

easy par 5, but should be truly judged a very uncertain 4. The variation of score, not the average score, is the real measure of a hole's difficulty and interest.

Courses which have concentrated their hole lengths in an attempt to jockey par often not only eliminate fine natural holes, but by creating a round on which some one hole length predominates, offer its players a layout best suited to the abilities of one particular class; for instance, a course which hitters will eat up, and shorter and possibly more accurate golfers will play at a disadvantage. Such a course is a poor test of all-around golfing ability, tiring and monotonous.

Length is the principal factor which determines the average number of strokes taken on a hole. Terrain and hazards cause most of the variations in score, thus make a hole of any length hard or easy; but, since well hit shots surmount most obstacles, length plays the principal role in fixing score.

The total length of a course does not alone measure the probable score, the distribution of length is the final determinant. It is obvious that a course consisting of 18, 360 yard holes, measuring 6480 yards, is easier than one having 9, 460 yard holes and 9, 260 yard holes with the same total yardage, but a 9 stroke higher par.

Hence, it is important from both interest and difficulty standpoints that a golf course should contain examples of all practical length holes, that there should be no duplication of length in any instances—unless terrain or hazards make similar length holes definitely dissimilar in play. If an opportunity comes along to create an interesting hole, grab it, and forget the par schedule. Remember the scorer's pencil records the number of strokes taken, but says nothing about the way they were played, or of the fun he had.

The length distribution on any layout can be best studied by listing the holes in order of yardage. This table will bring out duplications which should be adjusted. In preparing the table, actual length of holes should be corrected where slope or ground speed materially affects obtainable distance.

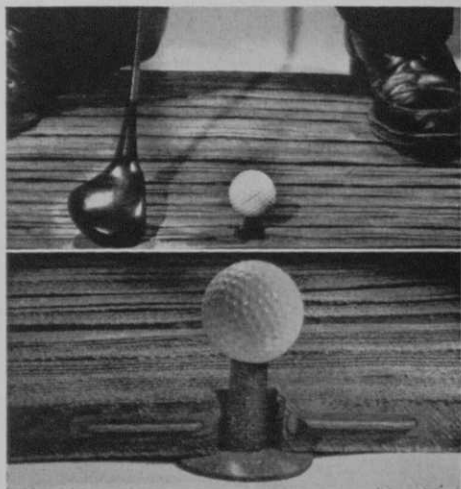
**OREGON CHAMPS DRAW 1500**—Oregon's "champion of champions" tournament bringing together private, public and fee course champions of the state for 18 hole play at Lloyd's course, Portland, drew a gallery of 1500. Seven golf associations cooperated in staging the event. A shot-making demonstration by pros was put on for the gallery. Joe Mozell, operator of Lloyd's course, had colored film made of the tournament which with sound will be available for instruction and entertainment.

April, 1947

## KOSAR MAT TEE

Now — a Practical Tee for  
Driving Range Mats

- Increases range income by speeding up play 25% to 40%
- Easy convenience in teeing adds to player enjoyment
- Saves peg tee waste
- Eliminates unsightly litter of used and broken pegs in front of tees and time required for clean-up.



Tough, long-lasting, high-flexing rubber; quick and easy to replace.

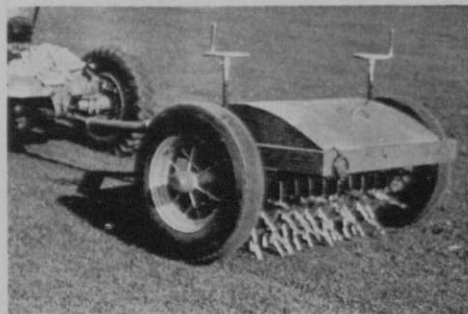
Write for prices and sample tee.

### KOSAR'S GOLF DEVELOPMENT LAB.

634 W. Portage Trail

Cuyahoga Falls, Ohio

### FG Aerifier Now in Production



Greenkeepers who have seen the FG Aerifier demonstrations at many turf meetings will be glad to know that the ingenious aerifying machines now are being delivered by the makers, West Point Lawn Products Co., West Point, Penna.

## Photography Aids Greenkeeper

Continued from page 35

mind comes up with the idea of reconstructing a hole along the lines it occupied decades before. A few photographs in the archives would be worth their weight in uranium in helping to restore the status quo.

### Pictures Supplement Blueprints

Then, too, a more everyday reason exists for picturing conditions prior to major face liftings. Subterranean items such as water mains, valves, drainage lines, and other utilities have a habit of getting buried and forgotten during the creative excitement of Big Changes. These utilities outlined on the face of a suitable photograph (a job much simpler than preparing a mess of blueprints) would eliminate a lot of future random excavating.

