THE RENTAL CART
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EVERY GOLFER

16 INCH
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BRACKETS

RUGGED
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BALL
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LOWER BRACKET

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It is time to discard the inefficient rental cart. Old, obsolete baby carriage type handles and reconstructed folded carts and other make-shifts leach away your profits.

Kaddie Kart is the professional cart for rugged hard use. It takes any beating, and abuse. Is so well made it can stand out in open weather year after year.

It is useless to steal, so theft of Kaddie Karts is negligible.

Kaddie Kart has had long years of proven success on America's foremost golf clubs - both public and private.

Don't gamble. Kaddie Kart has never known failure, has never been surpassed in service, has never had to make an excuse.

When once used it stays. Many carts sold sixteen years ago are still doing daily duty. (Price in 1941 was $22.60.) Today price is $16.70 less cash discounts.

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Please rush information on buying □ leasing □ Kaddie Karts.
Please ship ______ Kaddie Karts at once.

Name
Address
City State
Club Position
200 Attend Penn State Turf Conference

By GEORGE A. VAN HORN

Pennsylvania State University's 26th annual turfgrass conference, Feb. 18-21 was attended by nearly 200 course supt., park supervisors, equipment and supply dealers and educators. Ten states and Canada were represented.

Highlight of the conference was a panel on record keeping for golf courses. Moderator was C. K. Hallowell, Mid-Atlantic Dir. of the USGA green section.

Course construction records were discussed by Warren Bidwell, supt. of Sea-view CC of Absecon, N. J. Day-to-day operation records were discussed by Marshall E. Farnham, supt. of Philadelphia CC.

Panelist on labor records was Walter J. Leix, Shanopin CC of Pittsburgh. Harry J. Drennan of Buck Hill GC of Buck Hill Falls, Pa., discussed equipment inventories. Budget topics were handled by E. G. Jacobs of South Hills CC of Pittsburgh. Fred V. Grau talked on climatic limitations of turfgrass.

Latest news on chemical weed control was the topic of J. E. Gallagher of the American Chemical Paint Co., Ambler, Pa.

A case history of turfgrass management problems spanning a quarter-century was presented by O. J. Noer. Effects of compaction, or poor soil texture and structure on physical condition, were described by R. B. Alderfer, head of the soils department of Rutgers University. Thomas Mascaro of West Point Products Co. discussed "Growing Turfgrass the Hard Way."

A new winter course in turfgrass management was announced by Penn State. The training will cover 16 weeks, from Nov. 4 to Jan. 11 and from Feb 3 to March 29. There is also a six months placement train-
In a tournament only one wins! In golf cars one is superior...it’s VICTOR! Only VICTOR gives automotive style and colors plus the quality of all new above capacity materials and the master craftsmanship of VICTOR personnel.

The larger, longer VICTOR has a torsion-type frame for greater safety and golf-course engineered weight distribution (25% on front, 75% on rear) to eliminate front wheel scuffing and rear wheel spinning. It treats your golf course tenderly. Roomy arm-chair-comfort seats with leg room for largest golfers. Bag wells cradle clubs like an experienced caddy. Self-centering steering! You drive effortlessly from either side. Foot controls like newest automobiles. You ride relaxed, making each shot with the same calm energy you had on the first tee.

Only VICTOR gives you friction-free DIRECT DRIVE! No chains! No belts! No wearing tension on motor and pinion bearings. Two-wheel differential drive. Fairway approved, cushion balloon tires. Hinged battery deck and lift-up body for easiest serviceability.

No wonder VICTOR is first choice of discriminating golfers, Pros and fleet operators. Buy VICTOR with confidence!

MODEL 24. Deluxe 4-battery. Super-efficient. 24 volt Dyna-Power, low-current motor. Climbs steepest hills (up to 45 degrees) with power to spare. Endurance to outdistance ordinary cars. Perfect for those needing 23 to 27 holes on mountainous courses or up to 45 holes of “down-the-middle” golfing on flat courses with a single charge. Recommended for all private owners and for rental operators who want 4-battery economy. Golf-course proved since 1953.

MODEL 36. Super-Deluxe 6-battery. Newest Dyna-Power, low-current 36 volt motor. Climbs like Model 24, but has reserve capacity to go almost twice as far on a single charge. Best for longest, most mountainous courses...players use cars to hunt lost balls or golfers who ride to and from their homes. Best for rental fleets, Pros, golf course superintendents, marshals, and whenever exceptional distance on a single charge is required.

