work areas and away from office facilities is a good idea. If for nothing more than removing the odors associated with a pesticide storage area. The new building and storage area would have improved ventilation and be designed for a better organization for the pesticide products. Improved accuracy in inventory control could be another advantage in building an accompanying storage room. Separate storage facilities are ideal, but are quite expensive.

In addition to the pad and storage area, several other items should be considered when planning the facility. They are: site selection; functional system design; worker safety area; fire safety needs; electrical and ventilation requirements; sizing concerns; rinsate handling, storage and management; type of sump and transfer system; water supply and backflow prevention requirements; and disposal of rinsates and containers.

Several firms are working with designs for structures suitable for golf courses. Cost for an enclosed building designed with a pad, sump, and storage will vary. A ballpark figure would be in the \$7,000 to \$10,000 range for a 24 by 24-foot structure. A suggestion would be to build the storage room in a 6-foot section across the entire length or width of the building. Obviously many factors would go into the actual cost of such a building.

Several have asked about figuring the volume of a pad. The slope and sump volume can be used to satisfy the volume requirements. For example, a Class C pad protected from the rainfall must hold a minimum of 120 gallons or 120% of the largest applicator device volume. In a roofed building the volume requirements would be much less and easier to determine. Depending on the sump design the following formulas can be used to figure the pad volume. (continued on page 24)

Specializing in Golf Course Renovations

• Tees • Greens • Traps • Fairways • Hydroseeding • Plant Installation •

don fiore

landscape contractors & architects golf course contractors

> 28846 Nagel Court Lake Bluff, Illinois 60044 708-234-0020 Fax 708-234-0922

Certified Member: American Society of Landscape Architects Midwest Association of Golf Course Superintendents

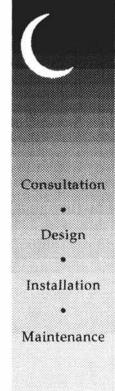
Dramatic. Now, Moonscape can help your grounds become more dramatic, while addressing security and safety concerns.

Subtle,

Secure,

We creatively design & install lighting systems that elegantly highlight your landscape with the subtle glow of moonlight, creating an artistic view of shades & textures.





22

The normal operation of any water pumping system inevitably lead to less efficient well production due to pump war and well plugging.

At Layne-Western we have the resources and expertise to provide you with innovative solutions to keep your water pumping system operating at peak efficiency. Our complete repair and maintenance services help guard against costly breakdowns and quickly solve problems that arise.

Call the Layne professionals with over 100 years of experience in the water supply industry.



ONE WAY TO

IMPROVE YOUR

WELL EFFICIENCY

Layne - Western Company 721 West Illinois Avenue • Aurora, Illinois 60506 • 708/897-6941 229 West Indiana Avenue • Beecher, Illinois 60401 • 708/946-2244



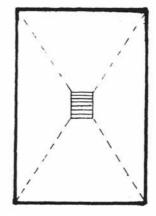
Approximate liquid holding capacity in gallons: Pad with central sump = $\frac{1}{3} \times 7.5 \times L \times W \times D^*$ Pad with trough sump = $\frac{1}{2} \times 7.5 \times L \times W \times D^*$ Where, L = Pad length in feet W = Pad width in feet D = Depth at sump in feet 7.5 = gallons per cubic foot

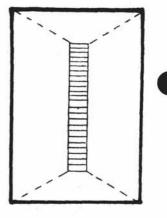
*See illustrations

Information relating to the planning, design, and construction of the above structures can be attained from a book published by the Midwest Plan Service and available from the Agricultural Engineering Department at the University of Illinois. Ask for MWPS-37 *Designing Facilities for Pesticide and Fertilizer Containment*. Contact the author for more information on who to contact regarding existing plans or to get a copy of this manual. The address and phone number is 1304 W. Pennsylvania Ave., Urbana, IL 61801 and 217/333-9418. The book sells for \$15.00.

The next article in this series will discuss the management and operations of washwater and rinsate collection devices.

