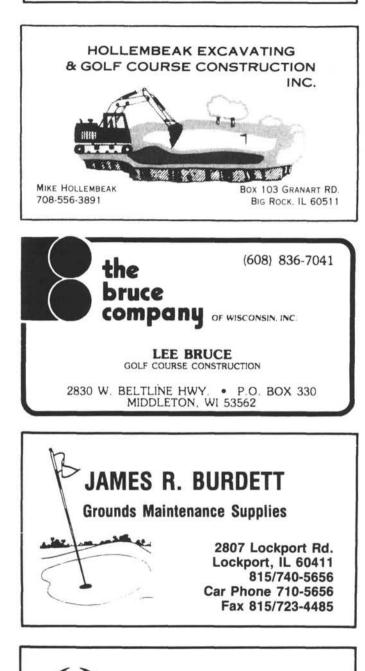
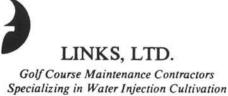


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Upcoming Events — Mark Your Calendar

October 7 — ITF Northern Illinois Golf Day at Stonebridge C.C. and White Eagle C.C.

October 25 - Dinner Dance at River Forest C.C.

November 6 — Midwest Clinic at Medinah C.C.

November 11-13 — Penn State Turf Conference. Contact Dr. Joseph Duich, 814/865-9853.

December 2-6 — "Your Home Turf" Michigan State U. Contact Dr. Frank Rossi, 517/353-0860.

December 2-3-4 - NCTE at Pheasant Run Resort

January 1992 — Arrowhead Golf Club

January 16-18 — Mid-Am Trade Show/Hyatt Regency Chicago

January 20-22 — MRTF Conference & Show, Indianapolis Convention Center

January 20-22 — 62nd Annual Michigan Turfgrass Conference. Contact Mike Saffel, 517/353-9022.

February 10-17 - GCSAA Conference in New Orleans

April 1992 — Geneva Golf Club

June 22, 1992 — River Forest Golf Club

July 13, 1992 — Briar Ridge Golf Club

August 1992 — Mt. Prospect Golf Club

October 1992 — Settlers Hill Golf Club

1991-1992 Slate of Officers and Board of Directors

President: Raymond Schmitz, Flossmoor Country Club Vice President: Tim Kelly, Village Links of Glen Ellyn Secretary-Treasurer: Al Fierst, Oak Park Country Club Three to be elected for a two year term:

Paul Bastron, Glen Flora Country Club Dave Blomquist, Naperville Country Club *Ed Braunsky, Geneva Country Club Kevin Czerkies, Sportsman Country Club

Doug Long, Oak Knoll Golf Club

*Joel Purpur, River Forest Country Club

*Incumbent

Committee Chairmen: Dave Meyer; Roger Stewart, Jim Evans, Dave Behrman, Mike Nass

I hope all of you superintendents that are building new courses and doing major remodeling jobs are thinking of saving the blue certified tags that come with your seed. The Musser Foundation is collecting these tags and the "Tee to Green Company" is paying 50 cents for each tag returned. Save your tags and turn them in to either Mike Bavier of Inverness or Dudley Smith of Silver Lake G.C.

The host of our golf meeting at Biltmore C.C. this month was Chicago Turf and Irrigation. Be sure to thank Ron and Mary Jones for their excellent hospitality. October is supposed to be the 10th issue of **The Bull Sheet** for 1991, but for me the Editor, it is the 12th! Our fine postal system has once again lost my paste up copy I sent to the printers. This issue is about 80% different than the original one I put in the mail on September 13th. Again I must apologize to all our members and the host, Bob Wilkins at Biltmore C.C. where we held our October meeting. The newsletter was scheduled to be out before the meeting. Any advertisers who sent ads specifically for the month of October please call me and I will give you credit for that month.

M.A.G.C.S. MIDWEST TURF CLINIC

Medinah Country Club November 6, 1991

	riorennoer o, issi
9:00-10:00	Registration, Coffee & Rolls
10:00-12:00	Educational Sessions
12:00- 1:00	Lunch
1:00- 3:30	Educational Sessions
3:45- 5:00	Annual Meeting
5:30	Dinner
	CDEAVEDS & TODICS

	SPEAKERS & TOPICS
Roger Stewart Stonebridge CC	The Ameritec Senior Open
Tom Prichard Lakewood GC	Back from the Wild
Fernando Fernandez Green Acres CC	Reconstruction of Green Acres
Rory Bancroft Glenwoodie CC	Regulations: Dates to Know
Bruce Williams Bob O'Link GC	GCSAA Update
Joe Jemsek Cog Hill GC	The Western Open at Cog Hill
Lou Haines Innova Corporation	Isolite & Water Absorbing Polymers
Dean Bemis Vaughn Seed Co.	New Annuals for 1992
Lou Cassara Cassara Associates	Personal Finance

William (Bill) Huber, owner/operator of Huber Ranch Sod Nursery, Schneider, IN, was elected a trustee of the American Sod Producers Association (ASPA) at the group's recent summer convention in Portland, OR. He will serve the 900-plus member, 21-country non-profit association of professional turfgrass sod producers for three years.

