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**GENUINE LEATHER GOLF GRIPS**

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## THE TERRA-TIRE

*Rigorous tests on all types of terrain under many different soil conditions give it a decided advantage over the conventional tire*

By **EDWARD EICKMANN**

General Manager, Aviation Products div.,  
Goodyear Tire & Rubber Co.

The Terra-Tire is the result of almost 10 years of development work. The Aviation Products div. of Goodyear has combined the high sidewall deflection principle of airplane tires with the ideas of extreme flexibility, large air volume at low pressure, and large ground contact area. The result is an axle loaded, axle driven tire that can operate at air inflation pressure as low as one lb. per sq. in.

Mobility on the course, without the tires rutting the soil, appears economically sound since it helps maintain the fairways and avoids well used paths.

Chart A (please turn page) shows how much greater is the volume of air in the Terra-Tire. The average golf car, loaded,

*This article is condensed from a speech made by Eickmann at the GCSA convention.*

will carry 300 to 400 lbs. per tire. It is easy to see that 300 lbs. on the 50 sq. ins. that touch the ground mean only 6 lbs. on each sq. in. as compared to the small ground contact area of the conventional tire. It is simple arithmetic to divide 300 lbs. by the sq. ins. and determine the increased weight on each sq. in. of grass that the higher pressure conventional tire puts down. Everyone has experienced a soft tire on his automobile and experienced high steering forces and high rolling resistance. It would be very logical to expect from this experience that the soft Terra-Tire would do the same, and you'd be correct, if you operated the Terra-Tire on concrete pavement.

### Off-Road Tire

Since the Terra-Tire is basically an "off-the-road" tire, let's look at it from a turf standpoint. Chart B shows the penetration of the 600-6 tire as compared to the Terra-Tire, both being properly inflated. It can now be seen that even the very small penetration of the conventional tire on firm sod means it is running up hill by

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Pro-Grip's washable glove — washing brings it back to bright and shining newness. Backed by Launder-Leather Institute. Available in a rainbow selection of 6 colors. Lightweight . . . table cut. Ask for Pro-Grip's No. 832-W.

Manufactured by C. M. Hill Co., Peoria, Illinois, available only through authorized distributors.



New medium-priced all-leather glove with button back — for maximum ease in putting on or taking off. A fine-fitting glove made from imported top quality Capeskin. Available in tan and cream. No. 300-B.



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(Top) The Terra-Tire successfully withstands the broken glass test. (Center) Nelson Monical, supt. of Portage CC, Akron, O., has installed the tires on a flatbed trailer he uses for hauling equipment and materials. (Below) This isn't recommended, but Goodyear people say car equipped with Terra-Tires can be parked on greens and collars without doing any damage to the turf.

the amount of this penetration. The wide area of the Terra-Tire keeps it entirely on top. Rolling resistance is now in favor of the Terra-Tire. The softer the ground the more favorable is the Terra-Tire advantage.

Our development work never ends. Our most recent test program was undertaken to secure factual golf car tire data. On the two golf cars provided by Bill Freund of Victor Electric-Car div., this test was

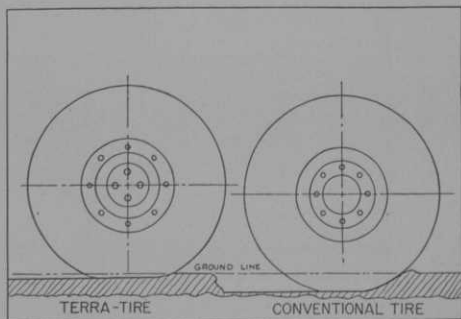


Chart A

started last Sept. and continued into Nov. One was equipped with Terra-Tires; the other with conventional tires. We were unable to test in all the conditions that might be encountered in North America

