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ovation of grasses that don't stand up under Mid-Atlantic humidity in the summer. Eb Steiniger, who has had much success with Bermuda at Pine Valley, said that it requires high fertility for good coverage and that it must be frequently brushed to prevent thatch formation.

Weather and Wear

Speaking of the problems and accomplishments of turfmen in 1959, Charles K. Hallowell, USGA green section, pointed out that supts. were hard hit by weather and wear last year but they were able to pull out in most cases because they practiced smart aerification and judicious fertilization. Touching on poa, Hallowell said that one of the best ways to suppress it is with a slow acting nitrogen supply and spring and fall applications of potash at about 4 lbs. per 1,000 sq. ft. Verticutting to destroy blooming seeds and spring applications of arsenate of lead also were recommended.

Bob Moore of Aquatrol Corp., in explaining the purpose of wetting agents, said that their chief value is in reducing water tension, thus causing water to become more readily available for the root and plant structure. He pointed out that where they are used, disease and wilt are less prevalent.

O. J. Noer of Milwaukee Sewerage Commission reviewed many of the lessons that experience has taught turfmen. Among them is the fact that they had to learn to feed nutrients to the requirements of the grass plant and that timely fertilization is one of the best safeguards against weed invasion. Noer also dwelled upon the proper use of herbicides, ways of suppressing poa and the uses of lime.

Club Manager Speaks

Charles Smith, gen. mgr., Chevy Chase CC recommended that supts. keep plenty of records. "Committees love records; they make committees look good," Smith noted. He said there's a need of more interchange of information and coordination between club department heads and committee chairmen.

The Chevy Chase mgr. advised that on the days when committeemen are playing the supt. be in sight but out of ear range. "Post signs for the bad news; tell the good news personally," Smith counseled. He said that neatness in details is of immense importance in impressing members and guests. Smith suggested that supts. get acquainted with more members, adding, "To the man who hasn't met you, you are nobody."



Harold B. Harrison, Jr., son of the pro-supt. at Centre Hills CC, State College, Pa., was a second place winner in the biological experimental div. at a science fair held at Penn State University. He submitted a soil structure entry. Young Harrison, only 12, already is quite well versed in course construction and maintenance work.

Herb Graffis, GOLFDOM's Editor, in talking about the problems of golf's growth, said that the magnitude of today's 6000 golf clubs, and play that will run to about 90,000,000 rounds this year, makes golf big business and compels the first class supt. to be a first class businessman.

Seniors vs. Younger Men

Graffis referred to the great growth of senior golf as possibly coming into conflict with the needs of highly desirable young potential members who can't afford the private club's steep costs. He expressed the belief that the big increase in women's play is going to mean that women are going to hold more offices and head more committees at clubs. In many cases, he added, this might improve club business policies.

James Miller, University of Maryland, outlined the correct procedure in taking soil samples and told how samples are analysed at the U. of Maryland.

Miller described the workings of the major turf elements, nitrogen, phosphate and potash and the secondary and the trace elements as held and released for use in soils and fertilizers.

There was a million dollars' worth of information useful to course architects, contractors and people who pay the bills
(Continued on page 72)

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Garland Jones (1) and Raleigh CC pro, Agee Welch, admire the new Bermuda turf on the 9th green.

**Raleigh CC Was Lagging in
Switching to the New 328
Bermuda . . . Then Garland Jones
Went Into Action and Presto,
18 Greens Were Converted**

The Dynamic Mr. Jones

By **VERNE FLOYD**

Turf Consultant, Raleigh, N. C.

For four years now golf greens on courses of the mid-South have been steadily planted to the latest Bermuda hybrid, T-328. For one reason or another, many courses waited until 1959 for the change-over and still a good number will not convert to 328 until this year.

Of the courses changing from old seeded bermuda, one, Raleigh (N.C.) CC, which made the switch last summer, had as a guiding figure for this operation a person who we think should be introduced to other club officials and members — J. Garland Jones, pres.

First it should be understood that Jones spends more hours on a course than any person we know in this part of the country who is not employed by a golf club. His interest in golf and the improvement of courses has come about only in recent years. An executive in a large meat products firm, Jones spends an average of five hours per day (5 A.M. to 10 A.M.) in his office. To see a fellow who is able to devote so much of his time to sports, we wondered if he did some hunting since he lived among so many nimrods in Raleigh. When asked, he said, "Yes, used to hunt quite a bit but had to give it up — golf is a full-time job."

