Noer's Turf Roundup

(Continued from page 41)

ones in Texas, designed to determine the physical characteristics of a soil which will resist compaction and insure deep rooting are a step in the right direction. There should be some simple, quick way to test sand, soil and humus to evaluate them as constituents of a satisfactory topsoil mixture for golf greens. Highway engineers have found many of the answers to soil compacted subgrades for roadways. The same should be possible for golf greens. It would remove guesswork in formulating topsoil and topdressing mixtures.

Some clubs do not have funds for a rebuilding program. Where money is available, reconstrution is apt to extend over several years. In either case the supt, has the problem of keeping satisfactory surfaces for play. Troubles arise during hot weather. That is when root systems vanish on greens where the soil is heavy and compacted or is interspersed with layers of sand or humus. Turf must be watched for wilt throughout the daytime seven days a week during hot weather. Greens must be showered with a little water at the first sign of wilt or grass will wither and die. Showering for more than a few minutes is dangerous because it may be necessary to use water several times on the same day. Surfaces may become overly wet if one uses more water than is needed to stop wilt.

Watch for Iron Chlorosis

The greens must be watched for iron chlorosis. A sickly, pale green color is the unmistakable sign. Unless normal green color is restored promptly by using a little ferrous sulfate (Copperas) grass may succumb to leaf spot, or it may wilt and die. The rate for iron sulfate should not exceed 2 ozs. per 1,000 sq. ft. with not more than 25 to 30 gals. of water for the entire green. Watering for several hours afterwards is not desirable because the iron is absorbed by the leaf. Late afternoon is the best time to apply iron.

By using modern aerifying equipment poor soil conditions can be improved. The cores should be removed and greens should be topdressed after aerifying with the right kind of mixture. By doing this several times each year and by applying the maximum amount of top-dressing the turf will tolerate, it is possible to create a more favorable soil medium and to encourage deeper rooting. Greens with bad soil conditions have been rectified by this



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method without rebuilding on many courses.

Sponge-like thatch on many bent grass greens created trouble in 1958 during wet spells because of its high waterholding capacity. An overly wet thatch encourages disease and is one of several causes of iron chlorosis.

Thatch formation may occur on fine textured Bermuda greens unless steps are taken to prevent its formation. Thatch consists of partially decayed stems and leaves.

Lime vs. Thatch

Steps must be taken to rid greens of excessive thatch. It can be accomplished by the periodic use of a little lime, preferably hydrate, along with enough nitrogen fertilizer for the grass and the cellulose decomposing soil microorganisms, together with aerification to insure a plentiful supply of air. Cellulose decomposing organisms are of the aerobic type (they must have free oxygen).

Lead arsenate is returning to popularity for use on greens and is being applied to fairways by some clubs. Excellent control of crabgrass on fairways was obtained by one Chicago club with 250 lbs. per acre. On greens the lead arsenate inhibits poa annua when used properly besides curbing crabgrass. Calcium arsenate is being substituted by some. It is effective, but caused burning in some of our trials 30 years ago. For that reason it is best to test its effect in a limited way before embarking on large scale use.

300 Pros Expected to Play in Seniors Championship

About 300 pros over 50 years of age will seek to dethrone Gene Sarazen, defending titleholder, when the PGA Sen-iors Championship is played at Dunedin, Fla., Jan. 27-Feb. 1. The event is cosponsored by Wm. Teachers & Sons, Ltd., Glasgow and the PGA. Past champions and winners of 33 sectional Seniors titles play in the tournament with expenses paid as guests of Teachers. A total of \$10,000 in prizes is being offered for the 1959 competition with the winner getting, in addition, \$1500 for a trip to England where he will meet the British Seniors champion this summer. The winner also will receive the Ronald Teacher trophy, a sterling silver bowl fashioned after a medieval Scottish quaich or drinking cup mounted on a plinth or base fashioned from part of a beam of the Glasgow Cathedral.

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MODERN and PEERLESS Lawn Mower Grinders WEST POINT Aerification Tools and Equipment MILORGANITE Organic Fertilizer **BUCKNER** Irrigation Systems **TORO** Tractors and Mowers **RYAN** Power Sod Cutters **ROYER** Soil Shredders JARI Power Scythes

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Le Roy Rollers Built to Prevent Scalping, Twisting

LeRoy cast drum rollers are heavily constructed for hard use. They are cast in one part



with no liquid needed for added weight. Available in 18 and 21-in dias., they have rounded edges to eliminate scalping and braced steel angle frames to prevent twisting. Axles are onepiece and bearings Arguto hardwood oilless. Rolling widths are 6 to $12\frac{1}{2}$ -ins. Single gang units also are available in 4-in. widths. Full information can be had from Le Roy Manufacturing Co., Doylestown, Pa.