A few choice Direct-Factory Sales-Service-Rental dealerships open!

Ask your PRO for specification and price sheets! If he can’t supply them...VICTOR will...PROMPTLY!

Special Fleet Quotations to Country Clubs

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April, 1957
ing period where the trainee is employed in a specialized turfgrass position. A second winter of 16 weeks training completes the course.

High school graduates, 16 years of age or older, are eligible for enrollment. Interested persons should write to the Director of Short Courses, College of Agriculture, Pennsylvania State University, University Park, Pa.

**Cornell Stages Tenth Annual Turf Conference**

A typically receptive audience was on hand for the tenth annual Cornell Turf Conference held in Ithaca, N.Y., Feb. 25-28. The event, sponsored by the N.Y. State Turf Assn. and N.Y. State College of Agriculture, was marked by speeches and panel sessions directed almost exclusively toward practical solutions of everyday problems in turf management. John Cornman of Cornell University's Turf Research Dept. was the meeting chairman.


**Michigan Supts. Alerted to Need for Insect Control, Water Conservation**

Two important new problems that came under discussion during proceedings at the Michigan State Turf Conference on Mar. 14-15, highlighted the 27th annual meeting sponsored by that school, C. A. Boyer of State's dept. of Plant Industry alerted supt.s attending the conference to the danger of exporting nematodes and harmful insects to non-infested areas through transportation of turf, and added that some regulatory laws may have to be enacted to stop the practice. Boyer called upon supt.s, for complete cooperation in helping to prevent the spread of these parasites.

Water conservation laws, it was pointed out by Norman Billings of the State Water Resources Commission, may prove to be a major problem for irrigated courses in the state. Billings asked supt.s, for their help in conserving water wherever possible so that it won't be necessary for his department to seek legislation that will restrict distribution to volume consumers.

During the conference it was announced that the long-sought Michigan Turfgrass Foundation has been established. Officers of the new organization include Bruce Mathews, pres.; Clarence Wolfson, vp; and James Tyson, Michigan State agronomist, who did a great deal of work in getting the Foundation set up, says. Directors are: Mathews, Wolfson, Don Ross, Horace Godwin, Harold Peck, William Milne, William Smith, Norm Hallnick and George Frieskorn.

Other speakers who were heard at the conference included Tyson, Buford Grigsby, Ray Huston, John Kiernan, Paul A. Miller, Kenyon T. Payne and O. J. Noer.

**Honolulu N-M Club Holds First Field Day**

Navy-Marine GC, Honolulu, held its first field day late in February with Joe Mayo, supt., and Maj. Frederick Bove, green chairman, serving as host to delegates who came from courses in the Honolulu area. Speakers included Henry Ching and Louis Maurina, representing the Pacific Chemical and Fertilizer Co., and Edward Hosaka, University of Hawaii Exp. Station agronomist. One of the highlights of the field day was the tour of the Navy-Marine course where Mayo is carrying on extensive experiments with various grasses and chemicals.

**Exchange Brought Progress**

In years past greenkeepers were very secretive about their work. There was no progress whatsoever in the golf turf field until men formed associations such as yours and freely exchanged knowledge and information.

Sherrill Sherman, widely known amateur contestant, club and assn. official, at joint meeting of Central New York and Northeastern New York GCSAs.

---

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GOLF CLUB CARPET

CAN SAVE YOU MONEY!
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New “Golf Club” Herald shows what it is doing for clubs everywhere!

Here’s a hot-off-the-press story of new beauty...decorative appeal...luxurious appearance...and how you get these in abundance with Beautiful Holmes Golf Club Carpet. This folder also illustrates how this famous Quality 282 wool Wilton is specifically woven to withstand the wear and tear of spiked golf shoes, and give you the lowered maintenance cost that will help keep your club operating expenses down.

SEND COUPON

and learn what clubs throughout the country have found out! On every page of this new folder you will see how clubs are benefitting by putting proved Quality 282 in pro shops, locker rooms, lounges...throughout! Send for your copy now and see!

Archibald Holmes & Son
ERIE AVENUE AND K STREET, PHILA. 24, PA.

Please rush new “Golf Club” Herald showing installations and listing of 50 well-known clubs that have installed Beautiful Holmes Quality 282.