The third photographic consideration, that of forecasting the appearance of planned changes, involves a little more than straight photography, or picture snapping. Suppose the powers-that-be demand trees along a given fairway. Okay, give 'em trees ahead of time by snapping pictures of trees approximately the size of the planned ones 5 or 10 years hence. Cut these pictures out and paste them in place on a photograph of the fairway involved. A reasonable amount of regard for proportion and perspective will heighten the illusion of a peep into the future. This paste-up may serve to support or condemn the proposed change. In the latter case, shifting or eliminating a paper tree has it all over doing the same thing to a real one which has had a chance to get a firm grip in the terrain. Sketching the proposed trees in by hand on the fairway photograph will give less realistic, but none the less effective portrayal. The same methods will picture the placement of traps, grassy hol-

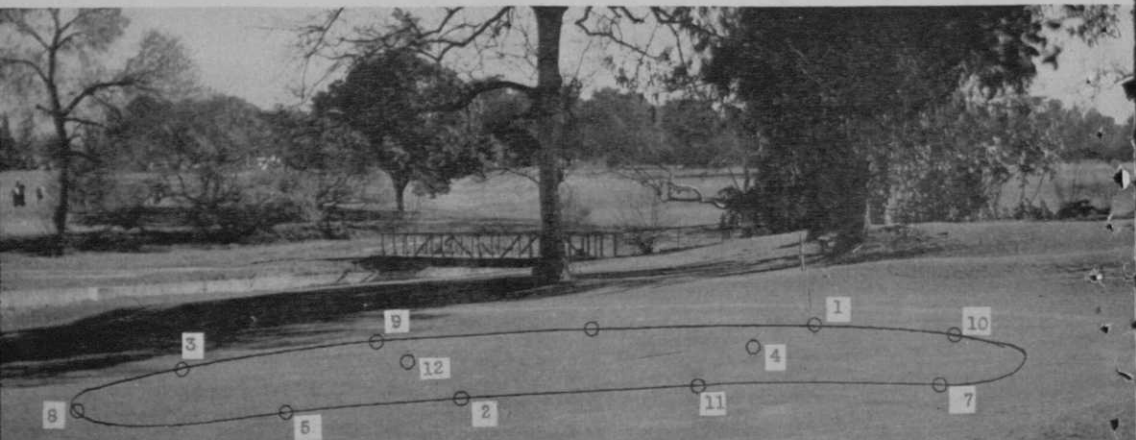


Yes, golf balls can kill an oak tree. This centuries-old live oak is slowly dying from the effects of the battering it has been receiving. Walter E. Langton points to the ball pits which cause the damage. Photography can record the decline of such trees.

lows, and all the other more-or-less transient geographical features which greenkeepers have to add to and subtract from golf courses. Thus pictured, some of the more awful of proposed changes may reveal themselves in their true light before the final damage occurs, thus leading to modification or elimination of the original plan.

(Continued on page 105)

The greenkeeper can lay out a system of hole changes on a photograph as shown here. The system can apply to all greens on the course, or can be modified to suit individual greens.



# Buyers' Page

Check off your Supply & Equipment Needs. Tear out and mail this sheet to *Golfdom, 407 S. Dearborn St., Chicago 5, Ill.* You'll get prices, literature and delivery information direct from the sources of supply.

## Golf Course

Aerifier (for fairways)  
 Architects  
 Arsenate of lead  
 Ball washers  
 Bent grass stolons  
 Brown-patch preventives  
 Compost mixers  
 Compost spreaders  
 Cultivators: f'way  green   
 Drinking fountains  
 Fencing  
 Fertilizers  
 Flags (greens)  Flag poles   
 Flood lights  
 Fungicides  
 Golf Course Const'n Engineers

Harrows—(spring tooth)  
 Hole cutters  
 Hose, 3/4"  1"   
 Hose menders  
 Humus  
 Insecticides  
 Landscape materials  
 Leaf rake (power vacuum)  
 Mole Traps  
 Mowers: putting green   
     whirlwind  tee   
     fairway  rough  hand   
 Mower grinders  
 Peat Moss  
 Pipe, water  
 Playground equipment  
 Pumps (gals. per minute?.....)  
 Putting cups

Scythes (motor driven)  
 Seed: fairway  green   
 Seeders  
 Sod cutter  
 Soilscreeners  Soil shredders   
 Sprayers: power  hand   
 Spikers: greens  fairway   
 Sprinklers: f'way  green   
 Swimming pool architects   
     equipment  filtration   
     purfy. chemicals  paint   
 Tennis court surface material  
 Tractors  
 Tractor tires  
 Tractor wheel spuds  
 Turf Plugger  
 Water systems, fairway  
 Weed burners  
 Weed chemicals

