



DO YOU SLICE WITH
YOUR DRIVER?



DO YOU OVERSHOOT
WITH YOUR NO 5 IRON?



DO YOU HOOK WITH
YOUR NO 4 WOOD?

IF YOU HAVE *ANY* "BAD SHOT" CLUB
IN YOUR BAG . . . TRY PLAYING

Bristol
THE HORTON BRISTOL MFG. CO.
BRISTOL, CONNECTICUT

Red Beam

... The **ONLY** Golf Club Set That's
Precision-Matched And Charted

A club that's out-of-match with the rest of your set can spoil a shot. Each time you play it, it breaks the timing of your swing, generally with disastrous results.

If you have such a "hoodoo" "out-of-match" club in your bag, a club you're afraid to use, you'll welcome this new "RED BEAM" set by BRISTOL.

**Introduces A New Standard Of
Golf Club Matching**

With measuring instruments of minute exactness, each wood and iron in BRISTOL'S new "RED BEAM" Set is *precision-matched* with every other club in the set. Matched in not just one or two ways. But matched with new precision in *all four* important measurements of *weight, balance, loft and length.*

You'll be enthusiastic about the way this advanced-standard of *minute* set matching can help improve your play.

**Exact Specifications Of
Each Club Charted**

A graphic chart (BRISTOL copyright) comes with every "RED BEAM" Set. This shows each club's exact specifications, its super-matching in all respects with all other clubs in its particular set. This chart provides a visual and positive guarantee that every club in your set is matched and balanced "right on the beam." BRISTOL "RED BEAM" Sets are sold only in complete sets and through Pro Shops exclusively. The Horton Bristol Manufacturing Company, Bristol, Conn. ORIGINATORS OF THE STEEL GOLF SHAFT.

ners, or who were members of the Ryder Cup team.

Ryder Cup matches in the U. S. this year are uncertain. Neither British nor Americans want date of the matches to interfere with major money tournaments. Financial difficulties also stand in the way of the British sending a team to the U. S. The PGA meeting discussed a suggestion for tournament players contributing services to exhibition matches to help finance U. S. team expenses. Sam Snead and "Skip" Alexander were appointed co-captains of the Ryder Cup team.

A resolution increased PGA group life insurance coverage from \$500 to \$1000 per member, financing the increase from PGA general fund at an additional outlay of approximately \$10,000.

A resolution proposing alterations of voting from present basis of 2 votes at each general meeting of the PGA was defeated.

The meeting voted to continue present basis of PGA championship play at two days of medal play at 18 holes each day, one day of match play with two 18 hole matches that day, and the remaining three days at 36 holes of match play each day.

Other resolutions concerning advertising and merchandising details involving tournament stars were defeated after full discussion.

PGA membership requirements were stiffened by resolution calling for verification by former employers verifying application data and supplying character references.

The PGA decided to stage a PGA Relief Fund day this year with proceeds of sweepstakes at clubs employing PGA members to be used for indigent pros.

The meeting also discussed further PGA financial and personnel collaboration in the National Caddy championship.

Considerable attention was given to fitting PGA operation and resources to a war basis program. Detailed plans are to be prepared by a committee headed by Joe Devany.

A proposed hospitalization plan to cost approximately \$20 per member per year was discussed.

Mention was made of the possibility of the PGA giving an award to the Golf Rookie of the Year.

Hudson Heads Advisors

Robert A. Hudson was elected chairman of the Advisory committee which, with manufacturers' officials, held several sessions with PGA officials and delegates during the Chicago meeting. Hudson succeeded S. C. Allyn of Dayton, O. Thirteen members of the Advisory committee were at Chicago.

The meeting concluded with a teaching and educational program highlighted by the teaching demonstration by Ernest Jones, famed advocate of the swing-the-club system. Jones' talk and demonstration was followed by a lively question-and-answer session in which Jones gave a highly satisfactory, helpful and interesting presentation of details of his method of instruction.

