

NGSA EDUCATIONAL PROGRAM

Wednesday, January 31, 1951

MORNING SESSION

Bill Glover, Chairman
Director, NGSAs

The Progress in Course Maintenance in the Past 40 Years from the Golfers Point of View—Chick Evans, Evans Scholarship Founder, Chicago, Ill.

The Next 25 Years in Greenkeeping—Herb Graffis, Editor of Golfdom, Chicago, Ill.

Things I See While Playing Golf—To be selected.)

Chickweed and Clover Control on Fairways—O. J. Noer, Agronomist, Milwaukee Sewerage Commission.

AFTERNOON SESSION

Phil Cassidy, Chairman
Director, NGSAs

Chemicals and the Greenkeeper—T. C. Ryker, Plant Pathologist, Semesan Products, E. I. duPont de Nemours & Co., Wilmington, Del.

Golf in the Public Recreation Program—Packy Walsh, Golf Supervisor, Chicago Park Dist., Chicago, Ill.

Fairway Turf Maintenance at My Club—Colin Smith, Supt. Shaker Heights CC, Cleveland, Ohio; Bruce Matthews, Supt. Green Ridge CC, Grand Rapids, Mich.

Results of National Cooperative Turf Fungicide Trials—Eric G. Sharvelle, Asso. Pathologist, Purdue Univ., Lafayette, Ind.

Bent Greens in the South—Alex Repin, Supt. Tulsa CC, Tulsa, Okla.

Large Scale Control of Mosquitoes and Flies on the Golf Course—Limus C. Palmer, Supt. County Parks and Forests, Grand Rapids, Mich.

Thursday, February 1, 1951

MORNING SESSION

Leonard Bloomquist, Chairman,
Director, NGSAs

A Coast to Coast View on Golf Turf—Charles K. Hallowell, Penn State College, State College, Pa.

Tips on Public Speaking—Midwest Institute of Speaking, Chicago, Ill.

How to Make Tees Better for Play—Bill Johnson, Golf Manager, Municipal Golf Courses, Los Angeles, Calif.; Bob Williams, Supt. Beverly CC, Chicago, Ill.

Aeriation and Drainage—Dr. Fred V. Grau, USGA Green Section, Dir., Beltsville, Md.

AFTERNOON SESSION

Leonard Strong, Chairman
Director NGSAs

Fairway Watering—William H. Daniel, Assistant in Agronomy Dept., Purdue University, Lafayette, Ind.

The Use of Lime for Turf—Victor A. Tiedjens, Director, Virginia Truck Exp. Station, Norfolk, Va.

Progress Report on Bent in Central Tennessee—Charles Danner, Supt. Richland GC, Nashville, Tenn.

Progress Report on Crab Grass Control—Harvey L. Lantz, Associate Professor, Iowa State College, Ames.

Official Announcements

Dutch Elm Disease and Oak Wilt—Noel B. Wysong, Chief Forester, Cook County, Ill.

Managers' Convention Opens at Dallas, Tex., Feb. 7

Club Managers Assn. of America annual convention will be held at Hotel Baker, Dallas, Tex., Feb. 4-7. Present indications are for largest attendance in CMAA history, according to Pres. Wm. B. Bangs, Jr. The Texas Lone Star chapter of the association as hosts have planned general and division sessions of high practical value and have arranged an entertainment program which the Texans are confident will exhibit the newest notes in club affairs.

Royce Chaney, manager of Northwood CC, Dallas, and pres., Texas Lone Star chapter, is convention chairman. Chaney also has had added to his assignments that of presiding over the Country Club Round Table. Many questions to be discussed at this division session already have been submitted in letter form by country club managers. The problems are numerous in view

of the labor, food prices, tax, construction and improvement angles of the defense emergency situation hitting country club operation sharply.

Plan Women's Entertainment at NGSAs Convention

Mrs. Frank Dinelli and Mrs. Ray Gerber, heading the committee of wives of Midwest Assn. of Golf Course Supts., planning entertainment for wives of superintendents at the NGSAs convention at Chicago, Jan. 29-Feb. 2, have planned an interesting and lively entertainment schedule.