## Pro Shop

Bags: canvas  leather   
 Bag carts, for players  
 Balls  Driving range   
 Ball markers  Painting kit   
 Ball Shag  
 Bandages, adhesive  
 Braces for canvas bags  
 Buffing motors  
 Caddie badges  uniforms

★

Calks, for shoes  
 Caps and hats  
 Clubs: Woods  Irons   
 Club head covers  
 Club repair supplies  
 Dressing for grips  bags   
 Golf gloves  
 Golf Grips (all weather)  
 Golf shoes  
 Golf Practice Device  
 Grip Renovating Tool  
 Handicap racks  cards

Mechanical Golf Ball Retriever  
 Pencils  
 Portable motor tool  
 Practice driving nets  
 Preserver for leather  
 Score cards  
 Sportswear: Shirts   
     Slacks  Rain jackets   
     Windbreakers  Socks   
 Tee mats  Wood tees   
 Tees (rubber) for driving mats  
 Tennis nets  
 Trophies

## Club House

Adding machines  
 Air conditioning equip.  
 Athletes foot preventives  
 Ath. foot prophylactic bath  
 Bath mats  
 Bath slippers  
 Cash registers  
 China  
 Disinfectants  
 Fire protection equipment  
 Floor coverings

★

Furniture  
 Kitchen equipment:  
 Boilers  
 Coffee makers  
 Dish washers  
 Dishwashing compounds  
 Frozen food storage  
 Ice cube machines  
 Ovens  Food warmers   
 Ranges  
 Refrigerators  
 Slicing machines  
 Toasters  
 Vegetable peelers  
 Glassware

Heaters: club house   
     hot water   
 Linens, dining room  
 Lockers  
 Locker-room shoe brush  
 Movies of Golf Subjects  
 Runners for aisles  Rugs   
 Shoe dryer and sterilizer  
 Showers  Shower mixers   
 Shower clogs   
 Silverware  
 Step treads  
 Toilet seat covers (paper)  
 Towels: bath  face   
 Uniforms

Send information to: Name ..... Club Title .....

Club ..... Address .....

Town ..... Zone (.....) State .....

# IMPORTANT NOTICE!

Due to tremendously increased production costs GOLFDOM is forced to increase its annual subscription price to \$2. Well over a year ago, in most cases, the nation's largest magazines and newspapers found it necessary to increase their subscription rates. Now, GOLFDOM is forced to follow suit, effective with this issue.

However, GOLFDOM'S Special Golf Club Subscription Plan makes it possible for every golf club to effect a saving . . . on subscriptions for their officials and key staff members — with an offer of five subscriptions for only \$6. For smaller clubs, three subscriptions are available for \$4.

---

## ENTER SUBSCRIPTIONS FOR OUR CLUB AS SHOWN BELOW.

Remittance enclosed for \$6  - \$4

If club is to be billed check here

1 Name ..... Club title ..... Zone ( )

Address ..... City ..... State .....

2 Name ..... Club title ..... Zone ( )

Address ..... City ..... State .....

3 Name ..... Club title ..... Zone ( )

Address ..... City ..... State .....

4 Name ..... Club title ..... Zone ( )

Address ..... City ..... State .....

5 Name ..... Club title ..... Zone ( )

Address ..... City ..... State .....

---

Ordered by ..... Title .....

Club ..... City ..... State .....

Date ..... 47

Mail To: GOLFDOM, 407 S. Dearborn St., Chicago 5, Ill.

# HENDERSON'S

## GOLF GRASSES

We have special, tried and proven golf mixtures for every purpose — and our complete service to Greenskeepers also includes blending special formulas to your own specifications.

**PETER HENDERSON & CO.**

35 Cortlandt Street

New York 7, N. Y.

## ROBERT TRENT JONES

*Golf Course  
Architect*

20 Vesey Street  
NEW YORK, N. Y.

Continued from page 102

The fourth method employs photography to present an understandable layout of certain routine work. For instance, if the greenkeeper decides to have cup changes made systematically rather than leaving them to the haphazard choice of an indifferent greensman, photographs can help. A picture of a typical green with the routine of cup changes marked thereon and the whole posted where the grounds crew can refer to it readily will put the whole matter upon a documentary basis (see page 102). If photographs can be taken from a suitable elevation so as to allow proposed boundary markers, sprinkler systems, fairway limits, and gallery ropes to be marked thereon, the need for constant on-the-spot supervision by the superintendent will diminish.