Huber, an ASPA member since 1970, completed a one-year trustee appointment prior to being elected to the 3-year position. During the past year, he served as chairman of the group's production technique's committee and vice chairman of its manufacturers' advisory council.



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(Drainage Systems cont'd.)

per inch. Surface is constantly saturated and soft in the winter soccer/football playing periods.

Solution: The problem was determined to be a dense and impenetrable 2-inch layer of thatch that had built up over some 20 years. Field was verticut with a commercial thatcher until the surface sealing thatch was removed. Field drains well without use of drain tile, reconstruction or sanding. Cost per acre equals \$750*.

*These cost estimates are general in nature and will vary greatly depending upon availability and most of permeable materials. Seek professional assistance before budgeting for a drainage project.

Summary

Every turfed area that is subject to heavy winter play, be it a playfield, golf course, park or school yard, must be able to cope with the destructive nature of heavy traffic and excess moisture. Either nature provided the site with natural drainage or we must be expected to do so in some artificial manner. The degree of corrective drainage required is a function of the soils of each individual park, playfield or fairway. Before you spend dollars for treatments that may harm the drainage as much as help it (or not really help it at all), take the time to find out what types of soils you have, how they perc or how they infiltrate and then decide on a course of action. It is a well known fact that there are more dry drain tiles than functioning drain tiles in heavy soiled athletic areas. So often maintenance personnel are under pressure to "Do something about the drainage!" And so, "Something" is done whether it is drainageeffective or cost-effective or not. Take the time to learn about what you have in the way of soils on each of your parks, on each of your playfields and each of your fairways. Then and only the will you be able to address the proper remedies to your drainage problems.

Presented at the 38th Northwest Turfgrass Conference. Sheraton Hotel. Spokane. WA, September 18-20, 1984

2Professional Engineer, C. H. Kuhn and Associates, Mercer Island, WA

Book Review

by Dave Blomquist, Naperville Country Club

Interested Superintendents should pick up a copy of the book "Trashing the Planet." Author Dixy Lee Ray provides fascinating and timely insight about everything from pesticides to acid rain. This book provides information for superintendent's operating in "environmentally sensitive" areas.

These are some outtakes from the book:

• "Pesticides have reduced America's food costs 33% by controlling weeds, insects, mold and rot in vegetables and fruits. They have helped to keep our food and our homes clean by controlling ants, rats, mice and cockroaches. Through the use of wood preservatives in pressure treated lumber, we have saved a forest of trees two times the size of New England."

• "The most important fallout from the decision to ban DDT was that it gave credibility to **pseudoscience**. It created an atmosphere in which scientific evidence can be pushed aside by emotion, hysteria and political pressure."

I found it interesting to read a different point of view. This book debunks every "environmental crisis" and forces the reader to use common sense, or review legitimate scientific data vs. emotional knee jerk pressure.

Leaves, Limbs, Needles and Boughs

by Fred D. Opperman

Along with highlighting a tree this month, I thought I would update you on the nursery business. If ever there was a classic example of the laws of "Supply and Demand" in action, that situations exists today in the nursery industry. Over the past several years, hundreds of thousands of shrubs, shade trees, ornamental trees and evergreen trees have been planted in the Chicago-area and midwestern nurseries. An extremely strong construction environment more than justified the expansion programs undertaken by many commercial growers.

It is not surprising therefore, that as construction activity has slowed, nursery inventories are building, and price competition is becoming evident. The winner in this situation is anyone who has set aside funds for plant material purchases. The value that is obtainable in today's marketplace is unprecendented, and, for the next year at least, it promises to get even better. There are, of course, many items that are not in abundant supply, and this will be discovered in the shopping process. But for someone who has even a moderate degree of flexibility in his plant buying program, there is an excellent opportunity to dramatically stretch the buying power of his budget.

This month we will get back into the needles and boughs. I haven't highlighted this family of trees yet in my monthly articles. This tree is truly majestic and grows so well in our area that more people need to add it to their landscape plans. Abies concolor — (a'bez kon'kul-er) — White (concolor) Fir. Leaves: Curving outwards and upwards or almost vertically arranged on the stems, 2 to 3'' long and 1/12 to 1/10'' wide, flattened, glaucous on both surfaces, apex short-pointed or rounded, upper surface slightly convex, not grooved, with faint lines of stomata, lower surface with 2 faint bands of stomata separated by a green band.

