

MARCH • 1949

Greekeepers Contribute to Golf Progress at LA Meet

NATIONAL GREENKEEPING SUPER-INTENDENTS ASSOCIATION ELECTS NEW OFFICIALS

At its 20th annual meeting, Los Angeles, Feb. 7-11, delegates of the Greenkeeping Superintendents' Assn. of America voted to change the name of the organization and elected:

Pres. . . . Carl Bretzlaff, Meridian Hills CC, Indianapolis, Ind.

Vice-Pres. . . . Raymond H. Gerber, Glen Oak CC, Glen Ellyn, Ill.

Executive sec.-treas. . . . Agar M. Brown, St. Charles, Ill.

New directors . . . Leonard Bloomquist, Superior GC, Minneapolis, Minn.; Ward Cornwell, Lochmoor club, Grosse Pointe, Mich.; Malcolm McLaren, Oakwood CC, Cleveland, O.

NGSA 1950 Educational conference and equipment and supply exhibit is to be held at Hotel Statler, Boston, Feb. 6-10.

With a total attendance of about 700 from all sections of the U. S. and from Canada, Hawaii, Mexico and Venezuela and a program practically balanced in technical and management matters the National Greenkeeping Superintendents' Association 20th annual turf conference and equipment and supply exhibition presented the most definite contribution to golf's progress any golfer would expect to see.

Beyond any question the action of the Southern California Golf Course Superintendents' Assn., aided by the Southern California GA and the Southern California Public Links Assn., in bringing the national session to the Pacific Coast proved to be profitable for all clubs concerned with improved course maintenance. Super-

intendents from eastern and central states attended in goodly numbers, with expenses of most of them being paid by their clubs as a logically important item of course maintenance expense. Particularly interesting was the fact that NGSA attendance represented smaller clubs as well as the larger and costlier establishments. Nothing could be more accurately indicative of the extent of the demand for top standards of turf maintenance at all classes of clubs.

Outdoor Demonstrations

Of particular interest too at the Feb. 7-11 gathering was the first outdoor demonstration of equipment held at a national greenkeepers' meeting. This event was held in the Los Angeles municipal Coliseum. Exhibits were housed in two tents. Demonstrations were staged on the football field. There were more exhibitors than at any other annual meeting in the association's history which was evidence of able work by Frank Ermer, chmn. of the NGSA show committee; Chester Mendenhall, pres., and the Southern California host organization.

Southern California's sunshine in liquid form deluged the Coliseum as the exhibits were moving in, a most "unusual" weather development which might have discouraged and depressed others, but anyone in any phase of greenkeeping is accustomed to weather trouble. The Coliseum soon dried and became as brick-hard as some of the greens and fairways greenkeepers and equipment men have to contend with.

Business was good at the exhibits, indicating the essential character of machine maintenance and of the high importance of chemical treatments in course maintenance. Another factor made plain at the exhibits was that at the better operated clubs the superintendents have been given wide leeway in buying. This is due to the technicalities of course maintenance now



"Get Acquainted Hour" at the Alexandria Hotel, Los Angeles, Calif., Monday evening, February 7, 1949,

being over the heads of most club officials and due, also, to greenkeepers having prepared their budgets with their clubs' entire financial picture in mind.

Greenkeepers Get Recognition

In ceremonies prior to official opening of the exhibits there were cheering indications that greenkeepers are beginning to get recognition for their achievements. Even the welcoming remarks of the Mayor and the President of the Chamber of Commerce, formalities which at conventions usually are remarks that fit alike conclaves of the Sons and Daughters of I Will Arise and the Gimmick Industry Assn., credited the greenkeepers with having taken leadership in increasing the beauties with which nature in its infinite wisdom has seen fit to abundantly endow this blessed section of this great nation, etc., etc., per the fervent formula of the enthusiasts.

Maurie Luxford, Southern California GA official, pres., Los Angeles Board of Recreation and Park Commissioners, said one can pretty well rate a golf club by the importance it grants to its greenkeeper and his work. Colin Simpson, chmn., Green committee, Southern California GA and green chmn., Los Angeles CC; and Randolph Scott, green chmn., Bel-Air CC and movie notable, lauded the superintendents

as responsible to a far larger extent than appreciated for the growth of golf. Both said that the strong demands for perfect golf course conditioning, the necessity of highly trained expert management in maintaining a first class golf course with rational economy, and the accumulation of turf maintenance problems called for greenkeeper knowledge and performance that demands recognition by all golfers. Simpson, Scott and Jerry Bowden, pres., Southern California GA, all took realistic views of the Southern California clubs' participation in meeting expenses of the conference by agreeing that the clubs' share of the financing would pay quick and large returns in helping to solve the area's golf course turf problems which local superintendents and visitors saw as numerous and complex.