O. J. Noer, speaking on course maintenance practices and illustrating his talk with slides; George S. May, Ewing Stumm and Earl B. Fox, talking on improving pro business operations; Ken Murray, Canadian PGA pres., speaking on pro and amateur golf in Canada; Bob Husted, speaking of motion pictures and television in pro work; and Herb Graffis telling of National Golf Foundation work and its coordination with PGA activities and aspirations; also were on the concluding day's program.

Current Officers Nominated to Head USGA in 1951

The current officers and executive committees of the USGA have been nominated for re-election at the Association's 57th annual meeting, Saturday, January 27, at the Princeton Club, New York City, according to the report of the nominating committee headed by Charles W. Littlefield, chairman.

James D. Standish, Jr., Detroit, Mich., who became president of the USGA last January heads the slate of officers nominated to carry on. Other officers include Isaac B. Grainger, Montclair, N. J., and Totten P. Heffelfinger, Minneapolis, Minn., vice-presidents; Richard S. Tufts, Pinehurst, N. C., secretary; John D. Ames, Chicago, Ill., treasurer; and Fraser M. Horn, Southampton, N. Y., general counsel.

The executive committee includes in addition to the officers named: J. Frederic Byers, Jr., Allegheny CC, Sewickley, Pa.; Fred L. Dold, Wichita CC, Wichita, Kans.; T. R. Garlington, Atlanta Athletic Club, Atlanta, Ga.; Charles B. Grace, Gulp Mills GC, Bridgeport, Pa.; Lewis A. Lapham, San Francisco, (Calif.) GC; Charles L. Peirson, The Country Club, Brookline, Mass.; Corydon Wagner, Tacoma (Wash.) C&GC; and James W. Walker, Meadow Brook Club, Westbury, N. Y.

The following have been named to the 1952 nominating committee: Fielding Wallace, chairman, Augusta, (Ga.) National GC; Ben Lee Boynton, Brook Hollow GC, Dallas, Texas; F. B. Dickinson, Wakonda CC, Des Moines, Iowa; John B. Morse, Del Monte G&CC, Pebble Beach, Calif.; and A. Herman Stump, Green Spring Valley Hunt Club, Garrison, Md.



Fairway at Country Club of Cleveland after first spray with sodium arsenite and just before second treatment. Used $1\frac{1}{4}$ to $1\frac{3}{4}$ lbs. per acre and about ten gallons of water.

Clover, Chickweed Eliminated in Turf Improvement Program

The fairways at Country Club of Cleveland contained considerable clover, due principally to the use of too little fertilizer in the past. The clover was aggravated by fairway watering. There was some chickweed also, both the mouse-ear and common types.

Frank Dunlap devised a program of fairway turf improvement and obtained the consent of the club directors. The plan included the use of more fertilizer and of sodium arsenite as a spray to speed the elimination of clover and chickweed. Seeding was to be confined to bare spots and areas where grass cover was sparse. There was very little poa annua except on several approaches.

It was decided to spray the fairways three or four times at very light rates. Chipman's liquid sodium arsenite was used first at $1\frac{1}{4}$ pounds per acre, and after that at $1\frac{3}{4}$ pounds. (Arsenic acid could have been used instead, and at the same approximate rate.) A low gallonage sprayer made by Engine Parts Manufacturing Company of Cleveland was used. This machine gave good coverage of the foliage with 10 gallons of water per acre. The interval between spraying was seven to ten days, depending upon clover recovery and the for-

mation of new leaves. Spraying started in August. All fairways were to be aerified before being fertilized. Several where the turf was uniformly thin were to be cross-spiked, after aerifying and fertilizing, and then seeded lightly with Colonial bent grass. On most of the fairways bad clover infestation was in local spots. Dunlap proposed spot seeding of the areas early next spring while the ground is honeycombed from frost, and before rolling.

Discoloration was most noticeable after the first spraying. Browning of the grass occurred in localized dry spots, but was not bad elsewhere. Subsequent spraying, even at the higher rate produced very slight discoloration only.

Clover leaves are succulent and burn readily, so heavy rates of sodium arsenite are not needed. Repeated defoliation, three or four times, is the secret of clover elimination. Defoliating the plant each time new leaves form weakens the main stems so they will be killed by frost action during the winter and early spring. The first spraying, no matter what the rate, seldom defoliates the plant completely. The top leaves protect the ones underneath. The lower leaves disappear after the second spray and then all the leaves are scorched each time sodium arsenite is used.