Buds: Large, broadly conical, blunt, covered with a resin which conceals the scales, light brown.

Stem: First year, glabrous or minutely downy, yellowish green, second year, grayish or silvery.

Size: 30 to 50' in height by 15 to 30' in width, can grow to 100'.

Bark: Smooth on young stems except for resin blisters, 4" to 7" thick on old trunks, ashy gray and divided by deep irregular furrows into thick, horny flattened ridges.

Cones: Stalked, cynlindrical, 3 to 6" long, and pale green before maturity often with a purplish bloom.

Culture: The best fir for the midwest and east; transplanted balled and burlapped; while withstanding heat, drought and cold equally well, it prefers and makes best growth on deep rich, moist, well drained gravelly or sandy-loam soils. Dislikes heavy clay soil. Can tolerate light shade.

Diseases and Insects: None serious.

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Midwest Association of Golf Course Superintendents — Video Library VHS Format

The following VHS format videos are available for viewing. These are available for limited time checkout. The selection is being updated continuously as different videos become available. Let us know if you are interested in any of these.

- 1. Crooked Stick 1991, Prelude to Play
- 2. Landscape Equipment Safety, Vol. I, II, III, IV (English)
- 3. Pesticide Use and Benefits
- 4. Farm Chemical Safety
- 5. Lawn Equipment and Use
- 6. Integrated Pest Management
- 7. MSDS
- 8. Safety Compliance
- 9. How Safe are Chemicals
- 10. How to Prevent on the Job Back Injuries
- 11. Hydroseeding Applications
- 12. Silent Society (insects)
- 13. Cutless
- 14. When a Crisis Strikes (media mgt.)
- 15. Midwest Divots
- 16. Sod Laying Techniques
- 17. Professional Turf Management
- 18. Landscape Irrigation
- 19. Home Lawn Care
- 20. Home Lawn Establishment
- 21. Lawn Weed Control
- 22. Introduction to Golf Course Maintenance (English)
- 23. Introduction to Golf Course Maintenance (Spanish)
- 24. Pesticide Handling (Spanish)
- 25. USGA Green Construction
- 26. Landscape Pruning (English & Spanish)
- 27. Eye Safety
- 28. Fires and Extinguishers
- 29. Those were the Days
- 30. Working with Pesticides Vol. I, II, III, IV (English)
- 31. Tractor and Bobcat Safety
- 32. Lawn Equipment and Mowing Safety
- 33. Lawn Mower Maintenance (Spanish)
- 34. Riding Mower Safety (Spanish)
- 35. Large Equipment Safety (Spanish)

Some of our titles are currently out and perhaps have been passed along to other superintendents. If you have any of these, please return to Alan T. Fierst (708/453-7525) at the next MAGCS meeting.

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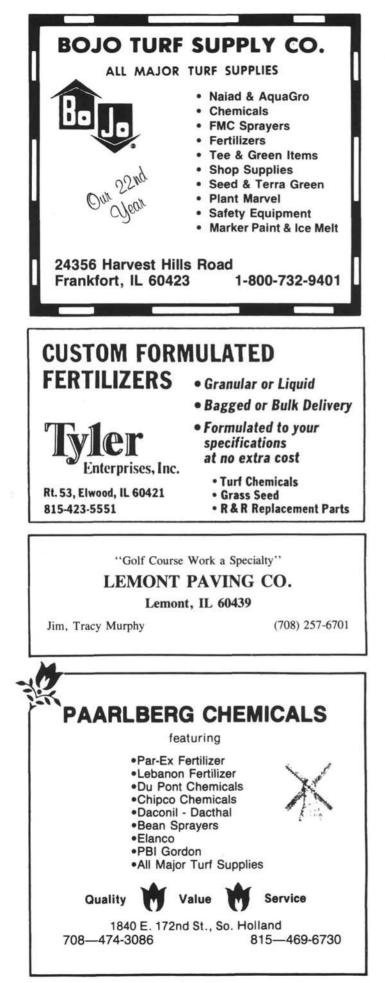
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The Instructors: Golf course architects Brian M. Silva (Cornish and Silva) and Jan Beljan (Fazio Golf Course Designers) instruct this popular course. Their combined expertise represents a unique perspective. An extensive collection of slides illustrates the concepts they will present.