Among events slated are Don McNeil's Breakfast club, a dinner, tour of Chicago by bus, smorgasbord at the famed Kungsholm restaurant, inspection of a rug manufacturing plant, a tour and luncheon at the Stock Yards with Swift as hosts, a matinee party and a tour of the Chicago Tribune plant.

Get Advice of Experts in Improving Pro Shop

By MAX ELBIN

Professional, Burning Tree Club, Bethesda, Md.

With restrictions on building, the improvements in pro shops that are long overdue in many cases will have to be made in easy stages. Nevertheless these improvements will have to be made simply for the reason that they primarily are for the increased interest and service of the club member. In times of national tension the private golf club, because of its membership including a high percent of the community's and nation's leaders, has more of a responsibility than I think is realized sometimes. Every phase of a club's activities has to be calculated to freshen up the members and give them renewed pep for going back into their particular sector of the battle line at home.

Consequently a "new look" at the pro shop is very important to the members. The pro's benefits come as an accompanying element but, as all the pros know, the pro doesn't have to worry much about the success of his operations being pleasantly reflected in his financial statement when he makes his first thought his members' enjoyment.

Pro shop conditions vary so much that a lot of ingenuity and expert advice is needed to make whatever alterations and improvements can be afforded. The pro and the club officials need all the help they can get from architects, store planning specialists, carpenters, painters and electricians. They all can supply ideas that will make the shop inviting to the member and prospective customer. But first they have to understand the pro's problem which, at a private club is not the problem of installing a small store into club facilities but the problem of adding another pleasant convenience to add to members' enjoyable use of the club.

Shop Must Be Appropriate

The pro shop must have an atmosphere that fits the club. If the shop isn't appropriate and indicates the character of the club then somebody had better get busy revising the shop quickly.

Location and size are primary factors in the right sort of a pro shop. Often there are possible rearrangements of clubhouse space that will fit the shop location and size better into the operating scheme than it was fitted in the original plans.

Preferably the shop should be located in the clubhouse so traffic from the locker-room to the first tee and from the eight-

eenth green to the locker-room goes through the shop. It should be on the same level as the locker-rooms. Shops in out-of-the-way locations in clubhouse basements or second floor are inconvenient for the players and are visited only when the player is in need of some playing equipment. Many of the needs the members don't realize until they are reminded by attractive displays as they walk through a shop.

Second in importance in pro shop design and construction is the matter of lighting. Large windows are excellent and prove helpful in creating a cheerful atmosphere and in presenting the shop merchandise in the proper light. A dull look in a pro shop doesn't do the members' temperament any good either for enjoying their games or for buying merchandise.

Large windows help give a shop the all-important appearance of cleanliness. These windows encourage members to spend some time in the shop, particularly when they can see from the windows some of their friends playing.

If light can't be supplied naturally get electricians or illuminating engineers from your electric company to advise on the most fitting artificial illumination. Don't get any sort of lighting just because it shines brightly. There are many selling and mood tricks to artificial illumination that the pro possibly never imagined.

Wall, fixture, ceiling, floor, rug and curtain color is very important in the pro shop. Much can be done with paint and colored materials in giving the shop a most attractive appearance.

Displays should be installed along walls at eye level and be well lighted. The floor displays also can get more attention to lighting than often is received. So many times the possible customer doesn't get a clear, attractive view of the merchandise for sale.