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CLUB
ADDRESS ZONE STATE

NOW IN OUR SECOND CENTURY OF FINE CARPET WEAVING

April, 1957
wherever golf is played...

Professionals know that PRO-GRIP head covers are preferred for their distinctive styling, wide range of models, colors and prices. These are only a few of the many PRO-GRIP head cover styles available for the 1957 season. Ask your distributor for information on the complete line.

No. 66-C—It’s NEW, and made from GLUVELK, top quality cow-hide specially tanned to make it soft, pliable and water-proof. New contour design with white welt trim. Available in six popular color combinations.

No. 52-P—for the economy-minded golfer. Low in price, yet made with genuine Skinner’s Tackle Twill with leather numerals. Water repellant.

No. W-44-C—famous “War-Mup” head cover used and recommended by leading playing pros. A snap of the strap around any wood makes it a weighted training club. Weights are removable. Fine imported Capeskin...contour construction. Single weighted covers also available. Wide color selection.

PRO-GRIP Club Head Covers, Golf Gloves and accessories are manufactured by C. M. Hill Co., Peoria, Illinois, and are available only through authorized distributors.
PGA Winter School Completes Term

Clinics and seminars held at PGA National Golf Club this past winter drew an estimated attendance of 1100 professionals and assistants.

Indoor school sessions, which have been held in the clubhouse, will be conducted in a new building next year. It will house the classroom, motion and still picture projection equipment, club and ball testing devices and a model clubmaking and repair bench.

Clinics were conducted by John Watson, South Bend (Ind.) CC pro and pres., PGA Seniors, on the subjects of “Experiences with the Golf Swing”; Chandler Harper, former PGA champion, on “Control shots in Golf”; Dr. Martin Griffin, professor of psychology, University of Tampa, and Richard Healy and Gordon S. Cook of Bell and Howell, motion picture equipment manufacturer, on “Visual Aids in Education.” Dr. Griffin staged interesting demonstrations of mental focusing on shot-making details and on relaxing, hypnotizing several professionals. A number of professionals participated in a clinic on group instruction.

The Friday night seminars brought forth intensely interesting discussions of instruction and playing technique. They were highlighted by Frank Walsh’s comment on his motion and stereo pictures of notable players.

Irv Schloss and John Mahoney, chmn, and vice-chmn, respectively, of the Dunedin teaching and educational committee, Har- old Sargent, chmn., teaching committee, and Charles Congden, chmn., educational committee, worked out the program schedule that paid handsome return to those attending the sessions.

<table>
<thead>
<tr>
<th>Tournament Winners</th>
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<tbody>
<tr>
<td><strong>March</strong></td>
</tr>
<tr>
<td><strong>Men</strong></td>
</tr>
<tr>
<td>Baton Rouge Open - Jimmy Demaret 278</td>
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<tr>
<td>Mexican National Open - Bob Rosburg 272</td>
</tr>
<tr>
<td>Pensacola Open - Art Wall, Jr.</td>
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<tr>
<td>St. Petersburg Open - Pete Cooper 269</td>
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<tr>
<td>Gulf Coast Open - Dick Metz 276</td>
</tr>
<tr>
<td>Miami Beach Open - Al Balding 137</td>
</tr>
<tr>
<td>Azalea Open - Arnold Palmer 232</td>
</tr>
<tr>
<td><strong>Women</strong></td>
</tr>
<tr>
<td>Jacksonville Open - Mickey Wright 295</td>
</tr>
<tr>
<td>Florida East Coast Amateur - Barbara Romack defeated Ann Middlemass, 5 and 4</td>
</tr>
<tr>
<td>Titleholders - Patty Berg 296</td>
</tr>
<tr>
<td>North &amp; South Amateur - Barbara McIntire defeated Ann C. Johnstone, 3 and 2</td>
</tr>
</tbody>
</table>
National Golf Day Set for June 8

National Golf Day will take place in 1957 for the 6th consecutive year on Saturday, June 8, according to Harry Moffitt, pres. of Professional Golfers' Association of America, sponsor of National Golf Day. On that day, as in the past, winners of the USGA Open — Men's and Women's — (Continued on page 110)