Sidelights of the meeting, particularly the inspection tours, women's entertainment program and golf event, packed the spare time of the week. The greenkeepers tournament scheduled for Monday at Griffith Park was rained out and was played Friday.

Greenkeeping Needs Young Men

Convention addresses will be printed condensed in GOLFDOM. Highlights of the addresses and discussions by sessions now follow.



—photo courtesy NGSA

a popular feature of the Annual Turf Conference and Show of the NGSA that receives acclaim from all.

Leo Feser, Woodhill CC, chairman of the Feb. 9 A.M. session, opened with Herb Graffis, editor, *GOLFDOM*, speaking on "What's Ahead for the Business of Golf?" Graffis said that increasing demands for golf courses and for top condition of courses makes it necessary that more of the right sort of young men be attracted into greenkeeping. This can't be done, he added, when bright young men look around and see caddies at metropolitan district clubs making more money than many greenkeepers. He said that greenkeepers, having demonstrated their capacity to solve problems of turf, now have to apply themselves more to problems of people and money. He advised that greenkeepers school themselves in the general financial, operating and membership problems of the clubs and urged that in the big campaign of junior golf promotion the greenkeepers see that the kids are made aware of course maintenance problems and the greenkeepers' work.

Randolph Scott said Southern California was to be congratulated on having the NGSA conference as the visiting authorities would help the area's own experts in determining the answers to many of the problems of maintaining fine turf in territory reclaimed from desert and mountain. Scott,

as a green chairman, lauded his own club's supt., Vince Vidal, as representative of the type of greenkeeper whose ability and loyalty to the club lightened the dilemma of the chairman. Scott also introduced Bel-Air's pro for 21 years, Joe Novak.

Novak, as president of the PGA, spoke on "The Golf Course We Like to Play" from the viewpoints of the members, the home club pro and the tournament player. Novak's talk was a masterly one in its presentation of the partnership between the greenkeeper and the pro. He said the pro's income was directly in proportion to the attractive condition of the course. He went over the course detail by detail — tees, fairways, approaches, rough, traps, greens and practice areas — giving his observations of what made play more pleasing to the players. The PGA president stressed the point that money usually is the big factor in golf course maintenance and said that he had seen courses that while by no means in fine condition represented miracles of performance by a greenkeeper who was doing the job on a small budget.

Muny Golf Self Sustaining

George Hjelte, LA Dept. of Recreation, speaking on "The Public Golf Course — Its Place in the Master Plan of Public



Officials, hosts and speakers appearing on the program of the 20th national Turf Conference and Show of the NGSa at Los Angeles, Feb. 7-11, are caught by the camera in informal pose prior to the opening session. (L to R) William H. Johnson, Griffith Park Course (LA), Ass't. Chmn. of Southern Calif. group for the Conference; Leo Feser, Wayzata, Minn., Chmn. of the opening session; William Beresford, Los Angeles CC, General Chmn., pres., GSA of Southern Calif.; Randolph Scott, Green Chmn., Bel-Air CC (LA); Joe Novak, Bel-Air CC, PGA Pres.; Herb Graffis, Editor, GOLFDOM; Maurie Luxford, Pres., Dept. Recreation and Parks, Los Angeles; and Chester Mendenhall, Pres., National Greenkeeping Supt's. Assn.

Recreation Facilities and Services" told of the Los Angeles public golf growing from a 9-hole sand green course in Griffith Park to its present 7 courses financed by fees received from the golfers. In this respect golf is unique as a generally self-sustaining municipal recreation operation, Hjelte pointed out. He noted that most public golf courses were on land donated or on fringe land that was in no other demand when the courses were built. Now it's difficult to get land for public courses despite tremendous traffic most metropolitan district public courses are getting and with constantly increasing number of golfers demanding this public recreation facility.

Hjelte said that if Los Angeles doubled its public courses it wouldn't be able to care for demand and now is turning away golfers who are in danger of leaving the game if they can't get places to play at reasonable prices. He noted that building of public golf courses has been nearly static since 1938 and viewed this situation as one of the serious problems in public recreation in view of the great public response to the appeal of the game. The LA authority said that more than half the cities of over 20,000 population in the United States have no public courses although studies show that communities with 10,000 to 15,000 population can support adequate public courses.

Cecil Hollingsworth, noted former football star and coach and now part owner

of a daily fee course in the Los Angeles area told of golf being the right answer to many of the problems in employees' recreation. He gave the superintendents a clear and broad view of how their operations fit into the plan of improving employee-management relations and furthering "the pursuit of happiness." Hollingsworth noted the solid growth of golf at courses built by leading industrial firms and operated by employee-management groups of these companies. He forecast that decentralization of industry with accompanying necessity of making remote communities attractive to workers would spotlight golf in industrial recreation. Newest industrial course, incidentally, is that at Los Alamos, N. Mex., for Atomic Energy commission employees.