"I use 'TERSAN' to prevent brown patch ... it never shocks turf"

says William Glover, Greenkeeper at FAIRFAX GOLF CLUB, Fairfax, Va.

A public course such as Fairfax must keep its greens in top shape to attract players, and to sell itself every day. "That's why I use Du Pont 'Tersan' fungicide," says Mr. Glover. "It prevents brown patch safely."

This picture story is another in a series of "experience reports" from well-known golf courses, coast to coast.



"I've used 'Tersan' since it was first produced," says Mr. Glover, who helped test this product before it was marketed.



For sure prevention of brown patch, Mr. Glover sprays with "Tersan" every ten days. "It's very easy to handle," says Mr. Glover. "Needs no wetting in." Picture shows ninth green being sprayed with "Tersan."



"Tersan" keeps greens really green to attract steady business for this beautiful course. This view shows the approach to Number 4 green at the Fairfax Club.

"Tersan" 75—New, improved formulation and package:

- Higher concentration of active ingredient (75% instead of 50%) reduces bulk to be handled . . . makes transporting easier.
- New handy, 3-pound packages eliminate measuring from bulk . . . easier to handle, cleaner, more accurate. Two packages cover 9 average greens.
- "Tersan" 75 stays in suspension better to assure even application.
- New green color blends with grass.

For exceptional control of dollar spot, use Du Pont F-531 fungicide. This outstanding Du Pont cadmium fungicide controls copper spot and pink patch as well. Special "Semesan" is also available for those who prefer a mercurial fungicide.

"Tersan" and "Semesan" are registered trademarks of E. I. du Pont de Nemours & Co. (Inc.)

Order "Tersan" 75 from your golf supply house today, and be prepared to head off brown patch before it starts.

DU PONT

REG. U.S. PAT. OFF.

Turf Fungicides



Better Things for Better Living . . . through Chemistry

Make Most of Utility Features in Planning Pro Shop

By HUGH GORDON

Unprejudiced observers tell me that I have one of the finest pro shops in the Middle Atlantic area. Roanoke Country Club has a membership of over eight hundred. It has the only private golf course in the city, and it is a busy place.

This last season the Club put on a \$100,000 building program to keep up with the needs of its members. A new golf shop was one of the projects that got lost in the increase of actual costs beyond those estimated. A knotty pine grill room, a bright new steel kitchen, a maze of refrigerating units, a tricky ice cube machine, and expanded quarters for the manager flourished under gleaming new copper roofs. The old rat infested store room opening into the golf repair shop, a new door cut into the golf sales room, and three hundred dollars for lumber and paint were squeezed out of that one hundred thousand and allocated for golf needs.

When pros write proudly of their new twenty five thousand dollar golf shops, I boast with equal pride of my new (re-modelled) one constructed without benefit of Santa Claus. In planning a pro shop, a knowledge of the utility value of its features is better than grandiose dreams of fancy gadgets approved by Board members or architects who have never had to sell merchandise, regulate caddies, take in greens fees, run tournaments, and be a target for gripes all at one time through a fog of fatigue and sweat.

My shop works. The arrangements of golf goods catches the eye of prospective buyer, and are so convenient that the shop boys can give good service even though their total consciousness is absorbed in planning their evening's entertainment. And my shop is neat and clean, since paint is still a great cosmetic.

My pro shop is eighteen feet by twenty four. I had the door leading into it from the grill and the locker room moved to be exactly opposite the one facing the first tee. Registration of guests and supplies for sale are to the left as the golfer enters, the score board is to the right, racks for the three hundred or more handicap cards are on the far wall, and the door to the club storage and repair shop is to the far right. The player can dash through to the first tee without buying a thing, but since the

exit is so clear in front of him, he is more apt to pause and wonder if he is missing something. That technique is called taking-the - bait - out - of - the - pocket - and-looking - it - over - and - then - putting - it - back - in - the - pocket - again. It is a good sales approach. And remember, no one can easily get to the first tee without going through the run way of my shop.