NATIONAL GOLF FUND

Analysis of Contributions 1952 Through December 31, 1956, Inclusive

<table>
<thead>
<tr>
<th>Golf Activities</th>
<th>1952-53 Year</th>
<th>1953-54 Year</th>
<th>1954-55 Year</th>
<th>1955-56 Year</th>
<th>1956-57 Year</th>
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<td>Caddie Scholarship Programs</td>
<td>$1500.00</td>
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<td>Turf Research &amp; Education</td>
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<td>U. S. Blind Golfers Association</td>
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<td>Middle Atlantic Blind Golf Assoc.</td>
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<td>2000.00</td>
<td>—</td>
<td>—</td>
<td>3000.00</td>
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<td>—</td>
<td>2000.00</td>
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<td>$68200.00</td>
<td>$93330.00</td>
<td>$63000.00</td>
<td>$313530.00</td>
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OTHER

United Service Organizations, Inc. $10025.50 $54501.75 $66017.40 $ 161.00 $  — $160705.65
American National Red Cross       — — — — 63347.48 — 63347.48
Babe Didrickson Zaharias Fund      — — — 1583.39 1000.00 2583.39
Institute for the Crippled, Disabled — — — 1583.40 — 1583.40
U. S. Olympic Comm.               — — — 1000.00 — 1000.00
Total Other                       $10025.50 $54501.75 $66017.40 $67675.27 $ 1000.00 $229219.92
Grand Total                       $60025.50 $123501.75 $134217.40 $161005.27 $64000.00 $542749.92

78 Golfdom
The secret is INSIDE!

The First Flight POWER CENTER Golf Ball was inspired by modern aircraft design. Speed and stability of airplanes were greatly increased by concentrating as much weight as possible in the center.

First Flight has achieved the same result with the steel POWER CENTER which is FOUR TIMES AS HEAVY as any other center the same size. This stabilizes the flight of the ball, reduces air resistance, increases accuracy and distance. This will lower your score!
Reports on Research from Across The Nation

Technical Speeches at GCSA Meeting in Louisville Point to Progress That's Being Made in Lab and Field

Golf's Growth Calls for Steady Advance in Research

By WILLIAM H. BENGELYFIELD
Western Dir., USGA Green Section

Mainly due to overcrowded conditions, several Western courses reported over 10,000 rounds of golf played every month during the summer of 1956. This is a lot of golf and presents the supt. with a multitude of problems. He is looking to colleges and other agencies for the solutions to these problems through research.

In 1956 research workers at Texas A&M and UCLA came up with data on soil mixtures for putting greens that will minimize compaction. The 85 per cent coarse sand, 11/2 per cent organic matter, and 7 1/2 per cent clay particle was the No. 1 research contribution to Western courses in 1956. Many experimental greens were established using this formula.

What about the grasses? Merion performed outstandingly on tees in the Northwest. It came through the severe winter of 1955-56 much better than any other grass. Alta and Kentucky 31 fescue provided good turf for roughs in the desert as well as in humid areas.

Of the bents, new greens of Congressional, Arlington and Congressional, Cohansey, Collins, Toronto and Old Orchard, were the leading creeping bents.

Pennlu is a stolon bent and Penncross is a seeded bent, both having been developed by H. B. Musser of Penn State. They are now being carefully studied under playing conditions to determine if they are equal or superior to other improved putting green bents.

The Bermudas, developed in Florida and at Tifton, Ga., showed how important it is to continually carry on research work in developing better strains of grasses. Tifgreen shows promise and is being thoroughly tested by members of the Tidewater Turfgrass Assn. U-3 Bermuda, after careful testing, is being grown on tees and fairways.

Merion, released more than six years ago, is coming into its own more and more each year. It is a superior grass but has limitations that must be determined by those using it.

Courses Are Trial Plots for Laboratory Findings

By CHARLES K. HALLOWELL
Mid-Atlantic Dir., USGA Green Section

It is normal that there is a preparatory step before the research findings become standard practices on courses. Trial plots or field demonstrations constitute this step. These convince if the new is practical. Demonstrations often show an improved strain of grass growing alongside a strain long in use, or trial applications of herbicides, fungicides or insecticides may determine their action on grasses.

Development of better putting grasses on trial greens by John Monteith, formerly with the green section, and a number of golf course supt.s., showed that Arlington, Congressional, Cohansey, Collins, Toronto and Old Orchard, were the leading creeping bents.

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Story Behind Aeration

Aeration by power-operated tools called for studying new management methods. First, facts were assembled by supt.s. getting together and pooling their experiences. Then in 1947, '48 and '49 a summary of the findings of members of the Philadelphia GCSA on how the aerifier assisted in reducing soil compaction and in aiding water and plant