Practical Psychology

Arthur Langton, National Lead Co. advertising man and a one-time greenkeeper who was inducted by his father, the veteran W. E. Langton of San Gabriel, delivered an interesting address on "Practical Psychology in Golf Course Management." Langton said the natural, economic and psychological phases of a greenkeeper's job must be kept in balance. He noted that some greenkeepers produce excellent turf but don't satisfy players while other greenkeepers hold their jobs on personality even if the course condition isn't so good.

There is no counterpart in industry for the greenkeeper's job, Langton said, and that's why the relationship between green-

keeper and chairman may be bewildering. He cited a hypothetical case of a chairman who was a garbage can tycoon and who in his business would hire experts and wouldn't challenge their authority. But as chairman of a green committee the garbage can tycoon might expect that he's supposed to know everything and act accordingly.

Not infrequently the greenkeeper may resent everything the chairman plans to do before the chairman shows his hand. Langton pointed out in reminding greenkeepers that fault in greenkeeper-chairman relations may not be that of the chairman. Langton advised that the greenkeeper assume the chairman, having made a success in his own business, must have something worth study by the greenkeeper.

Langton also said that the greenkeeper frequently is handicapped by being inarticulate. Initiative and drive are respected by the businessmen who are club officials and members. In exhibiting these capacities the greenkeeper should, Langton advised, write up his ideas and make sketches, sign them and display them on the club bulletin board or in formal reports. He suggested that greenkeepers address garden clubs and extend their contacts in securing recognition for their achievements and in building their own confidence.

Wednesday P.M. session had as chairman Bob Williams, Beverly CC (Chicago dist.) who led off with Fred V. Grau, director, USGA Green Section speaking on "Things

to Come in Turf Management."

Grau voiced confidence that more money was going to be made available to meet urgent needs of turf research because results of research already done as result of Green Section, greenkeepers' and agricultural college cooperation has paid off substantially not only for golf courses but for lawn owners, parks, airfields, highways, cemeteries and other departments of turf's big business.

Development of turf maintenance equipment Grau said is proceeding rapidly, forced by the 60% to 70% labor cost of course maintenance. He said vertical mowing equipment to cut under low-growing seed heads before they mature is coming along fast. Relieving compaction of soil is one of the urgent requirements, Grau said, and told of mole drainage equipment now coming into use. Accessory equipment, such as leaf sweepers, are constantly improving to meet course maintenance needs.

Water Waste and Shortage A Problem

Grass strains are being steadily developed to meet golf needs, Grau reported and said that the result of the research and breeding is going to solve many of today's turf problems, among them being getting grasses that will do well under conditions that have prevented development of golf grasses. The USGA director outlined status of new grasses and reminded that new strains take 15 to 20 years to develop. Fertilizing progress also was outlined in

(continued on page 78)



—photo courtesy NGSA

Just before NGSA exhibits in two tents in background opened at Los Angeles. The infield of the Coliseum was scene of the demonstrations. Opening addresses were made from platform in foreground.



—photo Dick Turner

California turf chiefs and USGA Green Section director Fred Grau, rejoice as big attendance at opening session of GSA national conference at Los Angeles assures high satisfaction with greenkeepers' first national session on west coast. Only Gomer Sims looks glum as "unusual" weather mars greenkeepers' golf program. L to R: Gomer Sims, Cecil Hollingsworth, Wm. Johnson, Wm. Beresford (pres. Southern California Golf Course Supts. Assn.), Tam Hood, Colin Simpson (LA CC green chmn., Green committee chmn., Southern California GA,) Fred V. Grau.

GREENKEEPERS CONTRIBUTE

(continued from page 41)

Grau's talk. He summarized briefly the great progress in fungicides, weedicides and insecticides. Grau sketched the battle with water waste saying that shortage of water, lowering water tables and undesirable nature of available waters is giving superintendents plenty of trouble now and that trouble from water — or lack of it — will increase.

Grau said that turf research needs more trained men. Now there are 24 state experiment station — USGA Green Section co-operative turf research programs being conducted and the problems at each of them are far ahead of the supply of men and money.

Verne Stoutemeyer outlined programs of turf research in his address on "Research and Extension Turf Problems on a Regional Basis." Stoutemeyer now is with the University of Southern California at Los Angeles and is director of the Southern California turf research project. His brilliant and valuable work in golf turf research at Iowa State college ranks Stoutemeyer among the top aces in this work. He told of regional conditions determining the plan and objectives of research. For instance, year around play in Southern California, uncertain water supply and com-

pacting soils, provide some specific problems that may not prevail in other areas. He told of work being done in growing golf grasses in Arizona deserts; a project that has few precedents.