* The author would like to take some pictures this summer and fall of any construction (during and finished) being done to comply with the new lawncare amendments. Please notify him at the above phone number to make arrangements.





Central Sump

Trough Sump

How to Be Happy

Would you like to know how to be happy? The answer, believe it or not, is known, and it took one of the most brilliant minds ever to appear on the earth to come up with the answer. His name was John Stuart Mill, who lived from 1806 to 1873 and became an outstanding philosopher and economist. John Stuart Mill said: "Those only are happy who have their minds fixed on some object other than their own happiness: on the happiness of others, on the improvement of mankind, even on some art or pursuit, followed not as a means, but as itself an ideal end. Aiming thus at something else, they find happiness by the way."





The Nitrogren release rate of IBDU is generally affected by only two factors: soil moisture and granule size.

because very little Nitrogen is lost through leaching or volatilization.

Choose from over 60 different product formulations.

Tee to Green-Six Keys To Successful Turf

NITROFORM®

Ureaform, a slow-release nitrogen fertilizer available in three convenient formulations, Powder Blue[®], Blue Chip[®] and Blue Granular[®] NUTRALENE*

An advanced controlled release nitrogen product derived from methylene ureas. This versatile nitrogen source is completely available within one growing season and is released through hydrolysis and microbial mechanisms. **TURCAM®**

An insecticide used by professional applicators to control a wide variety of pests including white grubs, chinch bugs, gypsy moths, webworms and bronze birch borers. Also available in a granular formulation. PROGRASS® EC

Selective herbicide used to control Poa annua and broadleaf weeds in fine turfs such as fairway height bentgrass, ryegrass, bluegrass and dormant bermudagrass.

BANOL®

Completely water-miscible fungicide concentrate applied to turf grasses subject to Pythium Blight; it also prevents several fungal diseases that attack ornamentals.

PROXOL® 80SP

FROADL-BOSF Fast-acting insecticide controls most species of white grubs as well as many surface pests in fine turf areas.



BURDETT'S, INC.



2835 South State Street Lower Level Post Office Box 283 Lockport, IL 60441-0283 815-740-5656 fax# 815-723-4485

"Golf Course Work a Specialty"

LEMONT PAVING CO.

Lemont, IL 60439

Jim, Tracy Murphy

(708) 257-6701

KOELPER BROS.

Golf Course Building and Remodeling 444 E. Mors Avenue Wheeling, Illinois 60090

708-438-7881 DANIEL I. KOELPER

708-541-9182 VICTOR C. KOELPER

Territory Manager Thomas E. Skinner Keokuk, IA 319/524-8912



Disease Update — June 1993

by Randall Kane

My, what lovely weather we are having?!? Cool weather diseases are still the main concern, though by now we should be thinking of dollar spot and other warm, humid pathogens/diseases. I just realized that I have seen active Pythium as early as May 26 (1991) and pink snow mold/Fusarium patch as late as July (1992). This year is shaping up much more like '92 than '91 — weatherwise anyway. Blame it on MOUNT PINATUBO.

The prolonged cool, wet weather of '93 may set us up for outbreaks of take-all patch (Ophiobolus patch) of bentgrass caused by the fungus Gaeumannomyces graminis. Gg attacks bent roots when soils are moist and temps are cool (bent is growing slowly and may be more susceptible). Symptoms usually appear in early June of a normal year, when the first heat of the season sets in. However, this year I have already seen some serious symptoms (and heard of others) even though no heat or moisture stress have been put on the plants. Infected plants that I have observed had extensive rotting of roots with vascular systems totally plugged. Control of take-all patch is very difficult, but several steps can be taken to lessen the symptoms (fertility, aerification, hand watering, overseeding). Also, takeall patch usually becomes less severe on a particular site after a few years of infection. This is usually referred to as take-all decline.

I have also seen some cool temp Pythium activity (root pythium) on some Poa annua, some leaf spots of bent and Poa, and some obvious injury from cold night temps and frosts. In the latter case, usually it is the bents that are affected (purple to brown leaf discoloration), but I have also seen several times where a type of Poa (annua?) has turned a deep red to purple color. You can tell this is not a disease because usually it is only the side of the leaf/sheath that is facing the sky that turns red. If you pick up the plant and look at the underside of a leaf, it will still be bright green. Keep an eye out for this.