When possible, shelving rather than cases, should be used to display the accessories such as clothing, shoes, headwear, etc. This may require a bit more work in keeping the stock clean but that's one of the best ways spare time can be spent around a pro shop. Cellophane wrappers protect merchandise and routine dusting takes care of the rest of the job. You want customers encouraged to get the

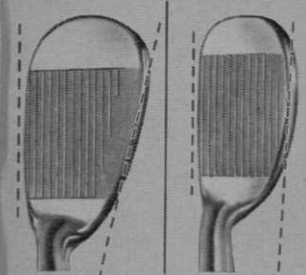
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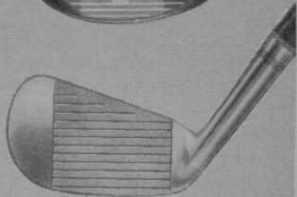
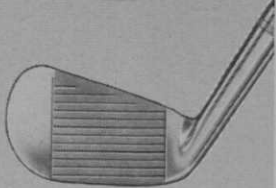
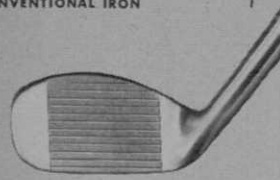
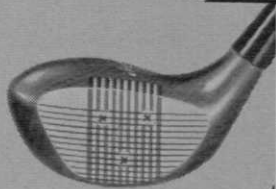
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merchandise in their hands for inspection. Then the customers sell themselves.

Distribution of Area

If there is enough space available there should be a main sales room for the display and sale of merchandise. There also should be space where a potential customer could swing a club, and where customers could be fitted for shoes and apparel.

The pro's office space, storage of merchandise, bag and cart storage, club cleaning and repair facilities, and in some cases, caddy supervision, also require thoughtful arrangement of space and, usually, more space than the architect provides.

There is a lot of room for improvement in club storage at most clubs. In the first place, there could be better rack construction, preferably with rounded front support (possibly piping) to keep from injuring bags.

The floors of the pro shop are very important. A rug gives the shop an air of luxury and brightness and adds to the homey look that most pro shops should have. The pro shop that is best for the members and the pros sells without any air of sales pressure but because it has the charm of a place that exists only to add to the player's enjoyment of the club.

The rug will need to be vacuum-cleaned or swept perhaps just often enough to have the assistants inclined to be careless, but you'll notice that a clean rug is a rather accurate indication of the way the shop staff is on the job in all other details.

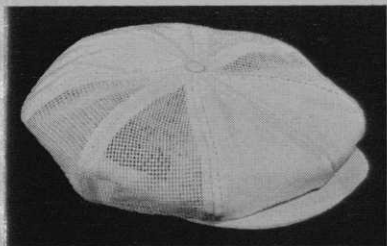
Like most other pros, my ideas of the ideal shop for my members are mostly a dream for—and again, like most other

pros, my shop at Burning Tree is limited in space and in making the best of its possibilities I'm stopped short of what I'd like to have for my members. But each year I try to make some change and improvement to give it a freshened look and subtly get across to the members I'm always wondering what I can do to make the place better for them.

Midwest Shade Tree Conference to Be Held in Chicago

The sixth annual meeting of the Midwestern Chapter of the National Shade Tree Conference will be held Feb. 14-16, 1951, at the LaSalle Hotel, Chicago, Ill. More than 300 persons interested in the maintenance and preservation of trees and shrubs are expected to attend the meeting which opens at 9:00 a.m. Wednesday, Feb. 14.

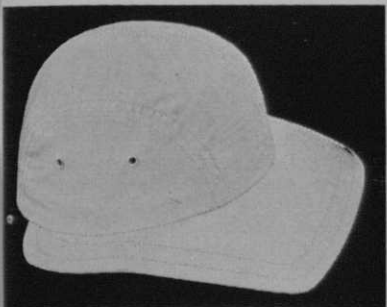
Included among the papers to be presented on the conference educational program will be the following: "Mosquito and Fly Control with Chemicals," by Thomas J. Lynch, Arborist, 526 Greenbay Road, Winnetka, Ill.; "Turf Management in Tree Areas," by William H. Daniel, Dept. of Agronomy, Purdue Univ., LaFayette, Ind.; "Dutch Elm Disease and Control Measures," by Roger U. Swingle, Div. of Forest Pathology, USDA, Columbus, Ohio; "Liquid Feeding of Trees," by S. W. Parmenter, Arborist, Kent, Ohio; and "Scale Insects and Control Methods," by J. E. Bus-sart, Entomologist, Velsicol Corp., 330 E. Grand Ave., Chicago, Ill.