Fifthly and finally, photographs offer the greenkeeper a tangible means towards an intangible end; that of elevating himself in the esteem of his employers. Photographs which show progress of work, the need for attention to a specific task, the feasibility of a change in procedure, or evidence of time and labor saved cannot help but prove to the governing body that in the greenkeeper who can present such clearcut evidence they have a very thorough fellow indeed.

Now as to equipment. Scorn not the humble box camera, a device capable of taking a much better picture in the hands

of a beginner than much more elaborate equipment. At least one famous photographer delights in taking prize-winning photographs with a box camera. The family Brownie will serve to take acceptably well all of the types of photographs discussed in this paper. Of course, if the greenkeeper can master a more complicated camera, superior results may justify its purpose. Generally speaking, beware of the miniature, which provides negatives too small for retouching and their prints must all be enlarged.

A 4 x 5 view camera on a sturdy tripod probably represents the ideal in golf course equipment. Simple to operate, it will take a relatively large amount of abuse. Equipped with a lens of good definition and adequate focal length (not less than 6 inches), it will take beautifully clear pictures with a minimum of gadgets.

Retouching negatives, mentioned above, has definite possibilities from the greenkeeper's standpoint. By means of opaque fluid, obtainable at any photo supply store, the operator can brush, pen, or rule in water mains, boundary lines, trees, traps, greens, and other items directly on the negative. The prints from this negative will show the sketched lines or areas as dead white. This is a fine way to make quantity lots of a photograph with a drawing on its face without going to the trouble of sketching on each print. The opaque lines on the negative will wash off under running water.

**THE GROWING OF THE FINEST BENT GRASSES** is our specialty and sole business. We have been at it 20 years.

We furnish you the very best stolons that nature can be persuaded to grow.

They are of fresh, virile stock, less than a year old, and true to strain.

There is no mixture of other bents or grasses, no left-over bents, no weeds,—not even clover.

*Every shipment carries State Inspection certificate.*

C 52, Old Orchard C 19, Congressional C 1, Arlington C 0, Hansey

**Old Orchard Turf Nurseries**

P. O. BOX 350

R. R. BOND, Prop.

Madison 1, Wisconsin

**THE GREENS ARE THE FOUNDATION OF ALL SUCCESSFUL GOLF COURSES**



## ALFRED H. TULL

### Golf Course Architect

420 Lexington Avenue  
NEW YORK 17, N. Y.

## NEW LIFE FOR PUTTING GREENS

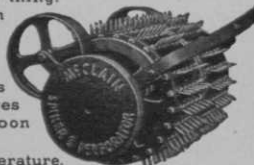
### McCLAIN • SPIKER AND PERFORATOR

AERATION is the thing.

Loosen up that tough soil with this fine turf conditioner. Saves fertilizer and fungicides. Increases grass growth. Revives sluggish greens. Soon pays for itself.

Write for literature.

**McCLAIN BROTHERS COMPANY**  
CANTON, OHIO



# At Last!

## We have them again

Those popular 3" long

### GOLF PENCILS

Illustration Actual Size

Price \$12.50 per thousand.

Can Ship same day.

Write or wire at once how many.

**ORDER**

**EARLY**



We also can give one day service on golf tees. Priced at \$2.75 to \$2.90 per thousand. 3 sizes. F48-1½", F49 & F50-1⅝", F51-1¾".

We can pack one thousand tees in individual boxes including 50 glassine envelopes at 25c per M extra. Celluloid Caddy Buttons—Tournament Badges.

**SANDERS MANUFACTURING COMPANY**  
Dept. GM Nashville, Tenn.

A darkroom, while a handy addition to the photographic tool, is not essential to the successful employment of photography, provided that a local establishment will provide good and prompt developing and printing service. Indeed, in the complete absence of any photographic equipment, the need for photographs for any of the purposes outlined above can be great enough to justify employing a commercial photographer for the occasion. However, the greenkeeper should have clearly in mind just what pictures he wants, and how he wants them taken. He will find it advisable to discuss the whole project with the photographer before the latter gets to the course. Otherwise the photographer may go haywire on the pictorial possibilities of the layout and shoot off his weight in expensive 8 x 10's. Once properly briefed, he will produce valuable suggestions on angles and coverage.

One warning. Photography, a useful servant, has the insidious capacity to become a time- and money-wasting master. When the greenkeeper begins to spend more time on focuses than on fairways, more time on gadgets than on greens, then's the moment to drop the whole business. Don't give the bosses a chance to say, "Okay, Snappy, go peddle your pictures elsewhere!"

