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NEW DESIGN
Suggests proper position of hands for best swing. V's in design indicate hand placement.

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Recent discovery. Only grip material which will not harden or glaze. Non-slip in all weather.

NEW
The Herringbone pattern gives the finest
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Featured by all the best pro shops.

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Akron 20, Ohio



COST AND RECORD KEEPING — expenditures, payroll, material application, weather, etc.

REPORTS — written weekly progress, long term plans, annual plans, meetings, etc.

STRUCTURE MAINTENANCE — service building, shelters, fencing, pump house, bridges, etc.

PROGRESSIVE EDUCATION — publications, conferences, schools, associations, field testing, meetings, etc.

COOPERATION — committee, golfers, manager, pro and caddymaster, superintendents, etc.

KNOWLEDGE OF GOLF — participation, reading, conversation, spectator, etc.

EQUIPMENT — purchase, storage, maintenance, inventory, operation, selection, etc.

BUDGET — preparation, presentation, execution, etc.

The above outline makes a good guide for the supt. in appraising his qualities as an operating executive, responsible for a big and basic investment in golf property. It also gives club officials an idea of the extensive and vital scope of the supts.' work.

Remarks of supts. who spoke in this

section of the program appear elsewhere in March GOLFDOM or will appear in future issues.

Robert E. Scott, Jr., Bonnie View CC, Baltimore, Md., marshalled the research experts who reported on the high spots of new developments in research with Dr. Marvin F. Ferguson, Southwestern Director, USGA Green Section, College Station, Texas, serving as moderator. Superintendents were treated to a comprehensive roundup of the latest developments from north, east, south and west in one of the most compact and enlightening sessions of the conference.

Dr. James R. Watson, Jr., Agronomist, Toro Mfg. Corp., reported recent findings in studies made by graduate student Raymond Kunze at Texas A. & M. College and Dr. O. R. Lunt, Dept. of Irrigation and Soils at UCLA to determine mechanical composition of a soil mixture which resists compaction yet produces good turfgrass growth. Conclusion reached by Kunze in his study was that a mixture containing 80 to 85 per cent sand, 5 to 10 per cent of a well aggregated clay soil and 10 per cent peat most nearly met the requirements set forth. Tests made by Dr. Lunt showed maximum compaction occurred in the top inch

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BALANCED GOLF BAG

The world's largest-selling lightweight bag . . . and the only bag with the patented balancing feature that makes it easy to carry and prevents clubs from falling out. Perfect for the player who objects to excess weight . . . for beginners and juniors.

Roomy — holds 15 clubs. Made of heavy duty green canvas with beautiful natural russet trim . . . and NOW MADE WITH HEAVY-DUTY RUBBER BOTTOM.

5 to a carton

Now available packed five bags to the carton, enabling shipment to be made via parcel post. Minimum shipment—5 bags. Suggested retail price, \$6.95 each.

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Sold thru distributors of
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Balanced Golf Bag—A division of C. M. Hill Co., Peoria, Ill.

The stick
does
the
trick!

**STANDARD
MODEL**

**15 Club
Capacity
Color: Green**



and one-half of soil on putting greens and also that a four inch layer of sand on top of a soil susceptible to compaction would protect the soil underneath from compaction. Lunt pointed out that in building a green over which a sand layer is to be placed, preparation of the underlying soil is important; it is not necessary to mix sand with the underlying soil, fertilization program will have to include frequent applications and indications from the experimental green at UCLA are that two irrigations per week are adequate to support growth during hot weather.

Watson also reported developments in the work on snowmold control. In summarizing he referred to the work of Dr. J. B. Lebeau at the Univ. of Alberta, Edmonton, Canada and the emphasis placed on the fact snowmold is a general term applying to a disease which has many casual organisms and because of these different organisms control measures may differ in various geographic areas. This explains in part why some fungicides may perform satisfactorily in one area and give poor control in another.

In a rapid fire presentation using slides to fully illustrate his discussion, Dr. Gene Nutter, Turf Technologist, Dept. of Orna-

mental Horticulture, Univ. of Florida, gave a complete roundup of the research being carried on at the University and at Tifton, Ga., Experimental Station to help solve the problems in Southern turf management with special attention being given to nematode and weed control study.

Dr. Ralph Engel, Associate Research Specialist in Turf Management, Rutgers Univ., New Brunswick, N. J. reported on work being done at Rutgers and in the Northeast. He warned superintendents many new ideas and new chemicals today are being developed and that often premature use of these new materials may prove costly. Two or three seasons or more are needed to prove a given material or practice. If mistakes are to be made make them on test plots. If new products or materials are tried take the conservative approach until assured of favorable results.