Jerry Bowden, Southern California GA pres., in talking about "How the Green Chairman and Greenkeeper Can Be A Better Team" said any team must have good material as a starter. He said the appointment of the right green chairman is one of the heaviest responsibilities of club officials. Getting men with the necessary interest and time to devote to a green chairman's job is not easy, Bowden observed. He said that teams such as Bob Skelly and "Scotty" McGregor who have been greenkeeper and chairman at Victoria for 30 years and Frank Attencio and Frank Boynton who have been in those respective capacities at La Hacienda for 27 years, are of value beyond reckoning to their clubs. Bowden said the greenkeeper must present his case to the chairman so the chairman understands the situation and the need thoroughly and can properly present the story to the board for emergency expenditures. Bowden also commented on the betterment of courses directly attributable to the greenkeepers' national and regional organizations, saying that at his own club great changes for the better had been made by the superintendent with

ideas he's brought home from the green-keeper meetings.

Plan Special Work Year Ahead

Wm. Beresford, pres., Southern California Golf Course Superintendents' Assn. and supt. at Los Angeles CC in talking on "Preparing the Course for Championship Play," says any special work for a major tournament should be scheduled a year ahead. Greens are most important, he said, and the greens are just as good as the superintendent. He said a true green always is on the fast side and advocated cutting to 3/16 height. Fertilization depends on the course and expected conditions and the course must be nursed to the peak when the tournament is to be held instead of being given "a shot in the arm" for tournament play. He detailed green, fairway and rough watering, fertilizing and mowing procedure, trap and tee maintenance and tree pruning that might be required. He also told of training men well before the tournament in special duties that would be expected. Clubhouse grounds also should be attended to so the whole picture of the tournament will be attractive.

Ray Didier, supt., Tam O'Shanter CC,

EASIEST of all Clubs to Play

Cuts Scores 10 Strokes

The Chipper, one of the Famous 3 in the Stroke Saver Set, is designed for pitch and run and chip shots within 50 yards of the green where 2/3 of the game is played. With improved brown leather perforated grips and triple-plated chrome heads.

SQUARE GRIP and short shaft insure directional accuracy. Three clubs in set. Putter 31", Approach Cleek 32", Chipper 33" long. Nationally advertised and priced \$8.75 each. More than 1,000,000 have been sold.

ORDER A SAMPLE SET TODAY. To show them means sales to present users and thousands of players who will buy these extra irons to improve their game. Send for new **FREE** circular about Walloper (Iron Driver) biggest selling special club ever developed.

RUTLEDGE OUTING EQUIPMENT CO.

Beckley-Ralston Division

3337 Belmont Ave.,
Chicago 16, Ill.



AMERICA'S FINEST GOLF CART!

... again in '49

One important reason for the outstanding success of the Wagner De Luxe Golf Cart is that each year more and more owners recommend it to their friends . . . a most important reason why *you* should stock this popular, profitable item.

\$27.50 List price

Write for discount information

PAUL G. WAGNER CO.

2865 East Washington Blvd.,
Los Angeles 23, Calif.

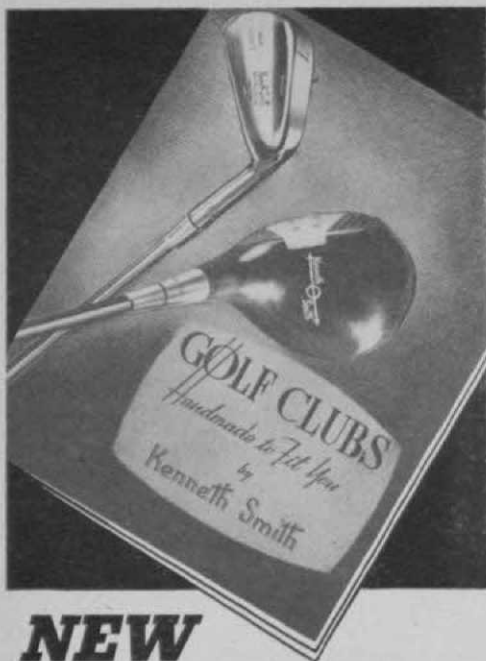
- Light, easy pulling
- Ball Bearings
- Balloon tires
—need no inflation
- Handle adjustable
for balance
- Steel tubing shaft
- Handle adjustable
for bag height
- Comfortable grip
- Holds any size bag
- Folds compactly
- Fully guaranteed

Manufacturers of highest quality metal products for 30 years.