I was outside today and the wind chill had to be in the forties. It looks like snow ...

Editor's comment: This article was taken from "TURF-TALK", the Computer Bulletin Board service that is now on line and anyone can join. This is the type of material one can pick up if you join. See Roger Stewart's article in the May issue of **The Bull Sheet** to get more information.

Turf Tip

Just because your flag waves in the breeze doesn't mean your green is getting proper air circulation, possibly due to tree or underbrushing nearby.

If in doubt, try the "ribbon test" to monitor air flow on the green. Simply place five or six small pieces of ribbon on a wire stand approximately 2 or 3 inches off the ground and check the air movement on the putting surface in relation to the green's flag. This can often indicate a problem with air movement on the surface, creating increased humidity and disease.

PEERLESS FENCE CO. 3N381 Powis Rd. West Chicago, IL •Chain-Link Fencing •Wood Fencing •Special Gates •Golf Course Work Our Specialty 708/584-7710 Hal Laman

NATIONAL CHEMSEARCH CORP.

Russel Fishman (708) 432-3588



Rich Wagner

2702 Turnberry Road St. Charles, IL 60174 (708) 513-0297 FAX (708) 513-0298

FLORATINE PRODUCTS

JUST FOR THE HEALTH OF IT!

* ASTRON PLUS * PER"4"MAX PLUS * KNIFE PLUS * RENAISSANCE

> and other patented hormone balanced auxiliary nutrient compounds promoting improvements in turfgrass:

*Root Development *Stress Resistance & Recovery *Health & Quality

Decidedly Different in Design & Performance

E-3 TURF PRODUCTS Bud Edman (708) 985-3974



Clesen's can supply custom blended mixes for your special applications!

Whether new installations, broadcast, slit, hydro or overseed applications, our top quality *certified* seed varieties and *wildflower* mixes are the best for the Chicagoland area.

Arthur Clesen, Inc.



543 Diens Drive • Wheeling, IL 60090 • (708) 537-2177 • FAX (708) 537-2199





An Environmental Tradition

More than 60 years of complete, dependable and economical tree service.

Since 1930

Nels J. Johnson Tree Experts, Inc.

Nels J. Johnson, Jr. President Karl G. Johnson Vice President

Complete, economical tree service for Private Estates, Municipalities, Schools, Industrial Areas, Parks & Golf Courses.

All phases of Arboriculture: Consultation, Diagnosis, Removals, Pruning, Stump Routing, Fertilization, Hydraulic Spraying, Chemotherapy and Municipal Forestry.

Fully Insured Main Office: 912 Pitner Avenue, Evanston, IL 60202 Telephone: (708) 475-1877 Fax: (708) 475-0037 Hinsdale: (708) 654-1877 Barrington: (708) 382-2777

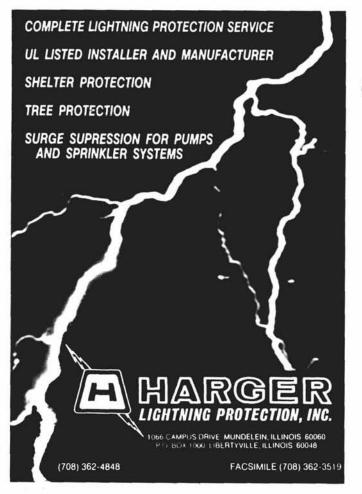


Yes, **washed Penncross creeping bent** and **"Executive Blend" bluegrass sod** has arrived in the Midwest! This new innovation offers many benefits:

- Eliminates traditional interface problems between sod and the existing soil.
- Washed sod consistently roots down more rapidly than conventional sod (typically 3¹/₂" of root growth in just 8 days).
- Will quickly establish into all soil types.
- Lower weight allows for shipping up to 50% more per load

CALL US FOR DETAILS!