A summary of investigations and studies being made on controls of new diseases and uses of new compounds gathered from many sources was presented by Dr. William Klomprens, Plant Pathologist, The Upjohn Co., Kalamazoo, Mich. New results as well as old recommendations were tabulated by Klomprens on at least a dozen of the more common diseases. This

tabulated information was distributed to those present and is available on request.

Contributions research have made to golf course maintenance and reports of the practical application of new developments were made by regional directors of the USGA Green Section. Charles K. Hallowell reported from the Mid-Atlantic, Alexander Radko from the Northeastern and William Bengeyfield from the Western Region.

In closing this most informative session Ferguson pointed up the need for more research. Every new day presents more problems to be solved. In a national economy of better than \$400 billion industry reportedly spends approximately \$4 billion or one per cent on research. Better than \$100 million is spent annually on golf course turf maintenance. At the same rate, at least \$1 million should be going into turf research but according to Marvin not more than one-fifth that amount is being spent.

Thursday afternoon, Ralph Zegarac, Sunnyside GC, Waterloo, Ia. conducted the

session which opened with Dr. William H. Daniel of Purdue University and Midwest Turf Foundation giving the supts. case histories on learning from experience. He cited instances of zoysia, bent and Bermuda use under comparable conditions in St. Louis, Evansville and Ft. Wayne, Ind., which would eliminate expense of time and money in event tests of the grasses were made independently in each city.

Daniel urged that more attention be given to examining the experience of other supts., and conditions under which their experience was gained, before making major changes in maintenance or construction programs.

The Purdue agronomist told of the need of improving watering practices and of making more use of soil moisture measuring devices. He commented on growth of soil sterilization in golf course work. Daniel showed views of research work at Purdue's test plots and remarked that 60 varieties of Kentucky bluegrass are being tested.

STOP BALL MARKS ON GREENS



ACTUAL SIZE

Provide your golfers with this inexpensive tool and have 200 to 400 men and women help maintain those beautiful and expensive greens. Our many repeat orders prove that this little tool has a definite place on all golf courses. This tool can be used as a shoe horn—to clean dirt from spikes and upper soles of shoes; also clean scoring from club heads.

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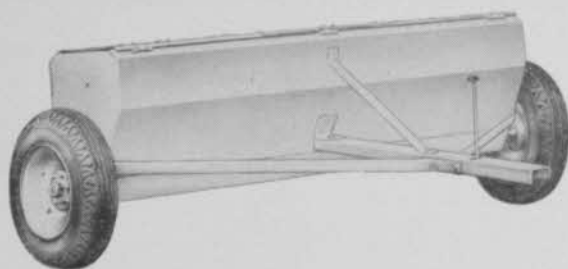
WOODSIDE GOLF & PARK SUPPLY CO.

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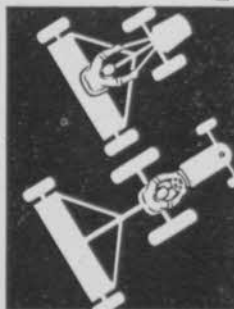
No need for Green Chairmen or Golf Course Superintendents to continually shoulder the blame for greens having those ugly ball marks.

Garber 5 ft. seeder-fertilizer spreaders



Can be used with any 2 or 4 wheel garden tractor—

The Garber 5 ft. seeder-fertilizer spreader quickly attaches to any type tractor you may own. If it's a two-wheel model, you ride right on the hopper. The gate control is located on the tongue—within easy reach of the operator.



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Here's the ideal piece of equipment for your fairway seeding and fertilizing problems.

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A COMPLETE LINE OF PUSH AND PULL TYPE SEEDER-FERTILIZER SPREADERS

Moffitt Speaks

Harry Moffitt, PGA pres., extended greetings from the pro organization to the supts. and stressed the importance of co-operation between the two department heads. Moffitt said fullest use should be made of the pro's contact with players to acquaint the latter with the problems and achievements in course maintenance work. Harry pointed out that if the player enjoys a game on a well-conditioned course, he is a good customer for the pro shop. He also stated that where club finances call for a combination job, the man on that job has to have the course in good shape before he can operate as a pro.

"Golf Cars — Friend or Enemy?" was the exciting, practical topic presented by William J. Freund, sales mgr., Electri-Car div., Victor Adding Machine Co. Freund asserted the car situation is settling down and 23 companies are making golf cars today rather than the 43 active in manufacturing a year ago.