WAGNER

GOLF CART



NEW FREE BOOK

AND

Fitting Chart **TELLS HOW**

my woods and irons are accurately designed for you to fit your natural swing. Thirty years of successful custom club making for over fifty thousand top amateurs, Pros, Hollywood stars, and other particular golfers all over the world.

PROS: Write for this new book and also handy order blank for

Ken SHOP
SUPPLIES

Kenneth Smith
GOLF CLUBS
Hand made to fit You

BOX 41, KANSAS CITY 10, MO.

CUSTOM CLUBMAKER FOR 30 YEARS

Niles, Ill., where George S. May presents his top money tournaments, talked on "The Superintendent's Problems of Tournament Play," and told of how thoughtful and complete organization had smoothed handling of crowds as large as 32,000 on one day, many of whom never before had seen a golf tournament. Didier, undoubtedly the greenkeeper most experienced and most successful in preparing for tournament traffic, told of erecting temporary grandstands, information and direction signs inside and outside the grounds, preparing parking spaces for players, press, members and galleries, having material ready for weather emergencies, policing the grounds so the crowds won't have the place looking like a pig sty, maintaining concession areas, installing emergency toilets, and phases of course work, such as mowing, watering, setting cups and tee markers.

Insect Control

Prof. John C. Schread, of Connecticut Agricultural Station, who pioneered in highly successful insect control work that has brought chlordane into extensive use, spoke on "Control of Insects Injurious to Turf." Schread illustrated his talk with

BUFFER - POLISHER



Hundreds
now
in use!

EVERY PRO SHOP...

needs this STANDARD "CLUBMASTER" Golf Club BUFFER-POLISHER. Wide swing with 1 H. P. 1750 RPM motor permits two boys to work at the same time. We can also furnish the 8" by 1" cloth and wire wheels. Immediate Delivery!

Write for Bulletin P5

THE STANDARD ELECTRICAL TOOL COMPANY
2524 River Rd., Cincinnati 4, Ohio

colored slides. Of the 600,000 known varieties of insects a large percent are beneficial, but the chewing or sucking insects that feed on golf turf are about as devastating as insects can get.

Schread detailed work with arsenics, DDT and chlordane, telling of methods, time and rate of applications. Chlordane he found was most effective with its combination of irritant, stomach poisoning and fumigating. Prevention of damage to soil he went into as a vital factor in grub control. Tropical earthworm or stink worm he said was effectively controlled by chlordane, but as far as his work had gone the "118" compound was even more effective.

Chinch bugs and ants were completely controlled by chlordane and 118, Schread said. For ant control the chlordane must be applied with a pressure spray and washed in with clear water.

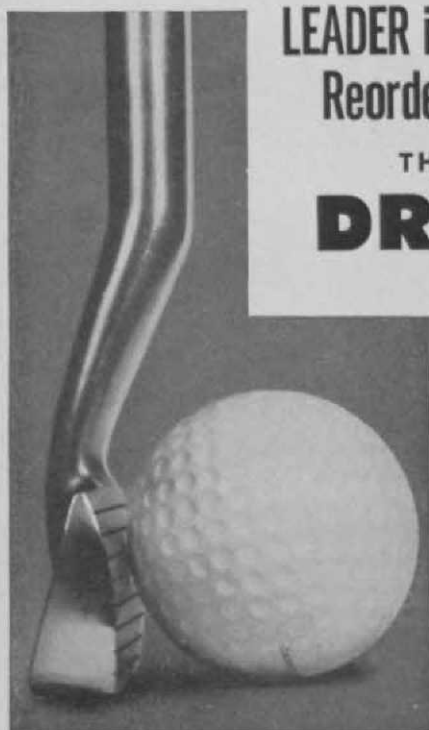
Jerry Bowden, as chairman of the Feb. 10 A.M. session, introduced Dr. H. E. Hayward, U. S. Dept. of Agriculture, Los Angeles, whose paper was on "Saline and Alkali Soil — Properties and Management." Dr. Hayward told of materials not conducive to healthy growth of golf turf present in appreciable quantities in Colorado

river water supplied to Los Angeles region and in other sources of golf course water supply. Saline and alkali soil conditions are aggravated by such water and unless tolerant grasses are developed or remedial treatment applied, greenkeepers are going to have increasing difficulties with unfavorable factors in the water.

Role of Chemistry and Research

The Hayward address as did those of Dr. R. N. Jefferson of UCLA on "New Developments in Insecticides" and A. S. Crafts, also of UCLA, on "New Developments in Weed Control," emphasized the role chemistry has in modern greenkeeping and the part that research has in helping greenkeepers to find the right answers without ruinous delay or dangerous trial-and-error experiments made under member pressure on courses. These three papers will be printed, digested, in forthcoming issues of GOLFDOM.