I salvaged the old bar counter from the grill and helped a carpenter fit it with a right angle bend so that I have a good show space to display clubs, and a protected area in which the player can try them out without danger to the golfer who is buying balls or registering his guests, or rushing to his fore some at the first tee. The salvaging of this old counter may have occasioned a few cracks about going from high balls to golf balls or from Lipton's to Spalding's, but the counter lends itself as readily to the sale of one kind of ball or tee as another. And, incidentally, the bit of counter I could not use was begged for by a member who had it made into a private bar, painted it a stinging red, and regards it as the prize piece of furniture in his fine home. I have never asked how his wife feels about it.

A show case for small sundries is further along the left side of the shop, and in this far corner near the handicap card racks I keep a couple of chairs for the golfer who likes to sit down and talk over his game a while, rather than lean on the counter with the rest of the gang.

My club storage racks and repair shop is eighteen feet by thirty six. It has a second door to the outside through which the caddies can return clubs when this is feasible. My racks are made of wood, re-modeled from the old ones. They vary in size to accomodate variations in size and shape of all the new golf bags.

My shop walls and floor always look bright and fresh. I know, because I repaint them myself as they need it. Don't think for a minute that I am trying to say "A poor thing, but mine own." I have one of the finest pro shops to be found anywhere. Ask the golf sales men when they come your way, or ask my Club members. Ask anyone who has seen it, but don't ask Santa Claus. Our Club was too busy building a new roof to get a chimney ready for him.



1951 TOURNAMENT SCHEDULE

JANUARY

5-8—Los Angeles Open, Riviera C. C., Pacific Palisades, Calif.

8-13—P. G. A. Senior's Championship, P.G.A. National G. C., Dunedin, Florida.

11-14—Bing Crosby International Pro-Am. Invitational, Cypress Point C. C., Monterey Peninsula CC, Pebble Beach GC, Del Monte, Calif.

19-22—Lakewood Park Open, Lakewood CC, Long Beach, Calif.

25-28—Phoenix Open, Phoenix CC, Phoenix, Arizona.

FEBRUARY

1-4—Tucson Open, El Rio G & CC, Tucson, Arizona.

8-11—Texas Open, Brackenridge Park GC, San Antonio, Texas.

12-16—Annual Mixed Foursomes Tournament, Everglades Club, Palm Beach.

15-18—Rio Grande Valley Open, Harlingen, Municipal GC, Harlingen, Texas.

19-24—National Championship of Golf Club Champions, Ponce de Leon GC, St. Augustine, Fla.

20-25—International Mixed Two-Ball Tournament, Dubsdread CC, Orlando, Fla.

22-25—Houston Open, (Club to be announced), Houston, Texas.

MARCH

1-4—St. Petersburg Open, Pasadena CC, (Club tentative), St. Petersburg, Florida.

5-9—South Florida Amateur, Palm Beach GC.

6—La Gorce Pro-Amateur, La Gorce CC, Miami Beach, Florida.

8-11—Miami Beach Open, Normandy Isle GC, Miami Beach, Florida.

12-14—Seminole Pro-Amateur, Seminole CC, Palm Beach, Florida.

12-18—Seniors' U. S. Match Play Championship, Kenilworth Lodge CC, Sebring, Fla.

16-19—Jacksonville Open, Hyde Park CC, (Club tentative), Jacksonville, Florida.

17-17—Annual Amateur Four-Ball Inv., Miami (Fla.) CC.

21—Aiken Pro-Amateur, Palmetto GC, Aiken, S. C.

23-26—Greater Greensboro Open, (Club to be announced), Greensboro, N. C.

March 29-April 1—Wilmington Azalea Open, Cape Fear CC, Wilmington, N. C.

APRIL

5-8—Masters, Augusta National GC, Augusta, Georgia.

16-21—51st North and South Amateur, Pinehurst, N. C.

MAY

11-12—Walker Cup Matches, Birkdale GC, Birkdale, Southport, England.

21—British Amateur Championship, R. Porthcawl.