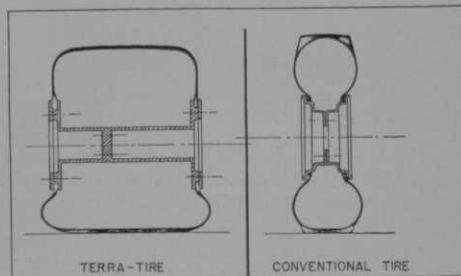
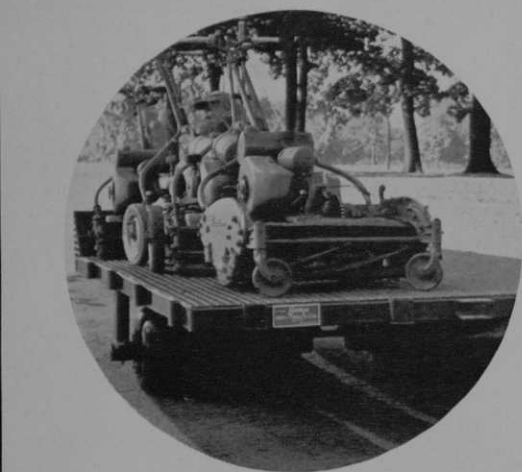


Chart B

but we were able to test in a sufficient number of representative soils to adequately cover the soil and turf conditions of average courses. We documented the tests with motion picture film. (Portions  
*(Continued on page 154)*)



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## Brennan Elected President of Club Managers

John T. Brennan, of the Birmingham (Mich.) CC was elected pres. of the Club Managers Association at its 34th annual conference in Denver's Denver-Hilton in January. Other officers are: John W. Bennett, San Francisco Commercial Club, vp, and John G. Outland, Dallas CC, sec-treas.

Dr. Carl S. Winters of General Motors



John T. Brennan



John W. Bennett

Corp., keynoted the Association's three-day educational program with an address on "Opportunities Unlimited". Other speakers included Dr. Joseph W. Thompson, Michigan State U.; Willard E. Brown, Judd & Detweiler; Henry T. Maschal, CPA, Harris, Kerr, Forster Company; Fred F. Furns, Price-Waterhouse; Joseph H. Nolin, CPA, Horwath & Horwath; Professor Matthew Bernatsky, Cornell University; Thomas C. McGuffey, mgr. of the Missouri AC and past pres. of CMAA; and Arthur W. Dana, internationally known food operations consultant.

### Eight Directors Named

Dirs. elected to the CMAA national board: Richard E. Daley, Army, Navy CC, Arlington, Va.; Robert M. Dorion, Scioto CC, Columbus, O.; Charles E. Errington, The Beach Club, Santa Monica, Calif.; Frederic H. Hollister, Scarsdale CC, Hartsdale, N. Y.; Robert E. Yoxall, CC of Coral Gables, Fla.; Clem Young, Cleveland AC; Everett L. Woxberg, Evanston GC, Skokie,

Ill.; William J. Hodges, Paradise Valley CC, Scottsdale, Ariz.

CMAA's membership has gone over the 2,000 mark, it was announced at the Denver meeting.

## 700 Persons Attend GCSA's Annual Convention Banquet

More than 700 persons attended the GCSA's annual banquet which was held in main ballroom of the Royal York Hotel. James E. Thomas, supt. at Army Navy CC, Arlington, Va., and outgoing pres. of the GCSA, was the banquet master. He introduced such notables as Phil Farley of the Royal Canadian GA; John Brennan, new pres. of the Club Managers' Assn.; Lou Strong, pres. of the American PGA; Jack McLaughlin, pres. of the Canadian PGA; J. A. DeFrance, prof. emeritus, Rhode Island University; and John MacGregor, veteran GCSA member and holder of the ninth membership card issued by the organization. Contributions to the GCSA Scholarship and Research Fund were made during the evening by J. T. Manley and William Marclay on the behalf of Toro and Jacobsen-Worthington U. S. and Canadian dealers, respectively. At the conclusion of the banquet, Thomas passed the gavel to his successor, L. E. Lambert.

Entertainment, made possible through the show exhibitors, featured Moxie Whitney and his orchestra, Charles Camilleri, accordion virtuoso, several singers and a dance team, Joe Murphy, a comedian, and Ellis McLintock, Canada's No. 1 trumpeter.