Application of the scientists' work by the greenkeeper was the subject of Malcolm McLaren's presentation. McLaren spoke on "Large Scale Application of DDT" in grub control after working out the plan with Ohio Experiment Station men. Mac got results that saved his course at a cost of



LEADER in Player Popularity, Pro Profits Reorders tell the Success Story of

THE SENSATIONAL *Rite-Arc*

DROP IN PUTTER

PRECISION MACHINED

GIVES BALL NATURAL OVERSPIN

Player enthusiasm, spreading the word of the DROP IN Putter's amazing performance, kept pros reordering throughout 1948. The "putter that really produces" is a sure profit leader for 1949. A putter of unequalled eye-ease control, feel and swinging confidence that strokes the ball with natural overspin, smoothly without skid or hop. As an expert judge of clubs you'll enthuse over their precision machining. Just put them where your players can feel them—they'll sell themselves.

In Natural Armco Metal.

Write for particulars and Professional's price.

GENERAL MACHINE CO.

1825 WEST ST. PAUL AVENUE

West 3-4250

MILWAUKEE, WISC.

\$26.76 per acre. He showed colored slides of the work and there was considerable discussion following McLaren's story.

George Thompson, president for many years of Hillcrest CC, Los Angeles, in speaking of "What Golf Means to the Businessman," said that it means an escape from worries and responsibilities generally, but the club official often doesn't manage to make that escape. He lauded greenkeepers for supplying club officials with the satisfaction of knowing that experts are competently and conscientiously handling the basically important problem of course conditioning and management.

The problem of supplying golf club facilities to desirable young men and that of caring for the increasing play of women disturb club officials now, Thompson said, and it's a good thing that the greenkeepers are demonstrating such fine capacity in relieving officials of problems of course operation.

Wm. Johnson, Griffith Park, LA, was chairman of the concluding session of the educational conference. The veteran architect and builder William Bell opened that session with his address on "Architect Relationship in Course Alteration" which was

accompanied by motion pictures of Bell's job in remodelling the 13th and 14th holes and 12th green at Annandale where Bill Malcolm is supt. Work was begun on June 2 and the remodelled areas were in good condition for play in January. A hill on the 14th hole required removal of 12,000 yds. of earth.

Controlling Factors in Design

Bell, who's built many fine courses on the Pacific slope, always has been keenly conscious of the greenkeeper's part of the work. He was the first one to introduce bent greens into southern California. Billy said that construction, like greenkeeping, has made many advances and especially in economical and speedy handling of earth. He said that the greenkeeper's knowledge of local soil, climatic and turf conditions always is a controlling factor in design and construction for satisfactory maintenance but that a greenkeeper or green-committee cannot be expected to have the specialized knowledge and foresight on design that an architect acquired. Alteration to make play less of a strain on older members, to speed up play and increase safety on heavy traffic courses without sacrificing interest of the holes constitutes the archi-



IT'S NEW! IT'S TERRIFIC! IT'S **CINCH** THE LIQUID GOLF GRIP

"Beats anything I've ever used for grip", says Frank "Lil Abner" Strasz, World's Longest Driver.

A few drops of CINCH on the hands will give your customers the grip that means better golf — instantly. CINCH is sanitary . . . stainless . . . dries instantly. 10 to 12 applications in the 25¢ tube — 10¢ profit on each tube.

This attractive display container is offered free with initial order of 2 dozen tubes.

Retail Value	\$6.00
You Pay Only	3.60
Your PROFIT	\$2.40



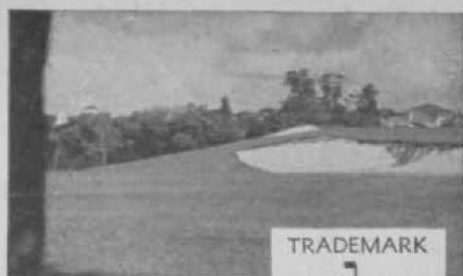
CHEM PRODUCTS, INC. 50 STATE STREET
HARTFORD • CONNECTICUT

textural problem from the members' viewpoint. The greenkeeper wants the holes changed for lower maintenance, elimination of bad water or air drainage and general assurance of good conditioning without undue work or expense. Satisfying all parties involved is a task to demand the abilities of a thoroughly qualified specialist, Bell said.

Husky Harry Scoth of the US Dept. of Agriculture at Corvallis, Ore., a protege of the late Dr. Piper in pioneering in golf grass seed development, spoke on "Grass Seed Production on the West Coast." Scoth in telling how west coast grass seed production grew from a \$50,000 yearly crop 25 years ago to a \$20,000,000 crop in 1947, gave details of the production of Seaside, Astoria, Highland, Colonial and Velvet bents and three primary varieties of fescue. He said bluegrass is in prospect in considerable quantities from the west coast. He also advised that one variety of alkali grass is available in good quantity from the west coast.