Penfold Makes Swing

Dick Penfold, head of the widely-known British golf ball manufacturing company, made a swing of major U. S. and Canadian golf merchandising centers late in 1958, then went to Mexico City for the International Golf Assn. pro matches.

Penfold has started his own club manufacturing company and has bought one of the noted English golf glove manufacturing companies. He says that Penfold ball business was very satisfactory in the U.S. and Canada in 1958.

Stow-A-Way Has Many Uses

The Pennware Stow-A-Way Shed, made by Pennsylvania Hardware Mfg. Co., Malvern, Pa., is a handy course utility shed that can be used as a refreshment stand, caddie shelter, storage building or 3-sided shelter. It comes pre-assembled, can be put together with a screw driver and can be quickly taken down and relocated or stored. It is constructed of steel, prime coated and comes in a variety of sizes with choice of 36-in. and 72-in. doors.



IH 240 Built for Courses

International Harvester Co's new 240 tractor is said to be especially suited for all purpose use on courses. It can pull a 7-gang mower, yet has weight distribution that causes no damage to fairways. The 240, it is claimed, also does a fine job of handling a rotary type mower for rough cutting or leaf mulching. It also adequately handles a 1,300 lb. lift capacity loader.

Agriform Co., West coast distributor for Nitroform Agricultural Chemical Co., Woonsocket, R. I., recently opened its 18th plant in Woodland, Calif., a 200-ton-per-day fertilizer unit. Woodland has storage facilities for 2,000 tons.





Ultralast, vinylast and terralast, manufactured by Vinyl Plastics, Inc., 1825 Erie ave., Sheboygan, Wis., are color matched by electronics and have no surface veneer to crack or peel off because color extends through entire thickness. They are easily cleaned, are stain resistant and are resistant to indentation. ½-in. tiles come in 9, 12 and 36 sq. in. sizes and are available in 19 colors. Tiles can be installated on radiant heated floors, wood floors above ground level, steel decking, concrete, walls and countertops.

Pros Learn About Women's Golf Shoes

Ede Bowen, wife of Kip, maker of Wm. Joyce golf shoes, showed pros what makes women's golf fashions and backstage planning, design and merchandising factors during several fashion shows and cocktail parties she and Kip put on at the Ft. Harrison hotel during the PGA meeting.

Ede had Joyce women's golf shoes, in colors, worn by models who had complete golf costumes to match. DiFini and Catalina, makers of women's shorts and skirts, Olympia Knitting Mills (sweaters), Kathleen of Miami (hats) and other manufacturers collaborated. Mrs. Bowen was assistant designer of Joyce shoes when she and Kip first met. Now that her younster has grown up she has renewed her interest in the shoe business.

Sabayrac Shows New Styles

During the PGA's annual meeting, Ernie Sabayrac and his staff showed the 1959 lines of John Alexander sport jackets, Tiffany slacks and Countess Mara ties. A new division of the Sabayrac organization has been formed by Lyle (Bud) Werring, merchandise director of the company, to handle these items.

AMERICA'S FINEST GOLF PRACTICE NET

made with United States Rubber Company's shock absorbent ENSOLITE

-a tough expanded cellular plastic pad sewed to heavy duck and designed to withstand the terrific impact of high velocity drives. Prevents ball rebound.

Please enclose check, money order or purchase order.

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Leading Country Clubs Use South Bend Golf Practice Nets

West Point Distributes Fuerst Tine Harrow

The Fuerst Flexible tine harrow is being distributed nationally by West Point Products Corp, West Point, Pa. It has $3\frac{1}{2}$ in. long flexible tines



and is especially useful for seedbed preparation and pulverizing cores after aerification. Fuerst Flexible comes in two sections and the extraheavy duty model weighs 360 lbs. and heavy duty, 300 lbs. Sections are 10 ft. wide and front can be dragged, tines down, to scarify and rear, tines up, to smooth surface.