**NEW IRON AGE SPRAYERS**—New Iron Age engine-driven golf course sprayers, with 4-gallon, 2-cylinder vertical pumps, are now being produced by the A. B. Farquhar Co., York, Pa. Pressure for thorough penetration of spray material is provided by the 2-cylinder vertical pump, a new addition to the Iron Age line. Semi-enclosed with a 1¾ in. bore and a 1½ in. stroke, the pump delivers 4 gallons per minute at pressures up to 350 lbs. The pump is fitted with hardened non-magnetic displacement tubes for longer cup life. Special stainless steel, combined with an exclusive finishing process, makes the plunger tube finest obtainable. The pump's specially designed drive gear and pinion, completely enclosed and dust-tight, are cut on a precision gear generator to assure perfect meshing of teeth for exceptionally long life. An air-cooled 1¾ h.p. engine is used to drive the pump. Four models of the Golf Course utility Sprayers are now in production at Farquhar. Model 71A, push cart type, and Model 71B, with automobile or tractor hitch, have heavy duty steel tanks, in 50 to 125 gallon sizes, with intake strainer and propeller type agitator as standard equipment.

## • BENT GRASS •

Stolons and Sod. Washington — Cl — and other recommended strains.

**HIRAM F. GODWIN**

22366 Grand River Ave., Detroit 19, Mich.

Spalding's New Pro Card  
For Shop Display

WHICH ONE'S WORRYIN' YOU?



**ST. VITUS STANCE**  
When the knees are not directly in line with the feet, the golfer is in a poor stance. This is a common fault.



**PAR-ANNOY-YA**  
The nervous expression and poor attitude are a common fault. The golfer should be relaxed and confident.



**VARICLOSE DRIVES**  
The golfer who drives the ball with his feet is in a poor position. The ball should be struck with the club head.



**CHUCKIN POX**  
The golfer who chucks the ball is in a poor position. The ball should be struck with the club head.



**CLOUTSTROPHIA**  
The golfer who chucks the ball is in a poor position. The ball should be struck with the club head.



**YE WRONGE GRIPPE**  
The golfer who grips the club with his hands is in a poor position. The club should be held with the fingers.



CONSULT YOUR GOLF SPECIALIST -  
**YOUR PRO**

"Strokes amputated the painless way"

(P. S. SPALDING EQUIPMENT HELPS A LOT, TOO!)

Spalding's 1947 pro display card in as many cases as possible, when names are available, is personalized with pro names filled in at bottom. If you have not received your card, please notify Adv. Dept., A. G. Spalding & Bros., 19 Beekman St., New York, N.Y.

JACKMAN SPORTSWEAR, formerly in the Lytton Bldg., 14 E. Jackson Blvd., Chicago, now are in full swing operation at their new home, 6332-34 Roosevelt Rd., Oak Park, Ill. As Ren Smith, Jackman pres., points out, the larger quarters not only facilitate handling of their greatly increased pro business but the new headquarters, away from the traffic and parking problems of Chicago's loop, make it quicker and more pleasant for the pros to visit. "Best of all," reports Smith, "our 1947 line is the finest in both variety and quality that we have ever assembled."

**USED GOLF BALLS  
WANTED**

Highest prices paid

Check mailed within 48 hours after balls are received

Known to the trade for 15 years  
Get our prices before selling

**EASTERN GOLF CO.**

244 West 42nd Street, New York, N. Y.

**ROBERT BRUCE HARRIS**

Golf Course Architect

Member: American Society of Golf Course Architects

664 N. Michigan Ave.

CHICAGO 11, ILL.

Phone: Whitehall 6530



*New! Ideal!*  
**THE PRACTICAL PRIZE**  
For GOLFERS



Beautiful, New Sessions (self starting) Electric Clock... 60 cycle—A.C.—110V. Golfing figure in lustrous Sun-Ray. Overall height 10 inches.

No. 453D, each... \$15.00 (Plus 20% Excise Tax)

Hand Engraving 7c per Letter

Write Dept. G for Free, Illustrated 1947 Catalog

**EDWIN W. LANE CO.**

32 W. Randolph St.,

Chicago 1, Ill.

Introducing the new

**"SWING WONDER"**

and booklet

**"What Is This Thing Called Swing"**

by Bea Gottlieb

A practice device to develop a conscious swing sensitivity, coordination and relaxation. The booklet, simplified and condensed, will enlighten your understanding of a golf swing. Complete set \$2.50. Box 6234 W. Palm Beach, Florida.