## Excessively Dry Winter

Even though the East and New England states had more snow than could be carted away this winter, the Midwest was facing a parched spring because of sub-normal precipitation from Nov. through Feb. The Chicagoland area had only 14 per cent of normal precipitation in January and only a little more than 50 per cent in both Nov. and Dec. The first three weeks of Feb. were abnormally warm and there was little rain or snowfall. A few supts. in Iowa reported that they distributed water from tanks in an effort to bring up moisture content of greens.

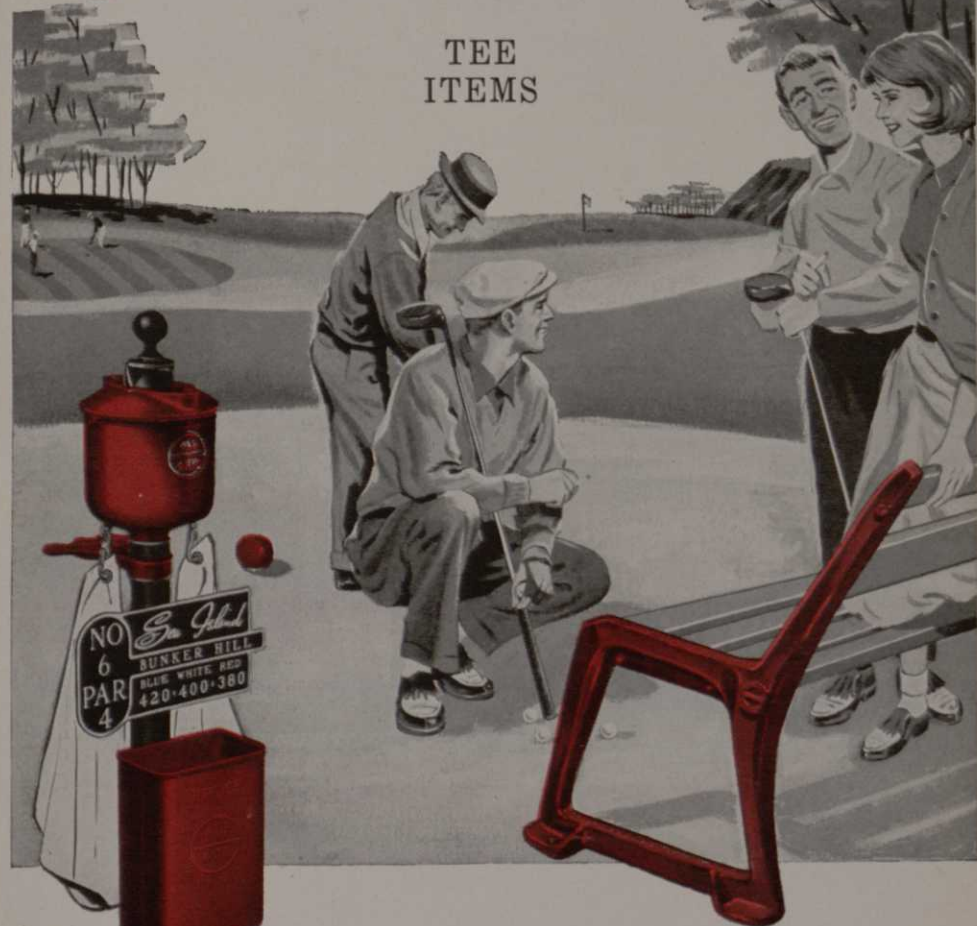
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Joe Carr

John G. Clock



Dr. John Monteith, Jr.

Wm. C. Chapin

## Carr Gets Jones' Award; First Turf Citation to Monteith

Joseph B. Carr of Ireland became the first citizen of a foreign country to receive the USGA's Bob Jones award. It was made at the association's annual meeting held in late January in New York. The award, "for distinguished service in golf," was made by William Ward Forshay, chmn. of the Jones committee, and John G. Clock, who was elected to his second term as USGA pres.