Worthington Promotes Van Pelt

Allen Van Pelt has been appointed Western field sales engineer by Worthington Mower Co., Stroudsburg, Pa. He will make his headquarters in Ventura, Calif. and cover 11 western states, three Canadian provinces and Hawaii. Van Pelt has been with Worthington for six years, the last two of which have been in connection with the company's service schools and clinics.

Ferem Sales Rep for Burke

Burke Golf Sales, Inc., has appointed William H. (Bill) Ferem sales rep for Tex., Okla. and N. M. A Dallas resident, Bill attended the University of Houston and is well-known in the Southwest through his work as a salesman and a football official in the Border Conference.

Kent Bradley Catalog

Among the items listed by Clinton KENT Bradley, Wayne, N. J., in his latest catalog are bamboo whipping poles, 2-way radio transceivers, tee towels and trap groomer (leave in trap) rake. Bradley is a supplier of all types of golf maintenance items.

Gardner With Triangle

Robert W. (Bob) Gardner, two times winner of the California amateur title and present Metropolitan amateur champion, has joined Triangle Conduit & Cable Co., New Brunswick, N. J., as distributor relations supervisor.

> Next Stop Chicago! GCSA Convention January 26-30



LAWN MOWER STATIONARY BLADES



SINGLE (1/4") Raised Lip — Heavy Duty Blades for all Makes of Fairway and Rough Gang Mowers. DOUBLE (1/4") Raised Lip — Heavy Duty Blades for all Makes using this type Blade. Hand and Power Putting Green Mower Blades, Power Mower, Tee Mower and Trimmer Blades all made of the best quality knife steel and specially hardened to insure long wear and fully guaranteed to give complete satisfaction. Municipal Parks and Golf Courses, Public Courses, Golf and Country Clubs, Dealers and Repair Shops allowed special discount. You will save important money buying direct from manufacturer.

JONES MOWER & EQUIPMENT CO.

2418 Grasslyn Avenue, Havertown, Pa.

Toro Demonstrates "Wind Tunnel" Mowing at Westchester CC

At a demonstration at Westchester CC, Rye, N. Y., last October, Toro Mfg. Corp., Minneapolis, gave an exhibition of "wind tunnel"



mowing, said to be the first significant advance in grass cutting since rotaries were powered. The Whirlwind, under a special housing, has a full-circle expanding wind tunnel that creates a powerful vacuum. The vacuum "freezes" every blade of grass upright for a crisp, clean cut with no clumping or bunching. A spiral chamber, giving smooth uniform airflow, makes it possible to cut wet grass without clogging the housing. Compressed air blows clippings and leaves into a bagging attachment, standard equipment with the Whilrwind along with chute and leaf mulcher.

Details on Bag Boy

An eight page folder published by Jarman-Williamson Co., 601 N.E. 28th ave. Portland 12, Ore., gives complete information about De-Luxe and Special Bag Boy golf cart models in addition to the Bag Boy golf and sport seat. Selling prices, pro profit margins and features of the products are among the things covered in the folder. The folder can be obtained upon request to Jarman-Williamson.

Mechanical, Structural Improvements in 1959 Cushman Car

The 1959 Cushman Electric Golfer is available in a choice of two-tone color combinations and offers several mechanical improvements. It has a new forward and reverse switch for left hand operation and an improved foot control switch. There also is a new wheel suspension pivoted in rubber, an improved silent differential





NEW CLUB REVENUE THROUGH SKATING

Convert your tennis courts, or other flat terrain into a skating rink.

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G&S PACKAGING CO., 3935 Seyburn, Detroit 14, Michigan. WA 1-1526, or Box 164, Upper Montclair, N. J.

drive, airplane type shock absorbers, exterior mounted charging plug and rear wheel mechanical brakes plus a positive parking brake. Struc-



Burke, Demaret have picked Cushman for their new Houston Champions course

turally, the Electric Golfer is longer and wider with a frame that encircles the front for greater strength and protection. The Golfer has a 24or 36- volt system, travels up to 36 holes or more without recharging. A 22-amp battery charger is standard and 30-amp charger optional.

Cloro-Spray to Introduce Preventative, Gas Lube

Cloro-Spray Corp., Philadelphia, will introduce two new products at the 30th GCSA turf conference this month. One is No-Drip Lube Rust Preventative, an all-purpose lubricant that won't melt or drip at highest temperatures, and a preventative, ideal for protecting against corrosion when equipment is not in service. The second product, Lawn Mower Gas Lube mixes with gas in the 2-cycle mower engine. Its low carbon content is said to assure 75 per cent less starting aggravation than other oils and only 25 per cent as much is required for efficient operation.