**KLEN-ZIP**  
REMARKABLE NEW  
CLEANER FOR GOLF BALLS

Newest chemical for removing dirt, grime and stains. Colorless, odorless. Does not get rancid, foul or slimy. No injury to hands or clothing. No soap, alkali or acid. Write for literature and free testing sample.

McCLAIN BROTHERS COMPANY, Canton, Ohio

**WINNERS OF THE 5,000 SQ. FT.** of Old Orchard bent stolons, donated by Ralph Bond as door prizes at recent turf conferences were: L. E. Lambert, Oakwood G & CC, Kansas City—at the Iowa meeting; H. J. Bohles, Minneapolis GC, Mankato, Minn.—at the Minn. conference and Orville Brown, Meridian Hills CC, Indianapolis, at the Purdue short course.

**HELEN MAC DONALD**, well known Chicago woman golf instructor, formerly located at 406 S. State St., has opened her new golf school at 716 N. Wabash Ave., Chicago. The new location is in the center of the city's near north side golfing colony . . . which adds up to a rushing business in lessons and golf equipment.

**NEW SPORTSWEAR CATALOG**—Mayflower-Medalist, Ltd., 307 5th Ave., New York 16, N.Y., has issued its new catalog of sportswear for pro shop sale. In addition to Acushnet salesmen the line is handled in New England by Jos. W. McQuade, 60 South St., Boston and in Kansas and part of Missouri by Robinson's Equipment & Supplies, 3959 Broadway, Kansas City 2, Mo.

**PATTY BERG BOOKLET**—Book of press and radio information on Patty Berg has been compiled by Wilson Sptg. Goods Co., 2037 N. Campbell Ave., Chicago. It's a swell job of providing facts on Patty for use in publicity work at tournaments and clinics she attends. It shows Patty won 40 of the 73 tournaments in which she's competed, was runner-up in 16 and medalist in 42. The booklet also contains records of Women's National and Women's Western championships.

**DECKER WITH HENDERSON**—Fred Decker, for many years pro and gkpr. at Knollwood CC, White Plains, N.Y., has joined Peter Henderson and Co., 35 Cortlandt St., New York City. Decker will represent the firm for all golf course equipment, seeds and fertilizers for golf course needs in Westchester County and Long Island, N.Y., and the state of Connecticut. His home is in Scarsdale, N.Y.



Fred Decker

**M. J. SULKA**  
GOLF COURSES OF DISTINCTION  
DESIGNED AND CONSTRUCTED  
41 LEONARD AVENUE  
ATLANTIC HIGHLANDS, N. J.  
ESTABLISHED 1920

*When it is*  
**GOLF PRINTING!**

*Specialists, for years to many of America's largest and most exclusive courses, can best serve you, too.*

**Score Cards - - Charge Checks**  
**Greens Maintenance Systems**  
**Caddie Cards - - Handicap Systems**  
**Forms for Locker and Dining Rooms**  
**and for the Professional.**

Samples to your club for the asking.

**VESTAL CO., 703 S. La Salle, Chicago**

**MARK-IT IS USEFUL GIMMICK**—R. R. McKenzie Co., 524 E. Lomita St., Glendale 5, Calif., has a new gimmick combining a device for marking a ball on a green, marking the ball for identification, a knurled section to rough up grips of clubs and a metal pick to clean mud out of grooves in club faces. It looks to be an item that should sell strong in pro shops. It retails for \$1.50. The device isn't much larger than a scoring pencil. Touching the device to the green leaves a small spot of neutral white powder marking ball location in a way that's a great improvement over the customary method of marking with a coin or the scratching with a wooden tee.

**HOGAN FEARS STALENESS**—In a feature sports article spread, Life magazine for March 24 gave a study of Ben Hogan. Life termed Hogan "The best over-all golfer since little Bobby Jones retired from competition 17 years ago". The magazine pointed out that Hogan like Jones stands 5 feet 8 inches. That Hogan's concentration and judgment "pay off" is cited by Life which said that in 1946 he was the biggest money winner in golf with \$42,000 and this year may hit \$75,000. "But", Life added, "Hogan has one constant worry, the worry of every professional golfer. At any time, for no explainable reason, he may suddenly go stale".

**SIEMS ON MIDWEST BOARD**—H. B. Siems, director of research, plant food div., Swift & Co., was elected a new director to represent industry on the Midwest Regional Turf Foundation at its annual meeting held during the Purdue short course at Lafayette, Ind. The short course was attended by 210. Other directors of the Midwest foundation for 1947 are A. L. Bran-

**ALLAN L. LONGSTAFF**  
*Professional Golfer for Over 20 Years*  
Golf Course Designing, Construction  
1929 West State St., Milwaukee 3, Wis.



don, G. O. Mott, Joe Graffis, C. A. Bretz-laff, Fred V. Grau, C. R. Runyan, George T. Donoghue and Neil Ransick. Brandon is pres. Midwest Turf, April issue, organ of the foundation, contains highlights of the March meeting. A copy may be obtained from the Foundation's exec. sec., G. O. Mott, agronomy dept., Purdue university, Lafayette, Ind.