The Victor sales mgr. reported that the trend is to have the supt. made responsible for cars from the 18th green until they arrive at the first tee, ready for action, and for the pro to be responsible while the car is on the course.

Freund reported that the division of

revenue from golf cars is frequently under discussion and that the supt., whose work and results are most directly affected by golf car use, must be considered in these discussions.

There was spirited discussion following Freund's address. Paths, if provided for golf cars, it was pointed out, should be half again as wide as the widest car, laid out with golf architecture in mind so a ball won't hit or rest on a car path, and be free of wide, sweeping curves so a tendency won't develop among players to take short cuts. The possibility of getting tires, designed for golf cars, was also mentioned.

The conference concluded Friday morning in a "wrap-up" session launched by Ralph Guyer, Westborough CC, Webster Groves, Mo.

Charles G. Wilson, agronomist of the Milwaukee Sewerage commission summarized the conference in a masterly condensation of each talk.

The finale was a Question and Answer period which presented as experts, supts. who had talked as members of the panel which had discussed "Responsibilities," and turf panel experts who reported on "New Developments in Research."

(Continued on page 130)

Support for Tax Repeal

(Continued from page 39)

merits of the bill and encouraging full support.

Fewer Private Clubs

It is not generally known but the present 20 per cent tax on assessments for construction and improvements has been a more far reaching deterrent to the development of new private clubs than is realized. So much so that there are fewer private clubs today than at any time in the past 25 years. In 1931 with a total of 5700 golf clubs in the United States, 4448 of these were private clubs. Today, with a total of less than 5400 golf clubs, there are only 2801 private clubs — an alarming downward trend. At the same time and during the same period, the number of public courses, i.e., privately-owned fee courses, has more than doubled. There are now 1692 compared to only 700 in 1931, and there are now better than 870 municipal courses where there were only 543 in 1931.

Certainly this heavy tax has had a telling effect; not only stifling construction of new facilities but in denying a very desirable segment of our population (the nation's young men) club memberships. In

the words of Golfdom's editor, Herb Grafis, "you can be confident that any competent study of this tax on 'the pursuit of happiness' would show that passage of the proposed bill would result in an overall and logical increase in tax revenue from recreation activities — particularly private golf clubs."

Specifically, the bill under discussion, if enacted will amend section 4243 of the Internal Revenue Code, adding the words, "notwithstanding any other provision of this part, there shall be exempted from the provisions of section 4241 any assessment paid for the construction of any social, athletic, or sporting facility (or for the construction of any capital addition to, or capital improvement of, any such facility)."

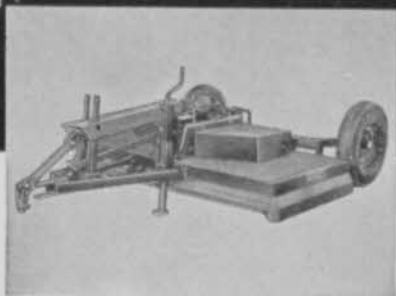
"Actually, as Rep. Curtis says, "this bill will be of considerable benefit to many groups besides golfers. Hunting and fishing clubs, bowling clubs, etc., are all affected. Organized labor is interested in the bill because of the numerous clubs they have and the undue cost in the original capital investment due to the tax . . . It will be a great boon to millions of Americans."

Every club must act now. 2800 private

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- 12 Models . . . for every tractor
- Mows grass, shreds brush, mulches leaves
- Quick detachable, free-swinging blades
- Trouble-free, simple construction
- Costs less to buy and operate

Your roughs will look neater when they're mowed with a Wood's Rotary. No more ragged corners . . . no matted tall grass or missed weeds. Fewer stops, too—mower doesn't jam when it hits tin cans, lost balls or other obstructions. The Model 80 takes nearly a 7-foot swath, cuts up to 4 acres an hour. Ideal for any large acreage weed mowing, brush cutting—leaf mulching, too. Maneuvers easily around banks and ditches. More dependable and less expensive than reel-type or sickle bar machines.



MODEL 80—6' 8" cut

12 models . . . 42" to 114" cut. 42" under-mounted for Farmall Cub, Lo-Boy, Super A, 100, A-C G, M-H Pony and Pacer. 42" rear-mounted for Fast-Hitch Cub and Lo-Boy. 61" and 80" rear-mounted for Fast-Hitch Farmalls Super C, H, M, 200, 300, 400, I-300 (all use 3-pt. adapter), and all standard 3-point hitch tractors (Ford, Ferguson, Oliver Super 55, etc.). 61", 80", and 114" drawbar pull-types for any 2, 2-3, and 3-4 plow tractor. 80" offset model (2-3 plow) for working under trees.