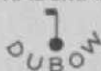
Stratified Soil Problem

Don Strand, supt., Westmoreland CC, Wilmette, Ill., told of his battle with poa annua as a stubborn element in "The Re-



DUBOW

TRADEMARK



Symbol of Golf Club Excellence

JOCK HUTCHISON and BETTY HICKS
PRECISION-BUILT GOLF CLUBS
GRADUATED GOOSE-NECK IRONS
LAMINATED and PERSIMMON WOODS
COMPLETELY NEW

and
DISTINCTIVELY STYLED
for
MEN and WOMEN GOLFERS

also
Makers of the New

**DUBOW H. C. — SUPER 803 COVER
GOLF BALL**

*The finest Golf Ball that can be made
Write for descriptive folder and price list*

J. A. DUBOW SPORTING GOODS CORP.
1905-13 Milwaukee Ave. Chicago 4, Ill.

Pros., Managers...Here's a Fast Profit Item!

"SPORTS-CLOTH"

**A HANDY, HAND TOWEL
EVERY GOLFER NEEDS**

**SNAPS
ON BELT
OR BAG**



- Keeps Hands, Clubs, Ball Dry and Clean
- Always On Hand—Ready for use
- Sells and Resells—Fast!
- Attractively Packaged In Cello-Wrapped Threesome



**RETAIL PRICE
3 for \$1.00**

**YOUR PROFIT
\$1.75 on every
4 packs**

Geo. McArthur & Sons, Inc.
Baraboo, Wis.
"Fine Textiles Since 1885"

Geo. McArthur & Sons, Inc.
Baraboo, Wisconsin

Send me _____ dozen Sports-Cloths (Packed 3
Send me more information () per Pack)
Price \$2.25 per dozen.

Name _____
Club _____
Address _____
City _____ State _____

FLEXISOLES

by AIR WALK

... begin the 1949 Golf Season
with an improved product — a
NEW PACKAGE and a **NEW**
LOWER PRICE!

COOL — COMFORTABLE — WASHABLE

•
SOFTLY ABSORBS
FOOT and LEG
SHOCK

•
RELIEVES FATIGUE

•
ELIMINATES
EXCESSIVE
PERSPIRATION

•
CONTAIN 80% AIR,
VENTILATES SHOE
WITH EVERY STEP



This fast selling *Pro Shop exclusive* won instant acclaim with thousands of players last season. This year the demand for FLEXISOLES is greater than ever.

FLEXISOLES are custom made of selected first quality U. S. KOYLON foam to insure proper resiliency, bouyant support and long wear. ELASTRON, the elastic leather type coating, an AIR WALK development, further provides soft, luxurious foot comfort.

*New attractive package in
two color sports design.*

Write for prices and literature.

Retail Price \$1.00 per Pair

AIR WALK COMPANY

Box 52,

Clayton 5, Mo.

novation of Turf." Strand went into details of soil compaction, aeration, drainage and weed infestation in telling how he restored "worn out" turf. He said the work all has to start with soil and plant tissue tests to determine existing conditions and needs, then must get into soil mechanics.

Strand said that stratified soil preventing root penetration is the general problem he observed on greens. In renovating his greens he removed sod, added coarse sand, mixed subsoil with a Rototiller and replaced bad turf with sod from his nursery in which same soil composition and maintenance methods had been used as is used on greens. Fairway renovation is mainly a long and patient job of introducing aggressive and desirable grasses when they'll get strong growth and keep undesirable grasses from returning. Golfers' desire for close mowing and a lot of watering complicates the greenkeeper's problems of turf renovation but Strand remarked that the courses are for players primarily instead of being grass exhibits, so the greenkeeper simply has to make adjustments.

F. W. Roewekamp, Los Angeles, in his address on "Value of Trees on A Golf

MEMBERS Expect THEM

SANI-TREADS

The Original Paper Bath Slipper



Tough, water-resistant, inexpensive, — Sani-Treads keep feet clean about the locker room, save you laundering that extra towel. Most golf players have come to expect Sani-Tread protection against slipping — against the spread of "athlete's foot". Is your club Sani-Tread equipped? Dispenser racks available. Send for samples and prices.

SANI-TREAD CO., INC.

1722 Elmwood Ave.

Buffalo 7, N. Y.

Course," outlined soil, wind, climatic, water and maintenance factors in determining selection of trees for a golf course. He spoke of architectural as well as maintenance elements in golf course tree work. He advised creating mass effects with native trees, bearing in mind that low trees make a fairway seem longer than it measures, that shallow rooted trees cause trouble around greens and that deciduous trees not placed with wind conditions in mind annoy the players and add to maintenance expense.

