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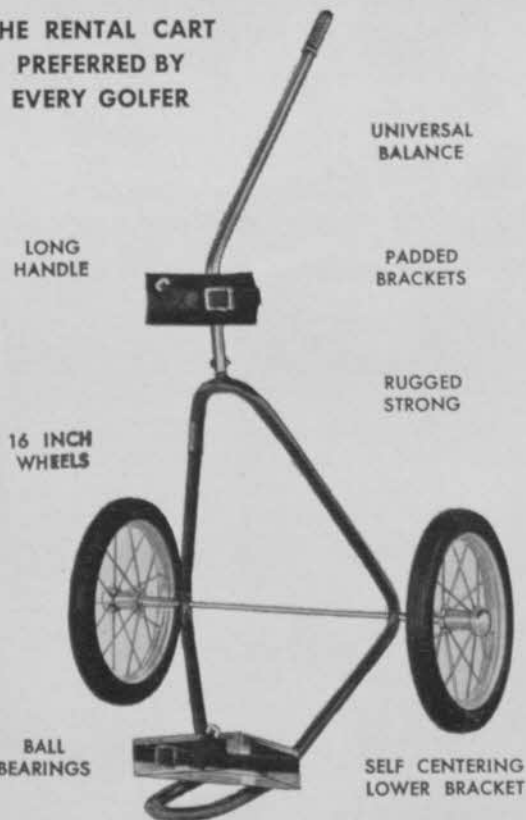
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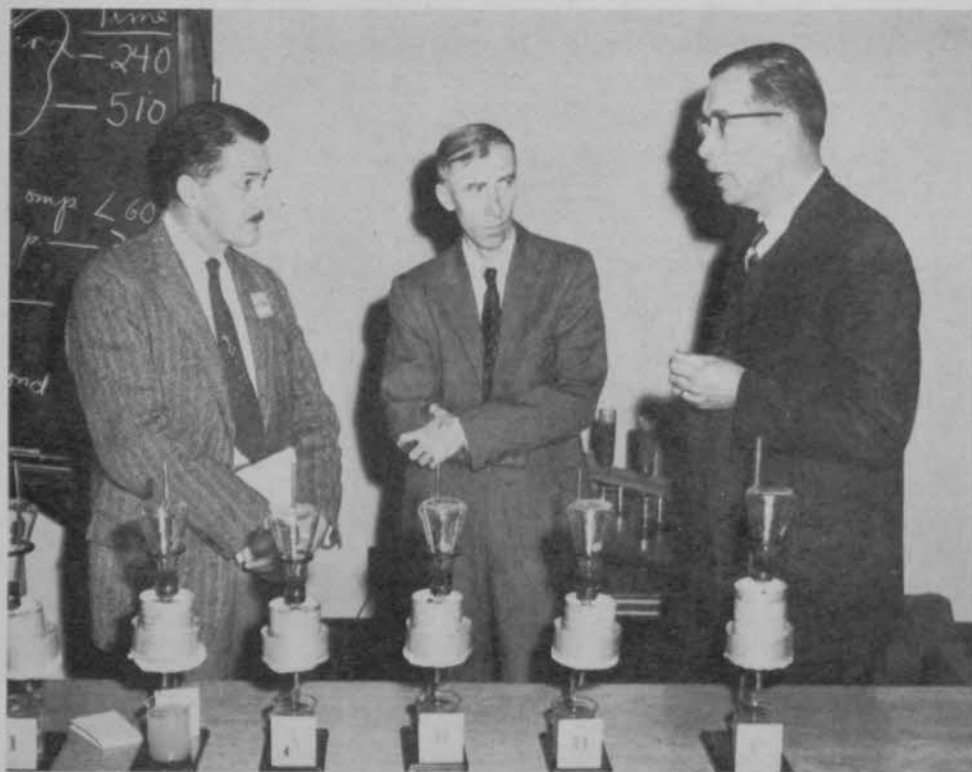
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200 Attend Penn State Turf Conference



By GEORGE A. VAN HORN

Pennsylvania State University's 26th annual turfgrass conference, Feb. 18-21 was attended by nearly 200 course supts., 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.

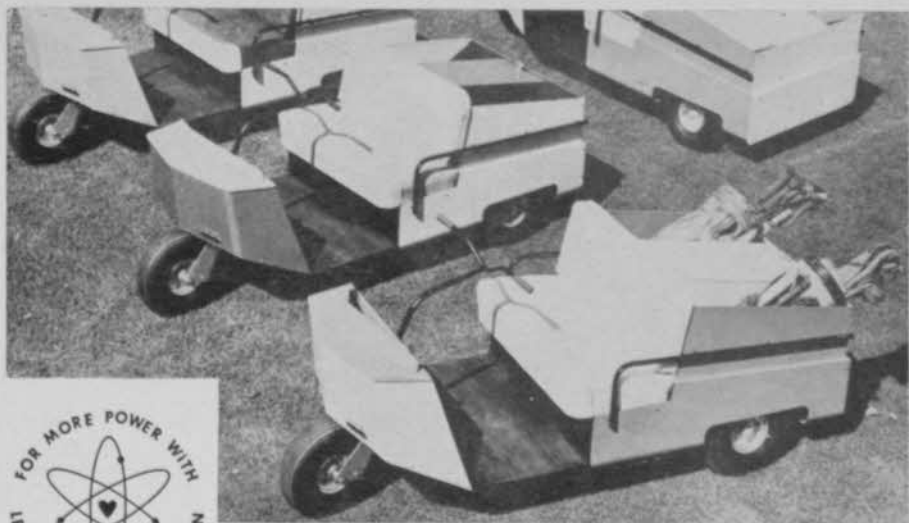
Latest news on chemical weed control

Ability of soil to absorb water is discussed at Pennsylvania State University Conference by Fred V. Grau (1), of Nitroform Chemicals, Inc., Louis T. Kardos, (center), professor of soil technology at Penn State and Theodore Westlake, Elks CC of Apollo, Pa. Equipment in foreground shows how loose soil lets water seep through faster than compacted soil. Kardos, who presented demonstration, used various proportions of sand, soil and peat moss.