### DIEGEL AND DANTE WRITE BOOK ON "9 BAD SHOTS"

Jim Dante, who's been pres., New Jersey PGA 5 times, and Leo Diegel, twice PGA national champion and 4 times Canadian Open winner, have written in collaboration with Len Elliott, sports editor, Newark (N.J.) Evening News, "The 9 Bad Shots of Golf—and what to do about them."

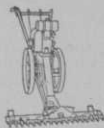
McGraw-Hill Book Co., Inc., New York, publish the book which sells for \$2.50.

Jim and Leo, conceded by pros to be 2 of the best teachers of the game, have done a very effective job in this book. They maintain that there are only 9 bad shots in golf; slicing, hooking, topping, smothering, pulling, pushing, skying, sclaffing and shanking. Diagnosis and correction of the causes of these 9 faults constitute the major part of the book. The rest of the book is devoted to the correct grip and stance, the swing, iron play, putting, play in rough and traps and on uneven lies.

Although this book is concerned mainly with "straightening out" the player who has chronic faults it is an excellent treatise for helping players who shoot from 85 up have a clear understanding of what they should do right—and why—as well as explaining the cause and cure of their troubles. It is a book that can be tied up closely with expert pro personal instruction as its sets forth what almost every other pro has shared with Diegel and Dante in the problems of getting pupils to understand the causes of their troubles so clearly they won't slump into hopeless confusion and discouragement.

**MAC-GREGOR STAFF MEETS**—Henry P. Cowen, pres. and G.M. of MacGregor Golf, Inc., and Hugo Goldsmith, president of Sport Products, Inc., conducted a winter conference of the MacGregor Golf Pro Advisory Technical Staff, at Miami Beach, Florida, March 5 and 6. The conference followed the International 4-Ball Golf Matches won by Ben Hogan and Jimmy Demaret of MacGregor's staff for the second consecutive

## CUNNINGHAM MOWER



- Fence Rows
- Driveways
- Hazards, Roughs
- Lawns, Woodlots

It mows clean and fast in tight corners; 3-foot cut; variable speed. Young folks can run it. Rugged design, detachable engine. See your dealer or write Dept. 12.

### JAMES CUNNINGHAM, SON & CO. 13 Canal Street, Rochester 8, N. Y. Est. 1838



A MINNESOTA HIGH LIME PEAT  
IT'S GRANULATED

A valuable soil amendment for green dressing mixtures and green construction. Cuts labor costs.

**NUTRIA PEAT SALES COMPANY**  
500 Stinson Blvd. Minneapolis 13, Minn.

### R. H. Tractor Wheel SPUDS

quickest to put on or take off. Increase tractor efficiency and cultivate turf that's why more than half the U.S. and Canadian clubs use them. Durable and low priced.

Sample spud and circular on request; advise make of tractor and purpose for which intended.

Immediate shipment. If your Ford or equipment dealer cannot supply, write direct to

**R. S. HORNER**  
Geneva, Ohio

MFR. OF SPUDS, FORD-SON WHEELS, ETC.



### Creeping Bent Stolons **JAMES GILMORE HARRISON** GOLF COURSE ARCHITECT

Consulting Specialist

Construction—Maintenance—Turf Production

Churchill Road Turtle Creek, Pa.  
Phone Valley 4431 or 9774 Suburb of Pittsburgh

### **WILLIAM B. LANGFORD** GOLF COURSE ARCHITECT *Balanced Topographical Design*

Member:

American Society of Golf Course Architects

Telephone: Keystone 6501

2405 Grace Street, Chicago Illinois

**GOLF RANGES**  
We have for sale  
**GOLF BALLS — TEES — CLUBS**

Write for details  
**EASTERN GOLF CO.**

244 West 42nd St., New York, 18, N. Y.



**Plastic Golf TEES**

SENSATION OF THE GOLFING WORLD

Made of cellulose acetate in assorted colors. Strong, long lasting, colorful. Golfers clamor for them. \$3 per thousand (bulk) F. O. B. Chicago. 5,000 minimum order. Order early while they last!

**CONTINENTAL PLASTICS CO.**

308 West Erie St.

Chicago 10, Ill.

year. Another conference of the MacGregor Pro Technical Advisory staff is scheduled for Cincinnati on April 9.