Carr, a 38-year old clothing manufacturer from Sutton, near Dublin, has been a leading British amateur player for several years. In 1960 he became the third man in history to win the British Amateur championship for the third time. He won the title for the first time in 1953 and repeated in 1958. Carr first came into prominence in 1946 when he won the Irish Open Amateur, a victory he repeated on three other occasions. Since 1947 he has been a member of every British Walker Cup team and he has played with Great Britain and Ireland in two World Amateur team championships.

Other Jones award winners have been Francis D. Ouimet, William C. Campbell, the late Mildred (Babe) Zaharias, Margaret Curtis, the late Findlay S. Douglas and Charles (Chick) Evans.

• • •

The first USGA green section turf award went to Dr. John Monteith, Jr., of Colorado Springs, Colo. It was presented by Clock and William C. Chapin, Roches-

ter, N. Y., section chmn., at the education meeting of the green section, also held in late January.

### On Air Academy Staff

Dr. Monteith, now on the staff of the Air Force Academy and a former employee of the Agriculture Dept., was in charge of the USGA green section's program of advisory and education service and research from 1928 to 1942. He developed the first effective chemical control of several destructive turf diseases and the remedies still are widely used. He also supervised research programs on grasses that still are in general use — Merion blue and the Arlington, Congressional, Cohansey and Toronto strains of creeping bent.

Dr. Monteith received his B. S. and Masters degrees at Rutgers University and Ph. D. from the University of Wisconsin. In World War II received a "meritorious civilian service" award from the War Dept. for his work in erosion and dust control at airfields and other army installations.

### 1963 Open at Brookline

Country Club of Brookline, Mass., will be the site of the 1963 USGA Open. It will be played June 20-23. The tournament will coincide with the 50th anniversary of one of golf's most memorable events, Francis Ouimet's victory in the 1913 Open, also played at Brookline. The Country Club, one of the five charter members in the USGA, has been the site of seven other USGA Championships as well as the 1932 Walker Cup competition.





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**FLEET-OPERATOR . . .** Bob Howell, Golf Mart, Birmingham, Mich., prefers VICTORS over all others. (The clubs he leases to also prefer VICTORS.)



**PROFESSIONAL . . .** Ed Carman, Buena Vista CC, Vineland, N.J., prefers VICTORS over all others. (Geo. Downing, Pres., is enthusiastic over Ed's VICTORS.)



**GOLFER . . .** Gene Sarazen, one of the greatest golfers of all time, prefers VICTORS over all others.

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# Hills Become Ramps So Cars Can Roll At Hyde Park

By **DON LIKES**

Supt., Hyde Park CC, Cincinnati, O.

Can you picture playing 18 holes on a course where it is necessary to cross 14 ramps? That is how rugged the terrain is at Hyde Park CC, Cincinnati, O. Yet, with its many century old beech, oak, and tulip poplar trees, it presents one of the most beautiful landscapes in southern Ohio.

First, let me explain what we call a ramp. It is an earth-fill replacing a bridge that spans a deep gorge, or a roadway constructed on a steep hillside which previously was impossible for any vehicle to negotiate.

We were the last course in the city to permit use of cars. To get Hyde Park ready for cars it was estimated that \$25,000 worth of ramp construction was necessary. We had seven long high wooden foot bridges to replace with dirt ramps. Also, we had at least five steep hills that were impossible to climb with any vehicle.

All this new construction was in hand maintenance areas. By building ramps we eliminated about 90 per cent of the hand maintenance work. Thus hundreds of man-hours of labor per year have been saved.

Before construction started, an architect made a thorough survey of the course. He proposed a type of ramp of minimum construction cost, but it didn't eliminate enough hand maintenance. We were fortunate in having men on our grounds committee who apparently had a talent for designing golf car roadways. They, along with myself, made several alterations in the architect's specifications and some fine ramps were built. At the same

Curves in golf car roads and ramps at Hyde Park were put there by design. Efforts also were made to keep roads as far from line of play as possible. In circle are converging roadways and at bottom you see a ramp when it was under construction.