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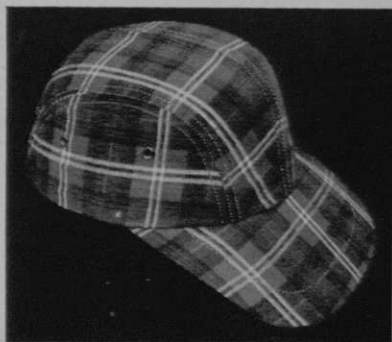
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Notes from Western GA

Jerome P. Bowes, Jr., Chicago insurance executive, re-elected president of Western Golf Association, and with good reason . . . During Bowes' first year at helm, WGA continued increases started by ex-Presidents Jim Garard and Maynard G. "Scotty" Fessenden . . . Bag-tag sales for Evans Scholars fund upped 2,000 to give WGA more than 8,000 individual members during 1950 . . . Increases also recorded in total member clubs, assets and income to Evans Scholars Foundation . . . Best of all, 86 Evans Scholars now in college compared with 58 a year ago.

Aelred D. Geis, former Tam O'Shanter caddie, now in his junior year at Michigan State College, again leads Evans Scholars for Fall grading period with straight A's . . . Caddie-scholars now attend 24 schools, from Stanford and Washington on the West to Massachusetts Institute of Technology on the East . . . Biggest enrollment is at Northwestern University, where 39 are in attendance.

Avoiding a heavy Chicago concentration of officers, Western Golf Association elected Lewis F. Rodgers of Dallas as a vice-president and named Hi Lewis, Kansas City golf leader, as secretary during recent Annual Meeting . . . New directors include: Robert W. Goldwater of Phoenix, Paul H. Hyde of Buffalo, Leon Granz of Northwestern University, Edward E. Lowery of San Francisco, George C. Reeves of Chicago, Richard L. Snideman of Chicago, Gardner H. Stern of Chicago.

Only the date remains to be settled for the 48th Western Open Championship to be sponsored by the Quad-City "200" Golf Association . . . The WGA Open will be held either July 12 to 15 or July 19 to 22 at the Davenport, Ia., Country Club . . . More than 200 golfer-citizens of Davenport, Moline, East Moline, and Rock Island have guaranteed \$100 each by way of underwriting the Western.

SUGGESTIONS FOR MAINTENANCE

(Continued from page 27)

Among other things, excessive acidity has a tendency to restrict root growth as mentioned above.

A little hydrated lime often performs miracles during bad brown patch weather, and when a green scum of algae appears during wet spells. Benefits occur irrespective of soil reaction. The usual rate of application is 2 to 5 pounds per 1,000 square feet. Since hydrate is somewhat caustic, it is unwise to apply much more than 5 pounds per 1,000 square feet. Ordinarily 5 pounds is enough, but some oldtimers have used 10 pounds without serious discoloration. They apply the lime in late

afternoon and do not water until the following morning. Anybody using more than 5 pounds for the first time should start on a small area and wait one or two days before treating all the greens.

Sound Fertilizer Program

The dry clippings produced during a season on a green at Brynwood, which received ample phosphoric acid and potash together with $1\frac{1}{4}$ pounds of nitrogen per 1,000 square feet per month, was about 100 pounds per 1,000 square feet. The clippings contained 4.82 pounds of nitrogen, 1.73 pounds of phosphoric acid, and 3.79 pounds of potash. A 100-pound bag of 5-2-4 fertilizer contains an equivalent amount of plant food. This analysis is quite different from the 4-12-4, 5-10-5, etc., commonly used. They contain 5 to 6 times more phosphoric acid than the grass uses. A 1-1-1, or a 2-1-2 ratio would more nearly represent the plant nutrients removed by the grass.