New Adjustable Putter

A new aluminum putter with lead weight mounted inside the head is now on the market. An adjusting screw slides through the center of the head, enabling the golfer to adjust weight to suit his stroke. It is made by Tru-Balance Putter Co., 1601 6th st., S., Minneapolis. Strengthens the Grip

F o x g r i p S p o r t i n g Goods, 1 Vanderbilt ave., New York 17, is marketing a hand strengthener that, it is claimed, if used only a few



minutes a day, will give nand, wrist and forearm muscles the exercise needed to hit the ball farther. It is made of finest tempered spring steel with leather handles. It has gone over well in pro shops around New York. Distributors are wanted to handle the product.

Southern Turf Busy

Southern Turf Nurseries, PO Box 569, Tifton, Ga., according to E. R. Jensen, agronomist, aided in planting more than 1200 greens in 1958. Of this number, 350 were planted by Southern Turf itself. The firm also fumigated 200 greens in converting from old turf to the new Tifton 328.



Vinyl foam for cushions from Union Carbide Plastics Co. is used in golf cars manufactured by Worthington Mower Co., Stroudsburg, Pa. Pliable vinyl foam cushions, it is said, work well on cars without springs.

F-R-H Chain Grinder

A new saw chain grinder that is operated on a bench or pedestal with convenient foot-treadle

action is in production at the Fate-Root-Heath Co., Plymouth, O. Known as the Model 30 Peer-less it is engineered for precision re-machining of chipper, chisel and crosscut chains and is fully adjustable vertically and horizontally. The grind-



ing wheel is set up to handle left and righthand cutters identically. Total weight is less than 70 lbs.

Jacobsen Officers, Directors

At the annual meeting of Jacobsen Mfg. Co., Racine, Wis., in December, Oscar T. Jacobsen was elected board chmn. Other officers elected include: Einar A. Jacobsen, pres. and general mgr.; James F. Costello, secy-treas.; V. E. Bunck, asst. treas.; Charles A. Livesey, vp, sales and Earl R. Frederiksen, vp, purchasing. Holdover directors are Oscar T. and Einar A. Jacobsen, Costello, James S. Allan, John F. Bolger, Bunck, Donald A. Butchart and Charles E. Krause. New directors are Livesey and L. W. Van Natta.

Sports Award Catalog

A 68-page master trophy catalog describing products of the Sports Award Co., 429 W.

Superior st., Chicago 10 is now being dis-tributed. The company's pricing has recently been changed to allow pros a more profitable margin than heretofore. They also are encouraged to consider Sports Award headquarters a warehouse since the com-



pany can give quick service on all orders. The trophy catalog can be obtained upon request to the company.

Aquatrols Explains Non-Ionic License Agreement

Lawrence W. Fletcher, Aquatrols Corp. of America, Bryn Mawr, Pa., has been granted a patent, No. 2,867,944, entitled "Method of Treating Soil by Non-Ionic Surface Active Agents." Aquatrols sells its product, Aqua-Gro under the following license agreement: Licensed for treatment of soil according to Patent No. 2,867,944 by reason of inclusion in purchase price of a royalty based on 10 cents per lb. of non-ionic wetting agent. License to use at this rate with material obtained from any source will be granted by Aquatrols. Use for any purpose other than soil treatment in accordance with patented method entitles the user to re-



Spalding staffers, Marilynn Smith, Al Brosch, Lighthorse Harry Cooper and Mike Turnesa drive from deck of the Navy's largest aircraft carrier, the U.S.S. Independence. The \$18,000,000 vessel, being commissioned this month, is 350 yards long. Turnesa came closest to driving the length of the deck.

fund of royalty or deduction of royalty from purchase price.

Aquatrols Corp. staff men will be at Booth 127 at Turf show to explain uses of non-ionic wetting agents.

Ferree on MacGregor Staff

Jim Ferree, U. of North Carolina grad and a pro since 1955, has joined the advisory staff of The MacGregor Co., according to R. D. Rickey, vp. The son of a pro, the 27-year old Ferree became one of the bright young lights of the tournament circuit in 1958, winning the British Columbia Open in Vancouver. His next best showing was a fifth place finish in the 1958 Eastern Open.