JUNE

14-16—USGA National Open, Oakland Hills CC, Birmingham, Mich.

18-24—Western Amateur Championship, South Bend, (Ind.) CC.

24-30—NCAA Championship, Ohio State University, Columbus.

June 27-July 3—National PGA Championship, Oakmont CC, Pittsburgh, Pa.

JULY

2—British Open Championship, R. Portrush.

9-14—USGA Amateur Public Links.

12-13—Western Seniors Championship, Edgewater GC, Chicago.

25-28—USGA Junior Amateur, University of Illinois GC, Champaign, Ill.

30-Aug. 1—National Left-handers Championship, Tippecanoe CC, Youngstown, O.

31-Aug. 3—WGA Junior Championship, University of Iowa, Iowa City.

AUGUST

13-18—USJCC National Junior Amateur, Hope Valley CC, Durham, N. C.

20-25—USGA Women's Championship, Town & CC, St. Paul, Minn.

SEPTEMBER

10-15—USGA National Amateur, Saucon Valley CC, Bethlehem, Pa.

Women's Tournament Schedule

JANUARY

5-7—Ponte Vedra Beach Women's Open.

18-21—Fifth Tampa Women's Open, Palma Ceia CC, Tampa.

23-28—Helen Lee Doherty Challenge Cup Tournament, Miami (Fla.) CC.

FEBRUARY

1-4—Sixth Women's International Four-Ball Tournament, Orange Brook CC, Hollywood.

27-Mar. 3—Twenty-second Women's Championship, Ormond Beach, GC.

MARCH

5-10—Twenty-third Women's Championship, St. Augustine (Fla.) Links.

15-18—Women's Titleholders Open, Augusta (Ga.) GC.

APRIL

23-28—North & South Women's Championship, Pinehurst, N. C.

JUNE

18—WWGA Open, Whitmarsh Valley CC, Philadelphia, Pa.

JULY

30—WWGA Amateur, Plum Hollow GC, Detroit.

13-17—USGA Girls' Junior.

20-25—USGA Women's Championship, Town & CC, St. Paul, Minn.

27—WWGA Junior Girls' Championship, Chicago dist. Club to be announced later.



It's a matter of pride!

I'm mighty proud of the position held by the Hagen line today. Proud that so many of you feature my clubs and the "Haig" ball in your shops. And proud that the line is spoken of everywhere as "The *Ultra* in golf equipment." Now, we go into a new golf year with a new and even better line. And I'm confident you'll sell my equipment with ever increasing pride—and in ever increasing quantities. You're sure to do fine with the Hagen Line!

Yours for PRO-ONLY sales

Walter Hagen

22nd National Turf Conference To Be Greenkeeper's Biggest

The 22nd National Turf Conference and Show opens January 29th at the Sherman Hotel, Chicago, Ill., and runs through February 2. Room reservations and exhibit space already contracted for indicate the '51 show will surpass all previous events, a fitting testimonial to the progress of the National Greenkeeping Superintendents Assn. which celebrates its 25th Anniversary this year.

Mal McLaren and his able committee have arranged an educational program that merits the full consideration of every progressive superintendent. Club officials aware of course maintenance needs, especially when the country is going into war production, have an obligation in seeing that their respective superintendents attend this annual conference and avail themselves of the essential information to be presented. (See educational program on next page.)

Exhibitors with the latest in equipment and supplies and many with new and improved products have been listed below for your pre-conference review.

The American Agricultural Chem. Co., Agrico Country Club Fertilizers & Agrinrite; **American Liquid Fertilizer Co. & Rokeby Chemical Company**, Liqua-Vita 6-9-7 and Liqua-Vita Turf Special (12-8-4) by Amer. Liq. and Blitz 48 Chlordane and Blitz 10 Crab Grass Killer by Rokeby; **Americana Corporation**, Encyclopedia Americana Book of Knowledge; **Armour Fertilizer Works**, Specialty Plant Foods; **Atlas Lawn Equipment Company**, Atlas Lawn Mower Lapping Machine; **Augustine Ascending Elm Research Association**, Transparencies and Printed Matter; **John Bean Mfg. Company**, Spraying Equipment; **Clinton Kent Bradley Enterprises**, Golf course & grounds maintenance supplies, Hardware, Lawnmowers & Machinery replacement-repair parts; **Buckner Mfg. Co.**, Golf course irrigation equipment; **Paul Burdett**, Seed, Fertilizer and Golf Course supplies; **Carlton Products Corporation**, Carlton Plastic Pipe and fittings; **Chicago Fence & Equipment Co.**, Various pieces of Equipment.