No Delay Here

Getting back to the changeover at Raleigh, I first talked to Jones over the phone late last June. He said he was interested in the quickest possible method of getting 328 on his greens and wanted to discuss it without delay. We met the next day and talked at length about methods of removing the thin stands of old Bermuda and planting the new.

It was decided that Jones and Pro Agee Welch would gas and plant the No. 1 green. This they did with a little help. The following week I went back to Raleigh CC to find Jones on the tractor ripping up the greens with a tiller. He said he was con-

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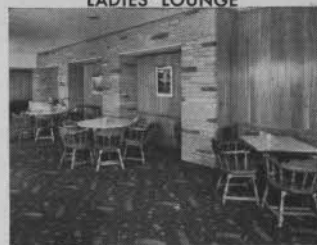
... see what 50 famous clubs
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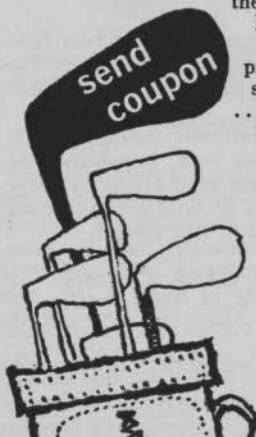


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Mrs. Jones, a golfer herself, lends a helpful hand by bringing breakfast to the Raleigh CC crew at six in the morning.

vinced the greens did not have enough sand and he was mixing and adding 30 cu. yds. average per green. In addition, he was adding five yds. of peat humus per green. The average green was about 5,500 sq. ft.

Methyl bromide was used to gas all 18 greens. Jones supervised work on nine, and to speed up the operation, a contractor was employed to gas the other nine. About 400 lbs. of 8-8-8 fertilizer was mixed into the top 4 ins. of each green. On nine greens 328 Bermuda stolons were shredded and broadcast over the loose soil bed at the rate of 10 bus. per 1000 sq. ft. Over the stolons was spread $\frac{1}{4}$ in. of topsoil, sand and peat. This was rolled in. On the other nine, stolons were broadcast and cut in and rolled with a planter.

Plenty of Water

Perfectionist Garland Jones saw to it that the newly planted greens did not want for water. During the first week, since it was not raining, all greens were hand watered several times during the daylight hours. This one operation, no doubt, was responsible for much of the rapid growth and high plant survival that followed.

Three weeks later some of the greens could have been played on. In four the greens could have been opened for play. But Jones didn't want to take any chances . . . and waited five or six weeks before opening. This did not work too much of a

hardship on the members as the nearby Carolina CC invited all Raleigh golfers to play their course during the change-over.

Worms Pay Visit

As had been the case several times before my phone rang early one Sunday morning. Real early, in fact! Yes, it was Mr. Jones. Without even saying hello, he shouted that something was eating away his greens. The same thing was happening to Jones as had happened to many a supt. who has had beautiful 328 one day only to see it all but vanish the next. Worms were literally eating away a very much relished food, 328.

But liberal applications of Chlordane and Dieldrin quickly put an end to the worm menace and the grass soon flourished again.

Jones, a leading left-side swinging golfer, believes he knows now, in addition to making sausage, quite a bit about the new Bermudagrass which is rapidly taking over where golf is played in this section.

New England GCSA Officers

Albert Allen has been elected pres. of the New England GCSA. Other officers are Narry Sperandio and Joe Butler, vps, William Ash, secy., and Arthur Cody, treas. Committeemen are Phil Cassidy, John Sperandio, Guy Tedesco and Homer Darling. Ray Brigham joins Mike O'Grady and Ted Swanson as trustees.

Kaddie Kart

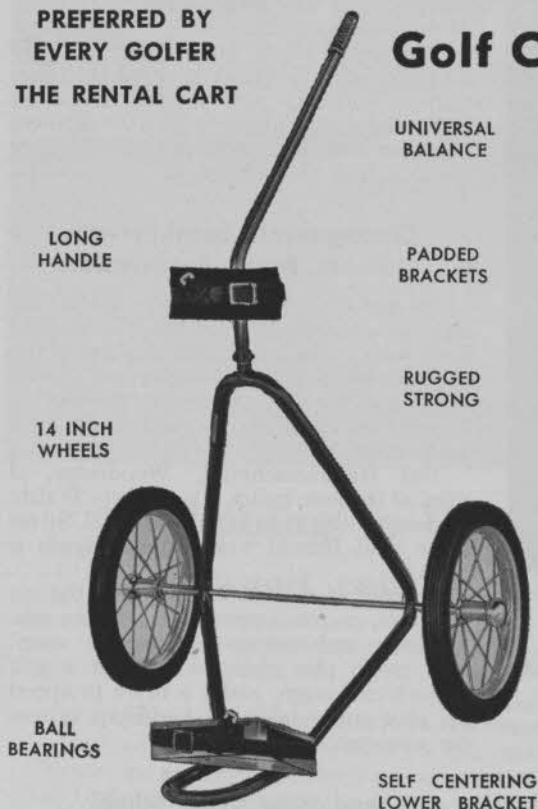
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Write for information — Rush your orders or telephone for quick action.

