



MGCSA Meeting Notice

Date: November 16, 1972
 Place: Lake Isle C.C.
 Golf: Available prior to meeting
 Lunch: Available in grill room
 Cocktails: 5 P.M.
 Dinner: 6 P.M. Sharp
 Annual meeting immediately following dinner

Annual Meeting:

Each Committee chairman will give a typewritten report at the annual meeting. This should include a financial statement also. A request for meeting dates and clubs for next year will be asked of all members. Please contact your clubs now so that we don't have a problem later on with conflicting dates or depending on the same clubs to host our meetings. This is also the opportunity for members to present your gripes or comments on how MGCSA might become a better association.

Coming Events:

Dec. 6-7 MGCSA Management Seminar
 Sharton-Tabacco Valley Inn
 Windsor, Conn.

MGCSA ANNUAL CHRISTMAS PARTY

Date: Saturday, December 9, 1972
 Cocktails: 8:30-9:30
 Dinner & Dancing: 9:30-1:30
 Music: 5 piece orchestra with vocalist
 Place: Sleepy Hollow Country Club
 Route 9, Scarborough, N.Y.
 North of Tarrytown, N.Y.
 Host: Joseph Camberato
 Price: \$35.00/couple
 Please mail your checks before December 2nd to:

John Sundolm
 569 Bedford Road
 N. Tarrytown, N.Y. 10591

Make checks payable to Metropolitan Golf Course Superintendents Association.

NJGCSA ANNUAL CHRISTMAS PARTY

Date: Friday, December 15, 1972
 Place: Fairmount Country Club
 400 Southern Boulevard
 Chatham Township
 Cocktails: 7-8
 Dinner: 8
 Price: \$30.00/couple
 Make checks out to N.J.G.C.S.A. and mail before December 1 to:
 N.J. Golf Course Superintendents Association
 66 Morris Avenue
 Springfield, N.J. 07081
 No tickets sold at door.

Rutgers University Turf Course

January 15-17 Lawn and Utility Turf
 January 17-19 Golf and Fine Turf

Jan. 7-12 44th GCSAA Conference
 Boston, Mass.

INFORMATION FOR MAINTENANCE CLINIC

What: MGCSA Fall Maintenance Clinic
 Where: Elmwood C.C. Maintenance Building
 On Dobbs Ferry Rd. (Route 100B)
 opposite Westchester Golf Range
 When: Tuesday, November 21st, 10:30 to 2:30
 For Whom: All Key Personnel engaged in Golf Course Maintenance
 Features: Discussion, Demonstration, Question & Answer on the following topics:
 Safety
 Lubrication
 Trouble-shooting
 Causes of Breakdowns

Clinic plans call for the discussion leaders to be both from the Superintendent and Commercial Service fields. Bring your notebook and questions. Dress will be informal, of course.

REFRESHMENTS AVAILABLE FROM NOON UNTIL 1:00

Special Program Committee	Nick Marino
Bob Alonzi, Co-Chairman	Al Moore
Bob Bruce, Co-Chairman	Andy Androsko
Bob McGovern	Harry Nichol





Garry Crothers *Co-Editor*
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MGCSA News

We had a good turn out at Sunningdale. It was a beautiful day for golf and those who did play enjoyed it. The course was in excellent shape. Dick will be doing a lot of drainage work this fall. The many yellow paint marks showed the many areas he hoped to work on this fall. No doubt everybody is doing some drainage this fall after our early wet summer.

We certainly want to thank the Labriolas again for the great spread at the picnic. I know everybody looks forward to it. The summer is gone and everybody can relax a little.

Speaking of PR how about the full page picture of Chuck Martineau in the *New York Daily News* just after our first snow. It was the front page too.

We wish John Sundholm a speedy recovery from his recent accident with a chain saw.

The Special Program Committee has worked hard in setting up a Fall Maintenance clinic. Let's try to be there. See you all at the annual meeting.

Membership

The following members have been approved by the executive board:

Richard Gonyes	Class A	Rye, Golf Club
Walter Hetzer	Class A	McCann Memorial Golf Course
Robert Phipps	Class A	Shorehaven Golf Club
David G. Enos	Class B	Elmwood Country Club
Flippo Luciano	Class B	Round Hill C.C.
Emanuel Shemins	Class C	Emanuel Shemins Nursery

Job Openings:

Superintendent

Playboy Club, McAfee, New Jersey
 27 holes & Hotel area, salary open, fringe benefits, no housing.

Contact or send resume to:

Dennis Schuster, Supt.
 Playboy Club, McAfee, N.J. 07428

Assistant Superintendent

Upper Montclair Country Club
 Call: Bob Nixon (201) 744-7900

Position Available

Shackamaxon Country Club
 Scotch Plains, New Jersey
 18 Holes – Salary Open

Send resume to:

Mr. George Pluhar
 c/o Shackamaxon Country Club
 P.O. Box 656
 Westfield, New Jersey

Safety and Health Act Audio-Visual Available

A 20-minute audio-visual analysis of the Occupational Safety and Health Act is now available for employers and insurance carriers.

"OSHA MADE CLEAR," consists of 80 color slides, packed, ready to show, in a Kodak carousel, with a 20-minute tape cassette. It is offered for purchase or weekly rental exclusively by The Film Library of the Greater Los Angeles Chapter of the National Safety Council.

Produced with the technical assistance of the U.S. Department of Labor, OSHA Enforcement Division, and the California Division of Industrial Safety, with special industry consultants, Marsh and McLennan, Los Angeles, this very latest update on the Occupational Safety and Health Act is concisely narrated by Joseph M. Kaplan, CAE, executive vice president of the Greater Los Angeles Chapter.