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TURF INSECTS with proven CHLORDANE

White Grubs, Cutworms, Ants, Chiggers, Earwigs, Chinch Bugs, Mole Crickets, Japanese Beetle Larvae, Sod Webworms (Lawn Moths) . . . Chlordane kills all of them . . . and prevents mole damage. That's why you can't go wrong with Chlordane . . . it helps keep turf green and healthy, a credit to your good management, all summer long.

To help give your greens and fairways the "cared for" look, use Chlordane to kill turf insects.



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Please send me your new FREE Lawn and Garden Insect Folder, and Turf Insect Folder.

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clubs must act now, Rep. Curtis introduced a similar bill in the last Congress which got nowhere because of a lack of interest on the part of the general public. Passage of H. R. 133 should not fail for the same reason.

Members of the Senate Finance Committee and the House Ways and Means Committee are shown in the box on page 39. Write, wire or see your own Congressmen and Senators who may be on these committees and explain to them the merits of the bill. Do it today.

Modernized Drainage, Scald-proof Bent Are Great Assets

By CLIFF DEMING

Supt., Sleepy Hollow CC, Brecksville, O.

Last year's experience at our club strongly confirmed our reasoning which resulted in the modernization of our drainage system three years ago.

We had worked on the belief that drainage installations that had been made years ago in our and other older courses probably were inadequate and obsolete in design. Consequently, we installed 20,000 ft. of drain tile through our fairways.

The cool, wet spring and summer in 1956 found our new drainage system functioning so well the course was playable several weeks earlier than ever before in the spring, the fairways were in fine condition for play throughout the golf year and there was an excellent stand of grass in soil formerly too wet to produce good turf.

I am sure that drainage systems merit a lot more attention than they generally get on older courses.

One thing that worked out very well in our new system was the plan of laying three or four parallel lines lengthwise on a saucer-shaped fairway rather than in herringbone pattern.

Brownpatch Problem Licked

Research done in the fungicide field in the past few years has virtually licked the brownpatch problem so now we have scald as the No. 1 headache when hot and humid weather hits us suddenly after moderate or even cool temperatures.

Poa annua, being exceedingly susceptible to scald, calls for continued and intense research that will point to how we may eliminate that grass, or control it so it can be kept through scalding periods.

Parents' Support Needed in Junior Golf Program

Keeping parents informed of what is going on insures the kind of support and encouragement needed to put over a Junior golf program, says Grant Bennett, pro-supt. of the Florence (S. C.) CC.

"I'm strong for good parent relations," Bennett says. "When I started my Junior program I found that if you try to sell a kid's father and mother on the idea that golf is not only healthy for their youngsters, but teaches him self control and sportsmanship, you've got a real talking point. When I want to put over something special in my Junior program, I put more pressure on one or both of the parents than on the child because after you've got the adults properly enthused, their enthusiasm is transmitted to the child. It makes the job easier."

Bennett, who held offices in both the Carolinas PGA and GCSA, points out that the real secret of running a Junior program is being able to detect when a group of youngsters have become restless and distracted and would rather play Cowboys and Indians than continue swinging at golf balls. He has had them all the way from two to 18 years of age in his Junior setup and has concluded that any pro who can get 10 solid teaching minutes out of 30 has conducted a successful lesson. Another important thing, Bennett says, is for the pro to try to understand the complexes and restraints common among children and then learn how to cope with them.

Saturday mornings are set aside for Bennett's Junior clinics. Children, 11 and under, make up one group and the older ones, a second. Practice emphasis for the younger ones is placed on short iron play; the older kids besides getting instruction in hitting short shots are shown how to handle long irons and woods. When rain intervenes the kids are taken inside to brush up on rules and etiquette which Bennett graphically outlines through the use of imaginary situations and rounds.

For the past several years, Bennett has played a leading role in promoting and staging Junior tournaments in South Carolina. Several of them have been held in Florence. They are divided into three groups with 64 12 to 18-year olds competing for the major title; 16 sub-juniors (9 to 11 years of age) playing for the championship in that class; and eight youngsters (8-years old and younger) vying for pee wee honors.

CUT MOWINGS CUT COSTS... with MH-40



Now, with MH-40, you can actually slow the growth of grasses of your roughs and you can reduce cuttings to as few as twice a season. Think what a saving this means in labor and equipment costs.

Order MH-40 from your local supplier today. Contact us if unable to locate source of supply.