The wise club or pro that installs Kaddie Karts 100% has a ready public waiting to use this Kart. Wherever he goes, the golfer finds Kaddie Karts a mark of distinction at the best courses. That is why often when Kaddie Karts are substituted for other carts a jump of 50%, 75% or 100% in income has been recorded in a single week.

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Exterior and interior views of Point O' Woods.

Point O' Woods Golfers Move Into \$200,000 Clubhouse

Point O' Woods G & CC, Benton Harbor, Mich., formally opened its clubhouse for members on Nov. 7, two days after sports and society editors from newspapers in a 35-mile radius and radio sportscasters got a preview of the \$200,000 building. The clubhouse, built to the plans of Charles McKirashan of Ft. Lauderdale, Fla., has a large lobby, main lounge, men's bar and lounge, dining room, cocktail room and men's and women's lockerrooms, offices for club personnel and kitchen with built-in coolers. The building is designed so that four wings can be added without destroying architectural continuity.

The building's exterior is of buff brick with exposed cedar roof construction. It has a massive focal point gable with glass extending from top to ground level, a distance of 35 ft. The interior has a ceil-

ing of exposed cedar deck and cedar arches in natural wood finishes. Floors are carpeted throughout except in the lobby which leads to the three lounges and the dining room. The main lounge features a massive fireplace of masonry and copper construction.

Point O' Woods' course was designed by Robert Trent Jones and was opened last June. Its range is from 5,800 yds. (for women) to 7,230 yds. (championship). There are five water holes, an irrigation system spans the entire layout and exceptionally long tees give golfers the choice of three teeing areas.

The entire club area comprises 350 acres of land, much of it wooded. There remains sufficient land to form a real estate subdivision property of 100 or more one acre lots. Several homes already have been built in the subdivision.

Chicagoland Semi-Private Owners Form Association

Owners of semi-private clubs in the Chicago area have organized the Chicagoland Golf Assn., which is a combination of the original separate organizations of North, South and West club owners in the district. Twenty-six clubs are enrolled in the new association.

Ted Hammerschmidt, Woodridge, is pres. of the new group. Vp is Marty Walsh, Hickory Hills; Secy. is John Coghill, Silver Lake; and Harold Vial, Timber Trails is treas.

Purpose of the CGA is to study the tax situation, encroachment by real estate subdivisions and rising maintenance costs. The group also plans to conduct a golf etiquette campaign, make a drive to speed up play and establish a handicap system for semi-private players.

Send West Coast School Applications to Thompson

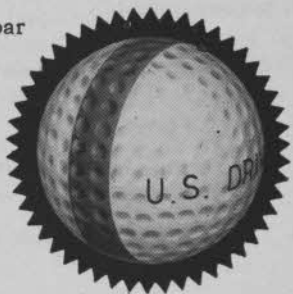
Applications for enrollment at the PGA West Coast Business School, to be held at the Ambassador Hotel, Los Angeles, Feb. 9-12, should be mailed to Jimmy Thompson, pro at Rancho GC in L.A. Special rates at the Ambassador have been arranged for those who plan to attend the school. There are no fees for the school. Completion of 95 per cent of this year's course counts as one year of apprenticeship toward a PGA Class A rating. Co-chmn. of the Business School are George Lake and Guy Bellitt.



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says George McAllister, Studio City Golf Center, Studio City, Calif.

“In addition to the range you see here, I own a three-par nine-hole course. Providing balls for this set-up used to cost me plenty. Then, about a year ago, I switched to U. S. Range Balls. They have already saved me real money. Besides being the longest-lasting range balls I’ve ever known, U. S. Range Balls are almost impossible to cut. When they get smeared or smudged, they wash right back to original color. My advice to all range operators who want to cut their costs the way I did is to use U. S. Range Balls.”



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"I used 'Tersan' OM on five greens this season... These greens have better color and disease resistance than those treated with other fungicides. I particularly like Du Pont 'Tersan' OM because it's an all-purpose control."

**Chester Mendenhall, Superintendent
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*Tom Burke, Jr., Professional (left),
Robert Anderson, Grounds Supt.*

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