Based on these figures, any sound fertilizer program must furnish during the season from 2 to 3 pounds phosphoric acid, 4 to 6 pounds potash per 1,000 square feet, along with enough nitrogen to keep the grass in active growth so it will resist clover and produce a turf which will help hold the ball. It takes 10 pounds of 20 per cent grade superphosphate to furnish 2 pounds of phosphoric acid, but where Milorganite is used six times a season at 20 pounds per month, it supplies 7 pounds total phosphoric acid, or four times what the grass removes. Some of the other natural organics furnish nearly as much phosphoric acid. The 6 pounds of potash is equivalent to 10 pounds of 60 per cent grade muriate of potash. A yearly application of 10 pounds superphosphate (20 per cent grade) and 10 pounds muriate of potash (60 per cent grade) provide enough of these elements. The phosphate and potash can be applied half in the spring and half in the fall, or they can be applied monthly at rates to furnish one-half pound phosphoric acid and one pound potash each time. Spring and fall are equally effective, and the easier method. Then feeding becomes a matter of nitrogen. Bent greens should get from 1 to $1\frac{1}{2}$ pounds of actual nitrogen per 1,000 square feet per month.

Stopping Iron Chlorosis

Iron chlorosis, or yellowing of the grass especially when the soil is too wet, seems to be on the increase. An excessive quantity of phosphate in the soil aggravates the condition. Lime in excess has the same effect. Samples from some greens tested in our laboratory have as much as 4,000 pounds of available phosphorus per acre, where 200 to 300 pounds is deemed ample. These greens are becoming low grade phosphate mines.

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Prompt spraying with a little iron sulphate stops iron chlorosis. When chlorosis is severe, loss of grass is likely. Then the spots look like scald. Not more than half a pound of ferrous sulphate, commonly called "Copperas," should be used on the average green with not more than 20 to 50 gallons of water. Best results occur when the iron is absorbed directly into the leaves. Success depends upon spraying immediately when the yellow color appears with a minimum quantity of water. Do not water immediately afterwards. The low rate for copperas is necessary to avoid scorching the grass. In aggravated cases, repeat spraying may be necessary.

Crab grass seems to be more prevalent on greens than before the war—in other words, since Chlordane replaced lead arsenate for worm control. The phenyl mercury acetates have given good control of crab grass, especially of the narrow leaf kind. It is less effective on the large variety. Pre-emergence sprays seem to be in most favor with the phenyl mercury preparations. Little or no lead arsenate is being used now, and may be one reason for the greater amount of crab grass. It would be well to try lead arsenate this spring just before the time crab grass normally germinates in the locality. From 5 to 10 pounds should be used per 1,000 square feet. Some oldtimers still swear by this method of controlling crab grass. It is fairly cheap for weed control, and the single application is an added advantage in these days of labor shortage.

Bent greens should be cut close. High

cutting develops a matted condition and does not necessarily strengthen the grass. Only the green part of the plant is useful, brown portions cannot manufacture food and are a potential liability. A height of $\frac{1}{4}$ to $\frac{5}{16}$ inch is about right, because most of the better clubs cut at $\frac{1}{4}$ inch or less. It is wise to let the grass get well started in the spring before beginning to mow. This enables the leaves to make the additional food which the plant used to initiate growth. Frequent cutting is important to prevent mat formation. An undesirable mat is bound to develop from mowing two or three times a week, even if the mower is set to cut at $\frac{1}{4}$ inch or less. Many clubs skip mowing one day a week.

Some brushing on a regular schedule is desirable. It helps prevent the development of mat. Most mowers are equipped with brushes, or provision is made for attaching them. The use of a solid scalping roller in front of the reel is another way to encourage mat formation. They should be discarded.

Most courses use power greens mowers, although a few have gone back to hand mowing. Others are using hand mowers on low-lying greens that give trouble in hot weather. On many courses power greens mowers are operated at excessive speeds. This happened on fairways. Fast operating speeds tend to bruise the grass if the leaves are the least bit tender. Abrupt turning on the edge of the green also bruises the grass and soon develops bare ground. The apron should be of sufficient

ANNUAL TURF CONFERENCES

Jan. 11, 12—Annual Conference, Mid-Atlantic Association of Greenkeepers, Lord Baltimore Hotel, Baltimore, Md.