"OSHA MADE CLEAR" is a MUST for executives, management, supervisors, arborists, workmen's compensation personnel, industrial, employee relations, labor relations staff . . . in short, for each and every individual who has responsibility for meeting requirements of the Act.

Inquiries regarding "OSHA MADE CLEAR," as well as requests for The Film Library's new catalog of safety and training films, should be directed to: THE FILM LIBRARY, Greater Los Angeles Chapter, National Safety Council, 3388 West 8th St., Los Angeles, Calif. 90005.

(Reprint from Weeds, Trees and Turf,
 August 1972)

Stripe Smut in Turfgrasses
Philip M. Halisky and C. Reed Funk

Stripe smut is caused by a fungus that infects both annual and perennial grasses. Among the turfgrasses, stripe smut is most commonly found in Kentucky bluegrass and creeping bentgrass. Only rarely is stripe smut found in red fescue or perennial ryegrass. The disease has not been observed in either zoysia or bermudagrass.

Symptoms

Early in April infected bluegrass plants appear as yellowish tufts of stunted, sick-looking grass. Closer examination will reveal the presence of grayish stripes in the leaves which later turn black and rupture releasing millions of smut spores into the soil. Smutted leaves subsequently curl and tear along these stripes resulting in plants that appear tattered or shredded. Such infected plants are readily destroyed by summer heat and drought resulting in visible thinning of the turf in late spring. Furthermore, smut-infected plants are more susceptible to other fungus diseases such as leaf spot and crown rot caused by *Helminthosporium vagans*.

Underground Fungus

Although stripe smut is most commonly seen in the leaves of infected grasses, all infection takes place underneath the soil.

No infection takes place through the leaf surfaces. Spores of stripe smut are soil-borne and infection from these spores takes place through axillary buds on the crowns, and rhizomes or through the coleoptile, all beneath the soil surface. Once the smut penetrates a grass seedling, the mycelium or fungus threads become established internally throughout the plant.

In newly-planted turf areas stripe smut is usually not conspicuous for several years. However, as the turf matures the incidence of smut builds up precipitously during the third to sixth years, especially in susceptible varieties.

TABLE 1

Bluegrass Variety	Age of turf and no. smutted tillers/sq. ft.		
	4 yrs. 1966	5 yrs. 1967	6 yrs. 1968
Pennstar	4	27	33
Fylking	10	12	39
Newport	14	157	181
Merion	188	335	582

Bluegrass and Bentgrass Hosts

Among the bluegrasses those cultivars that tiller profusely appear to be infected with stripe smut more frequently. These include Merion, Newport, Windsor, Prato, and Cougar. In contrast, varieties with a rhizomatous habit of growth appear resistant to stripe smut. These include Pennstar, Fylking, Bonnieblue, Adelphi, Park, Syd sport, Sodco, Warrens A-20, Warrens A-34, NJE P-57, and NJE P-29. The relative resistance and susceptibility of selected varieties of Kentucky bluegrass to stripe smut are shown in Table 2.

Comparison of stripe smut incidence in Kentucky bluegrass varieties at Rutgers University.

TABLE 2

Bluegrass Variety	Smutted Tillers/sq. ft.
Pennstar	0
Fylking	0
Anheuser Dwarf	0
Bonnie blue	1
Belturf	2
Delta	11
Bellevue	11
Windsor	41
Merion	228

Among the creeping bentgrasses stripe smut has been reported in Seaside, Washington, Evansville, Penncross, Pennlu, Arlington C-1, Cohansey C-7, Toronto C-15, Congressional C-19, and Old Orchard C-52.

Table 1. Reaction of four bluegrass varieties to stripe smut infection showing progressive build-up of disease during three successive years.

In bentgrasses stripe smut is important on golf greens in the mid-West and southward to Missouri.

Pathogenic Races

Although stripe smut occurs in both bluegrasses and bentgrasses, there is no danger of the smut cross-infecting from bluegrass to bentgrass or vice-versa. The reason for this is that the smut races on *Poa* and those on *Agrostis* are different pathogenically and each group is specific for its respective host genus. This pathogenic specialization prevents the indiscriminate spreading of stripe smut among different genera of turfgrasses as commonly found on golf courses. Furthermore, the blending of turfgrass seed to include red fescue or perennial ryegrass with Kentucky bluegrass also is highly desirable from a standpoint of stripe smut control.

Chemical Control

Before the advent of systemic fungicides it was virtually impossible to control stripe smut in turfgrasses. Because the mycelium of stripe smut is established internally as systemic infection throughout the grass plant, attempts to control the disease with protectant fungicides generally failed. The control of stripe smut with the systemic fungicide "benomyl" has been well documented in recent years. Subsequent research further indicated that late fall applications of benomyl were more effective and required less chemical than corresponding spring treatments. The data in Table 3 verify the effectiveness of fall applications of benomyl and indicate the dosages required for various levels of stripe smut control.

Not all the systemic fungicides are effective against stripe smut. Many of the systemics that were reported to show some activity against the fungus in preliminary trials failed to control the disease under turf-maintenance conditions. Recent studies have revealed that two experimental pyrimidine compounds (EL-273 and EL-279) are even superior to benomyl in controlling stripe smut. However, these are not available commercially at the present time.

TABLE 3

Effect of a single application (October 30, 1969) of benomyl fungicide on stripe smut incidence in Merion Kentucky bluegrass during the following spring (May 18, 1970).

Dosages of benomyl* 50-WP	A.I.	Smutted tillers/sq. ft.
0	0	233
3	1.5	78
6	3	7
9	4.5	3
12	6	1
24	12	0

*Dosages are given as ounces of formulated product (50% wetttable powder) and as active ingredient, respectively, per 1,000 sq. ft. of turf. Benomyl is registered for turf usage as Tersan 1991.



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