The Location: Pheasant Run Resort and Convention Center, less than an hour from Chicago, will again host our program. Rates of \$78 for single or double occupancy rooms are offered to participants making their reservations by December 8, 1991. Lodging is the responsibility of the individual registrant.

The Price: Enrollment fees are described on the enclosed registration form. Note special rates for Earlybid registrants and non-GCSAA members attending with members from the same facility: Lunch on both days is included in the registration fee. GCSAA will award 1.4 Continuing Education Units (CEUs) and a certificate of achievement to seminar participants passing an examination at the conclusion of the seminar.

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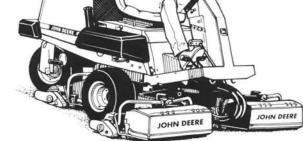


The Results of the Sept. 16 MAGCS Meeting Golf Event at Ridgemore C.C.

Event was our annual championship. All players were flighted and paired by handicap. Winners in gross and net were as follows:

Championship Flight	
Gross winners	Net winners
1. Paul Bestron – 78	1. Brian Bossert - 76
2. Bob Kronn – 79	2. Ed Fisher – 79
First Flight	
1. Kerry Blatteau – 78	1. Ken Goodman – 73
2. Kevin Czerkies – 83	2. John Malloy – 75
Second Flight	
1. Jerry Cooper – 85	1. Steve VanAcker – 7
2. Brad Johnson – 87	2. Don Sella – 75
Third Flight	
1. Don Ferri – 98* (Won Scd. P/off)	1. Rich Kensinger – 75
2. Kevin Deroo – 98	2. Kevin Knudson – 80
Senior Flight	
1. John Stevenson – 89	1. Bill Kraft – 76
2. Don Gricus – 92	2. Albie Stoudt – 77
Commercial Flight	
1. Phil Taylor — 82	1. Tim Layden – 74
2. Dave Louttit – 86	2. Bud Edman - 76
Closest to pin winners: 1. Jerry Cooper	
2. Jim Knulty	
3. Tim Miles	
4. Paul Bastron	
Longest drive winners: 1. Kevin Czerkies (regular)	
2. Albie Stoudt (Senior)	





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TURFGRASS NUTRITION STRATEGIES

by Dr. James Beard

Texas A & M University

Turf and lawngrass nutrition can be complicated. In order to adequately meet plant needs, a combination of different strategies may be employed. Dr. Jim Beard has devoted considerable time and effort to research in this area. Here he presents the following for your consideration.

• There are 9 major effects of nitrogen on turfgrasses:

- 1 shoot growth;
- 2 root growth;
- 3 shoot density;
- 4 color of foliage;
- 5 disease proneness;
- 6 heat, cold, and drought hardiness;
- 7 wear tolerance;
- 8 recuperative potential and rate;
- 9 composition of the turfgrass community.
- Nitrogen rate of application should be limited to no more than one pound of nitrogen per 1000 square feet of water soluble types.
- The first response of nitrogen is on color of foliage. There
 are many gradations of green. The darkest green turf is not
 necessarily the most healthy.
- Nitrogen has an effect on disease. The application rate, the nitrogen carrier and application timing can either increase or decrease disease incidence.
- Under low nitrogen turf management, grasses are more prone to dollar spot, red thread and rust, for example.
- Use of nitrogen carrier Oxamid has resulted in no brown patch on St. Augustine grass.
- Timing of nitrogen applications in the late fall have produced more snow mold.
- Look for nitrogen deficiency first by checking the tips of older leaves (the lower and outer leaves). When they are pale green, this is the first indication. The yellow of these leaves will progress toward the base as deficiency intensifies.
- Nitrogen deficiency is encouraged by removal of clippings. As much as 2 pounds of nitrogen per 1000 square feet may be lost in a year.
- Coarse textured soils that are low in organic matter are prone to production of nitrogen deficient turf.
- Where there is intensive rainfall, nitrogen leaches away and the turf becomes nitrogen deficient.
- Phosphorus is not readily leached from the soil. At soil pH levels from 6 to 7, it is most available. In addition, turfgrass requirements for phosphorus are low.
- Phosphorus has 4 major effects on turfgrasses:
 - 1 aids in establishment;
 - 2 promotes rooting;
 - 3 causes maturation of plants;
 - 4 enhances seed production.
- When phosphorus is deficient, the foliage becomes darker green a dull bluegreen. Older leaves exhibit this coloration first. Only a little phosphorus is required to correct this.
- Potassium is a good turf restorer. It affects rooting, drought, heat and cold hardiness, wear tolerance and disease proneness.
- With adequate potassium, there may be 1/3 more roots.

(continued page 22)



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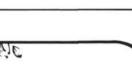
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