W. A. Cleary Corporation, PMAS, for Crabgrass Control & Weed Killing; **Eli Colby Company**, Peat Products (Peat Moss and Peat Humus); **George A. Davis, Inc.**, Golf Course Equipment and Supplies; **E. I. du Pont de Nemours & Co., Inc.**, Turf Fungicides and Seed Disinfectants; **Ezee Flow Corporation**, Fertilizer Spreading Equipment; **The Fate-Root-Heath Co.**, Lawn Mower Sharpening Equipment; **Ferguson & Sons**, Ferguson Night Crawler Turf Aeri-

fier & Sectional Lawn Rollers; **Frazer Illinois Compost Corp.**

The Graham Mfg. Co., Inc., Lawn Mower Grinders; **H. & E. Sod Nursery**, Creeping Bent, Blue Grass and Sod Cutter; **The Hardie Manufacturing Co.**, Hardie Sprayers; **Ideal Power Lawn Mower Co.**, Lawn Mowing and allied equipment; **Jacobsen Manufacturing Company**, (Worthington Mower Co.), Mowing Equipment, Tractor, etc.; **Jari Products, Inc.**, Jari Power Scythe, Sickle bar mower and attachments; **Johns-Manville Corp.**, Transite Pipe for Irrigation.

K & N Machine Works, Inc., Ryan Power Sod Cutter; **Kahn Bros. Co.**, Lawnseed, Golf Course Supplies; **O. E. Linck Co., Inc.**, TAT crabgrass formulations; **Mallinckrodt Chemical Workers**, Turf fungicides; **Modern Manufacturing Company**, Modern Lawn Mower Sharpener, Modern Rotary Power Sweeper & Modern Power Edger & Trimmer; **National Mower Company**, Sickle mowers and Lawn Mowers; **L. R. Nelson Mfg. Co., Inc.**, & **Rainbird Sprinkler Corp.**, Golf Course Sprinkling Equipment; **Old Orchard Turf Nurseries**, Bent Grass; **Parker Sweeper Co.**, Lawn sweepers & golf sweepers; **Roseman Mower Corporation**, Roseman gang mowers; **The R. L. Ryerson Company**, Golf Course Equipment and supplies; **Saratoga Laboratories, Inc.**, Trace L; **Milwaukee Sewerage Commission**, Milorganite, Milarsonite; **The Skinner Irrigation Company**, Sprinkling Equipment; **Smith-Blair, Inc.**, Pipe Repair Clamps, Full Circle Repair Clamps, Flexible Couplings, Flex. Tee Couplings, Reducing Couplings.

Smith Equipment & Supply Co., Fertil-Ade Liquid Fertilizer; **Speedy-Sodak Mfg. Co.**, Power-Vac Raklean Leaf Sweeper; **Sterne and Maley Co.**, Swimming Pool Equipment and Chemicals; **Solaire Industries**, Hand and Power Aerating Equipment; **Standard Manufacturing Company**, Cup Cutters, Cups, Ball Washers, Supplies; **Swift & Company**, Vigoro, End-o-Pest; **Toro Manufacturing Corporation**, Grass cutting equipment; **Warren's Turf Nursery**, Sod; **West Point Lawn Products**, F-G Aerifier, G-L Aerifier, Link Mole Drain, Noer Soil Profile Sampler; **Wilson & Company**, Fertilizer.

EDUCATIONAL EXHIBITS

USGA, Green Section,
Golfdom,
Midwest Regional Turf Foundation,
Midwest Association of Golf Course Superintendents,
Wisconsin Greenkeepers Association,
Chicago District G.A.