Jan. 22-26—20th Annual Rutgers One Week Turf Course, Rutgers Univ., New Brunswick, N. J.

JAN. 29-FEB. 2—22nd NATIONAL TURF CONFERENCE AND SHOW, SHERMAN HOTEL, CHICAGO, ILL.

Feb. 12-14—Texas Turf Conference, Texas Turf Association, College Station.

Feb. 26-Mar. 1—20th Annual Turf Conference, Pennsylvania State College, State College, Pa.

Mar. 5-8—Annual Turf Conference, Midwest Regional Turf Foundation, Purdue Univ., Lafayette, Ind.

Mar. 6, 7—Fourth Annual Turf Conference, Cornell University, Ithaca, N. Y.

Mar. 7, 8—Fourth Annual Turf Conference, State College of Washington, Pullman.

Mar. 8, 9—Annual Turf Conference (Concluding 10-Weeks Winter School), Univ. of Mass., Amherst.

Mar. 12-14—17th Annual Turf Conference, Iowa Greenkeepers Association, Iowa State College, Ames.

Mar. 7-9—Annual Turf Conference and Short Course, Minnesota Greenkeepers Association.

May 10-11—Southern Turf Conference, Tifton, Ga.

Oct. 24-26—Central Plains Turf Conference, Kansas State College.

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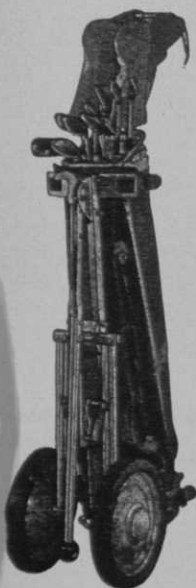
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Club Position

width so the operator can swing around in a wide circle with the power clutch engaged. Otherwise the drive drum will bruise the grass when the clutch is engaged. Wilting grass should never be mowed with a power mower. The turf should be watered lightly first, and mowing delayed until the leaves recover from wilt. Some clubs mow in late afternoon during spells of hot, humid weather. They wait until there is no danger of wilt after cutting.

(To be concluded next month)

Take Equipment and Supply Deliveries Now or ?

Course equipment and supply dealers say present and prospective conditions emphasize the necessity of buying and taking deliveries on orders now. Ordering of machinery has been considerably heavier than usual at this time of the year but such supplies as chemicals, flags, poles, ball washers, cups, etc., still are about as usual for the period.

Dealers say clubs have become so dependent on dealers for immediate deliveries the clubs delay buying until the last minute. Under manufacturing and shipping conditions that may prevail in spring the slow-acting clubs may not get what they want when they want it.

Green Section Published A Classic; "Turf Management"

Turf Management, by H. Burton Musser. Published by McGraw-Hill Book Co., Inc., New York City, for USGA. 362 pages. Price \$6.

This comprehensive and practical manual of golf course turf work is not only an on-the-job working guide book and reference volume of great value for those responsible for golf course and other large turf area maintenance but is a landmark in scientific fine turf development.

The book brings together the tested and approved findings of the USGA Green Section, the nation's leading greenkeeping superintendents, the experts of agriculture experiment stations and of course material and equipment companies, and golf course architects. It is a project the USGA Green Section began two years ago with Fielding Wallace as USGA president, James D. Standish as USGA Green Section chairman and Fred V. Grau as Green Section Director. The editorial board consisted of Grau, Marshall E. Farnham, supt., Philadelphia (Pa.) CC and then pres., NGSA; O. J. Noer, agronomist of the Milwaukee Sewerage Commission; and Herb Graffis, editor, GOLFDOM.

Burt Musser, professor of agronomy, School of Agriculture, Pennsylvania State College, took his sabbatical year's leave to

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