Shortly after Ferree signed, Hillman Robbins, Jr., former national amateur champion, joined the MacGregor staff, bringing to 31 the number of pros now serving with the company's advisory group. Robbins won the '57 Amateur, '54 Na-tional Intercollegiate and North & South and Southeastern titles. He also was a member of Walker and Americas Cup teams. A Memphis native, Robbins graduated from Memphis State.

Portable Driving Range

"The King of Swing" is a portable driving range that is easily set up in backyard, base-

ment or garage. Regulation balls are used with it and the target is movable. Frame is 8 ft. square with 12ft. back supports, net is heavy duty, small mesh and target is leatherette. King of Swing is packaged in



Co., 900 S. Wabash, Chicago, Ill.

Seavey Is H & B Sales Rep

Hillerich & Bradsby Co. has named John Seavey sales rep for the Power-Bilt club line in Colo. and Wyo. Seavey is a member of the PGA and lives in Denver.



Reasor-Hill Weed Killer Gives Wide Aquatic Control

Reasor-Hill Corp., Jacksonville, Ark., is using a standard weed killer (2, 4-D) but is adding a new twist to weed killing by using the solution in granular rather than liquid form and killing



Eight weeks after granulated 2,4-D was applied, this pond was clear of weeds. Killing effect goes on for about two years.

roots rather than leaves. Great strides have been made in weed control on lakes, ponds, etc. (see photos) through the R-H method and many new uses are anticipated. Granular application is said to be easier and safer to make in aquatic vegetative control and fish are not affected nor water contaminated. Closer control also is claimed for the root-killing method.

John L. Prechek, Bellevue, Wash., has been named asst. mgr. of the San Francisco dist. of Keasbey & Mattison Co., Ambler, Pa.

Barton Heads New Sales Subsidiary for Worthington

Worthington Golf Inc., a wholly-owned subsidiary, has been formed to sell and distribute

all products manufactured by Worthington Golf Ball Co., Elyria, O. The new company also will handle other golf accessories through its specialized sales force. L.R. (Red) Barton, with Worthington since 1929, has been named vp of the new firm. He will direct the sales effort and be in charge of merchan-



Barton

dising and advertising the subsidiary's entire line of products. Barton has been general sales mgr. of Worthington Ball for about a year. Other officers of the new company are R. F. Smith, pres., and M. E. Foote, secy-treas.

Ball Is Burke Sales Adviser

Errie Ball, head pro at Oak Park (Ill.) CC and Tucson (Ariz.) CC, is now a member of the Burke Golf Sales, Inc. technical staff. The son of W. H. Ball, 50 years a pro at Lancaster (Eng.) GC, Errie came to the U. S. in 1930. He has played in the USGA Open 18 times, and PGA Championship 19 times.



NIMISILA Greens are playable weeks ahead of seeded ones. How much is a Month's play worth? BILL LYONS TURFGRASS FARMS 1843 Glenmount Ave. Akron 19, Ohio





Jacobsen's Velva-Trim with a 6-blade reel is said to give a "putting green" finish to turf. It is available in 18-in.

and 21-in. models. The Velva-Trim is powered by a 13/4 hp Briggs & Stratton engine with automatic re-wind starter and has engine and traction controls at the handle grips. Out-front cutting unit throws



clippings forward and permits trimmings to 3/4 in. of obstacles. Grass catcher is available at extra cost. Rear wheel drive is designed to eliminate ridges. Complete information can be obtained from Jacobsen Manufacturing Co., 747 Washington ave., Racine, Wis.

Toro Sales Competition

Toro Manufacturing Corp., Minneapolis, is conducting a sales promotion contest for salesmen of its 80 distributors. Those who sell 75 per cent or more of their unit quotas will be eligibile for prizes in the contest that runs until Feb. 15. Winners will get merchandise prizes.





International Harvester's new McCormick No. 27 trailing rotary cutter with 84-in. cut is adapted for large areas such as courses. It also works effectively the who works effectively the who works effectively

in brushy areas, cutting brush up to 3-ins. in diameter. Also available is the McCormick No. 28, a low deck, 60-in. cutter. Both cutters have all-steel reinforced housing, free swinging, reversible doubleedge knives.

Scott Gets Manufacturer's Award

Jimmie Scott, pro at Ulen CC, Lebanon, Ind., was awarded a diamond ring at the annual PGA meeting in Dunedin by Manufacturer's Specialty Co., St. Louis, for being the leading promoter of the firm's Pro-Grip products.