Cowen returned to Cincinnati on March 10 but Goldsmith remained in Miami Beach to round out his vacation at his winter home.

MacGregor Golf is a subsidiary of Sport Products, Inc.

**GOLF NOVELTY**—Smoking stands, whose tray supports are in the form of mid-irons, are innovations offered by the Funderburk Engineering Co., 29 Moody Street, Waltham, Mass. The firm promises immediate delivery. Prices and additional information may be obtained by writing the company.

**FIRE-FIGHTING PUMP**—Low cost fire protection in the form of a trailer-mounted high pressure portable pump and fire-fighting unit is now available to clubhouses in the Porto-Pumper, mfg. by Porto-Pump, Inc., 227 Iron Street, Detroit 7, Mich. With a cost about one-sixth that of most minimum priced fire-fighting units, Porto-Pumper consists of a gasoline-driven high pressure utility pump; 75 feet of supply hose, and 250 feet of fire hose; an 18 foot 3-section extension ladder; fire axe and hand type extinguisher. The trailer-mounted unit is easily attached to car, jeep, or truck and comes equipped with heavy duty tires of standard automobile center-to-center track.

**DAVIS HAS WEDESTROY**—Weedestroy, made by Riverdale Chemical Co., Harvey, Ill., is now being distributed in the Chicago area by the George A. Davis Co., Riverdale has announced. Weedestroy, which last year received wide course acceptance, is based on the butyl ester of 2,4-D.

**Selective Weed Killers**

Dow 2-4-D Powder, 70%, 50# drums \$1.65 per lb., 10# drums \$1.80 per lb., freight allowed on orders of 100# or more.

Weedone, 5 gallon drums, per gal. \$6.00. Freight allowed on 100# or more.

**Rainbird Sprinklers**

Heads only, No. 20 covers to 84 ft. \$2.75; No. 40 covers to 102 ft. \$5.50; No. 70 covers to 147 ft. \$7.90; No. 80 covers to 215 ft. \$15.70; 18" roller bases \$6.00 each.

Prices Subject to Change Without Notice.

**PAUL E. BURDETT**

SEEDS—FERTILIZERS—GOLF COURSE SUPPLIES  
P. O. BOX 241, LOMBARD, ILLINOIS

**Swinging Around Golf**

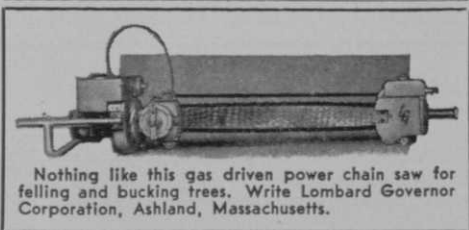
Continued from page 31

now makes news like Demaret, Hogan, Nelson, et al? make for the Grayson typewriter. . . And what pro is going to stay away from tournaments where he may make big money and "a name"?

Joe Miskovic goes to Hillsdale GC (Chicago dist.) as pro. . . Miskovic also teaches summer classes at a Chicago YMCA. . . Tracy Parks, Houston, claims his Blue Goose handmade putters, ordinarily retailing for \$15, have sold for as high as \$25 out of the bags of tournament pros. . . British are a hardy race as is proved by golf played on snow-covered courses during worst winter old inhabitants can recall.

Interesting event at Hillcrest CC (KC dist.) is scheduled Sept. 6-7 when members will play at their handicaps against their pro Wolf Rimann. . . Member who beats Wolf by longest margin gets a prize. . . Vinne Richards, head of Dunlop Rubber Co. sports dept., is made commissioner of pro tennis. . . The noted Vinnie also is a pretty good amateur golfer. . . Dai Rees, on his return to London, said there's no reason why the British Ryder Cup team shouldn't beat the Yanks this fall.

Chicago Dist. annual junior tournament to be played at Glen Oak CC, July 21-24. . . Fred Gleim, before the war pro at Shore-acres club, signed as pro by Green Acres CC (Chicago dist.). . . Jerry Cooke is pro at Cleveland Heights CC, Lakeland, Fla. . . Wm. F. Riley, 72, veteran New Jersey gkpr., who retired from Crestmont GC, before the war and was succeeded by his son, Wm. R., died recently at his home of a heart ailment. . . He was a grand old gentleman and up to a few years ago was an ice skating instructor as an avocation. . . Youngsters in his neighborhood, including his 2 grandchildren, considered him one of the world's premier toy-makers.



Nothing like this gas driven power chain saw for felling and bucking trees. Write Lombard Governor Corporation, Ashland, Massachusetts.