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-



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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 chmn.

Speakers and their subjects included: J. F. Seeley, "What's Ahead for N.Y. Turf;" J. R. Watson, Jr., "Soil Modification Under Established Turf;" J. G. Mathysse, "Turf Insect Control;" H. B. Couch, "Control of Bluegrass and Fescue Diseases;" J. A. DeFrance, "Turf Grasses and Mixtures;" A. J. Wisniewski, "Combinations of Cool- and Warm- Season Grasses;" O. J. Noer, "Maintenance on the Move;" F. V. Juska, "Research in My Experience;" C. K. Mruk, "Urea-Formaldehyde Materials for Fertilization;" J. A. Jagschitz, "Stabilizing Sand with Vegetation;" A. M. Radko, "Turf Highlights of '56;" and E. F. Gamin, "Building Small Lawns on A Large Scale."

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 supts. 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 supts. 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 supts. 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 Wolfrom, vp; and James Tyson, Michigan State agronomist, who did a great deal of work in getting the Foundation set up. secy. Directors are: Mathews, Wolfrom, 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 chmn., serving as hosts 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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Portion of the pros at Dunedin attending clinic on "Visual Aids in Teaching."

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, Harold Sargent, chmn., teaching committee, and Charles Congden, chmn., educational committee, worked out the program schedule that paid handsome return to those attending the sessions.

Tournament Winners

March Men

Baton Rouge Open — Jimmy Demaret 278
 Mexican National Open — Bob Rosburg 272
 Pensacola Open — Art Wall, Jr.
 St. Petersburg Open — Pete Cooper 269
 Gulf Coast Open — Dick Metz 276
 Miami Beach Open — Al Balding 137
 Azalea Open — Arnold Palmer 232

Women

Jacksonville Open — Mickey Wright 295
 Florida East Coast Amateur — Barbara Romack defeated Ann Middlemass, 5 and 4
 Titleholders — Patty Berg 296
 North & South Amateur — Barbara McIntire defeated Ann C. Johnstone, 3 and 2

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

Golf Activities	1952-53 Year	1953-54 Year	1954-55 Year	1955-56 Year	1956-57 Year	Total
Caddie Scholarship Programs	\$1500.00	\$25000.00	\$24800.00	\$39830.00	\$27500.00	\$118630.00
Turf Research & Education	3000.00	10000.00	10700.00	15000.00	9000.00	47700.00
Jaycee War Memorial Fund	3000.00	11000.00	9000.00	8000.00	7000.00	38000.00
PGA Educational Fund	4500.00	—	6000.00	12000.00	7000.00	29500.00
PGA Relief Fund	4000.00	9600.00	3700.00	3000.00	1000.00	21300.00
PGA Benevolent Fund	1000.00	6400.00	3000.00	3000.00	1000.00	14400.00
Possibilities Unlimited	—	2000.00	4000.00	5500.00	5000.00	16500.00
American Women's Voluntary Services	3000.00	3000.00	3000.00	2000.00	1000.00	12000.00
U. S. Blind Golfers Association	—	1000.00	2000.00	3000.00	2500.00	8500.00
Middle Atlantic Blind Golf Assoc.	—	1000.00	2000.00	—	—	3000.00
United Voluntary Services	—	—	—	2000.00	2000.00	4000.00
Total Golf Activ.	\$20000.00	\$69000.00	\$68200.00	\$93330.00	\$63000.00	\$313530.00

OTHER

United Service Organizations, Inc.	\$40025.50	\$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	\$40025.50	\$54501.75	\$66017.40	\$67675.27	\$ 1000.00	\$229219.92
Grand Total	\$60025.50	\$123501.75	\$134217.40	\$161005.27	\$64000.00	\$542749.92

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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. BENGEEFIELD

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, 1 1/2 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 fescues 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 and Pennlu, were established last year. From early observations, all seemed to be an improvement over Seaside. Elmer Border, supt. at Olympic CC in San Francisco, had very good results in plugging Congressional into poa annua greens. Bill Beresford's bent selection, called Los Angeles CC bent, performed well on his course.

Seed of U-3 Bermudagrass received considerable publicity last year but in plot trials it was disappointing. Dr. V. Youngner of UCLA commented that in tests made at his station seeded plants were extremely variable and definitely not U-3 Bermuda.

In the fertilizer field a new material containing approximately 39 per cent potassium was introduced by a Los Angeles ceramic firm. The potassium is slowly released and the product reacts much like Urea-Formaldehyde materials. It may find a real place on light sandy soils, under heavy irrigation.

Weed control is one of the West's weakest

points from the research standpoint. Kikuyugrass, English daisies, Dallisgrass, and oxalis are major problems.

With golf enjoying such tremendous growth, we in the turf business must continue, indeed increase, our research activities if we are to have any hope of maintaining even present standards.

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 supts., showed that Arlington, 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-c 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.

Story Behind Aeration

Aeration by power-operated tools called for studying new management methods. First, facts were assembled by supts. 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