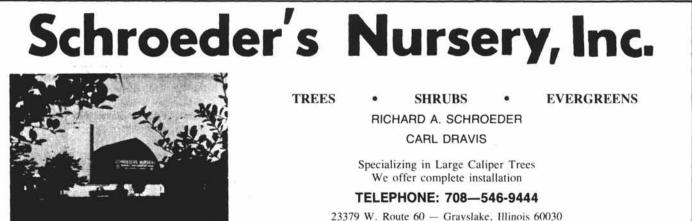


New GCSAA poster campaign to educate golfers

LAWRENCE, Kan., May 8, 1993 — A new campaign to educate golfers has been developed by the Golf Course Superintendents Association of America (GCSAA).

The campaign, composed of a three-poster set, was developed to assist golf course superintendents in educating and informing golfers about three commonly misunderstood aspects of course maintenance: aerification, application of fertilizers and pesticides, and golf car restrictions. The poster series explains why these procedures are necessary for proper golf course management. "In developing these posters to communicate to golfers, we picked three of the most important, but least understood, phases of golf course maintenance," said GCSAA President Randy Nichols, CGCS. "Effective communication with golfers is extremely vital to the success of a superintendent's operation. This poster series will be an important tool in achieving that success."

Each poster includes an explanation of the topic, and is UVcoated so that the superintendent may write in a specific schedule or other information, and wipe it off for re-use. GCSAA's new poster series was designed for use in the pro shop and/or locker room.



23379 W. Route 60 – Grayslake, Illinois 60030 Located on Route 60 between Rt. 12 (VOLO) & Rt. 83 (IVANHOE)

Leaves, Limbs, Needles & Boughs

by Fred Opperman

Tree trivia question: What tree is sought after for containers that are to hold liquids? Answer at the end of the article.

How is a tree named? In order to deal intelligently with trees, to be able to refer to them accurately in writing or in conversation, the tree must have a name. There are basically two names for a tree: the botanical (Latin or Greek derivation) and the common name. An example would be Acer rubrum which is the botanical name and the common name which is, Red Maple.

Every tree has a botanical name that



world wide it is recognized by. It is the exact same tree in America as it is in New Zealand, half a world away. But the common name in many cases is way different. For a far out example is Swietenia macrophylla, which is the species of mahogany. But throughout the countries that grow this tree it is known as: caoba, foja pendula, zopilote de mator pescado, ciruela, cirndillo, dedro mondi, caoba mondi, Guatemalla mahogany, Mexican mahogany and at least another ten or more names. So we need to know the botanical name to be able to discuss and talk about the same tree. (Believe me guys, I got this out of a book, there is no way I would know all those names.)

The botanical name given to a tree, not only names it, but also describes it. Thus each species is given two names. It is assigned to a genus and allotted a specific epithet. As the example of Red Maple is known botanically as Acer rubrum; Acer is the genus of maples, and rubrum, the specific epithet, or description describing the red maple. When writing the generic name is capitalized; the specific epithet may or may not be capitalized. Usually in most writings it is not capitalized.

Most of us do not realize that we are using botanical names in our everyday speech. Some common plant names are the botanical names of the plants, such as: begonia, geranium, chrysanthemum, hydrangea, iris and lotus. Many common names are clearly derived from the scientific names or vice versa, such as juniper for Juniperus, pine for Pinus, larch is Larix and the true cedar is Cedrus.

So, what's in a name? A rose is a rose, right? Well, maybe, but we better have the botanical name if we are talking to someone who can't see what we are calling a rose.

Trivia answer: Quercus alba, White oak, because the pores are filled with tyloses which do not permit liquids to penetrate.



300 ROCKLAND RD., LAKE BLUFF, IL 60044 (708) 234-2172 Fax (708) 234-2754

SPECIALIST IN:

Club House Landscape Design/Build:

Design and installation of specimen plant material for high priority areas. Design and installation of perennial, annual and wildflower displays.

Complete Expert Maintenance Service:

Use Mariani to renovate and rejuvenate shrubs, ornamentals and all landscape areas as you dedicate your precious time on the golf course.