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**Naugatuck Chemical Division
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producers of seed protectants, fungicides, miticides, insecticides, growth retardants, herbicides: Spergon, Phygon, Aramite, Synklor, MH, Alanap, Duraset.



HERE YOU SEE **HOW**
THE Greens Air
SPECIAL

aerifies compacted turf with bare minimum disturbance to putting green.

HERE YOU SEE **HOW**

aerified turf responds with a deep, vigorous root system vital to healthy putting greens.



Note in the top action photo, the clean cores ejected by tynes, moving down slides — and the freedom from disturbance to the putting green. On expertly maintained courses in every section of the country The Greens Air Special is proving its turf improvement benefits and its safety, ease and efficiency of operation. The tynes action is straight up-and-down—then the Greens Air automatically moves to the next position.

Precisely cuts and ejects cores from perforations of 1/2 in. diam., to depth of 3 in. or more, 2 ins. apart. 30,000 holes to 1,000 sq. ft. at rate of 5,000 sq. ft. in 2 hours.

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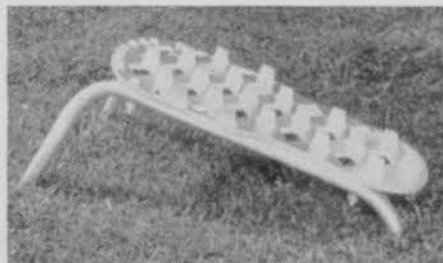
106 Seventh Avenue So. Hopkins, Minnesota

What's New

■ Products and Personalities

Spikleen—Spike Shoe Cleaner

A new item that should fill a definite need at tees and lockerroom entrances is being marketed this spring under the descriptive name



"Spikleen." The device, shaped like the sole of a shoe, is made of cast aluminum with 5/8 in. cleats positioned to permit passage of shoes while cleaning them and shoe soles. Perforations in plate permit drop-thru of dirt. Spikleens are mounted on legs of strong aluminum tubing with pointed ends and bent to assure installation of plate at comfortable angle in the turf. An aid to firmer footing on the tee Spikleens will put a stop to dirt tracking into the pro shop and lockerrooms. Prices and literature from makers: Spikleen Co., 10 Warren Rd., Maplewood, N. J.

Bowen & Hull 1957 Catalog Presents Wm. Joyce Shoes in Color

In a handsome, practical catalog just off the press, Bowen & Hull, Inc., 81 Masonic Place,

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★ SEND TODAY FOR LOW PRICES

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FLOOR MATS FOR EVERY PURPOSE

PREVENT ACCIDENTS

INSURE A SAFE, NON-SLIP FOOTING on smooth or wet floors or inclines even with spikes. Ideal around pools, in shower rooms, pro shops and locker rooms.

BEAUTIFY ENTRANCES grills and taprooms.

PROVIDE COMFORT UNDERFOOT

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REDUCE BREAKAGE when used in kitchens and in drainboards.

KEEP DIRT OUT

REDUCE CLEANING

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Pasadena, Cal., pictures its new models of Wm. Joyce golf and casual shoes in natural color, with description and prices appearing on the facing page. On heavy coated stock with durable cover, spiral bound, the "shoe style show in print" is designed for customer pass-around pro shop use as well as for pros' ready reference. Included is a page devoted to 12 different leather colors to guide golfers in selection of shoes to their individual color preferences.

Name Labels Stop Club Loss

Pros will note a slight change in the Wether-Pruf Name Labels this year. The widely-used club identification band is narrow in width yet provides ample space for club owner's name. Weather, scuff and dirt proof, and quickly applied to adhere tightly to the club shaft just below grip, the labels come 15 to a kit, 12 kits to a counter-card. The item has proved its merit in pro shop operations by protecting against mix-ups and losses on course and in club cleaning. Prices and literature from: S-C Products, Inc., 395 Ronan St., New Haven, Conn.

Brady with PGC

Mike Brady, widely known veteran pro, now is sales rep for Professional Golf Corp. First Flight line of clubs in Florida in the winter and Connecticut and Westchester County, N. Y., in summer.

CUT COSTS
FASTER WITH CAMPBELL'S GPRO-GREEN LIQUID FORMULATIONS

Write For Price List and Free Samples For Testing.

Now . . . lawns, flowers, shrubbery, fairways, golf greens can be greener, healthier, harder all summer with regular applications of Campbell's GPRO-GREEN. Goes to work instantly . . . feeds the plant not the soil. Easy to apply with any conventional sprayer. Saves work, time, and money on maintenance. "A little does so much." Apply weed killers, insecticides, fertilizer all in one operation. In 5, 20, and 55 gal. containers.



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