He advised against shrubs except around tees and building. He said that inspection and maintenance of trees should be regular procedure in maintenance. He also urged greenkeepers to get bulletins of the National Shade Tree Conference and state agriculture college tree information.

Dr. G. O. Mott, Purdue University Agriculture Experiment station, Director of the Midwest Turf Foundation, made an intensely practical presentation of "The Problem of Soil Compaction, Aeration and Drainage." Mott brought out that these factors are the most common cause of serious trouble at golf courses today. Archi-

tectural alterations are extensively improving surface drainage but water-logged roots in subsoil continue to be the greenkeepers' biggest problem.

Old Drainage Ineffective

Lack of proper subsurface composition enabling oxygen to nourish soil microorganisms is one phase of the problem. Another is heavy clay that prevents penetration of water so the roots are dry notwithstanding heavy watering or rainfall. Sand or gravel under a few inches of topsoil may keep shallow roots continually saturated and prevent growth. Mott pointed out that drainage tiles only remove free water which is beyond the water-holding capacity of the soil and that tiling doesn't suck water down. Treatment with aerifiers and topdressing of high sand content remedies many undesirable conditions. Mott showed colored slides of turf injuries from poor aeration and drainage. He said that farmers are finding that old drainage is losing its effectiveness due to inability of free water to get to the tiling and that golf course superintendents also are making the same discovery.




PROS! Easy Profits

You can easily sell these high quality nationally advertised golf shoes at attractive profit without troubles of overhead, stock, or delivery.

Just put one pair of these shoes on your counter and watch the orders pour in. They're high grade throughout. Right-weight top quality oak soles...replaceable screw-in spikes. Send coupon below for information on our exclusive protective deal for golf pros which insures easiest and quickest earnings with no trouble or costly overhead.

NOTICE

These shoes will be sold through golf professional shops exclusively.

Send Coupon Now 
for complete information

CORCORAN INCORPORATED
Stoughton, Massachusetts

Send me complete information on how I can make extra profits with your high-quality golf shoes.

Name

Club

Address

3

The better they play, the more they play ★ The more they play, the more they patronize your clubhouse and pro shop.

EDERER GOLF NETS

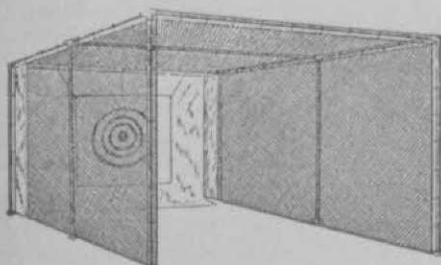
Two famous Ederer Golf Nets are ready to help you improve play and increase profits

EDERER "PORTABLE"



This is the new portable net that has won such wide popularity for its easy adaptability for practice in limited space. 6½ ft. high with 10 ft. wing spread — handles full range of golf practice shots. Folds into a compact unit 3 ft. x 6½ ft. x 5 in. Weighs only 23 lbs with its target backdrop.

EDERER "INVINCIBLE"



Golf's standard full size golf net for indoor instruction and practice. Hundreds of clubs and pros have found the "Invincible" one of their most popular and profitable features in developing better and happier players.

Write for folder and price list

R. J. EDERER COMPANY

Invincible Sports Nets

HOME OFFICE: 540 ORLEANS ST. • CHICAGO

The educational-conference sessions concluded with a talk by Dean R. W. Hodgson, UCLA, on "The Importance of Plant Research on a Regional Basis." Dean Hodgson said that industry considers that research expense can't safely be reduced much under 2 per cent but the agricultural and turf research funds, nationally and regionally, are but a small fraction of the industry figure, notwithstanding the tremendous importance and extent of agricultural and turf problems. Industry has found that research pays great dividends, and so have those immediately associated with plant production. But getting funds to meet even the increasing costs of present plant research is a job as tough and as complex as it is urgent.

Conference sessions always were packed by attentive listeners. It was warmly agreed that the program committee of Chet Mendenhall, Ray Gerber and Norman Johnson representing the NGSA, and the Southern California superintendents' representatives, had presented the best program for quick and profitable application to courses of convention attendants that the association had set forth in its 20 years of service to American golf.

PHILLIPS



SIZE
1" Diameter



FITS
Regular
Receptacle

The Swing is to the
LARGER BASE

- WILL NOT TILT or Break Through Sole.
- KEEPS THE SPIKE ERECT.
- PREVENTS OUTER SOLE from Rolling.
- WEATHER TIGHT—RUST PROOF.

(White Plated or Black Finish)

WILL NOT TURN BY THE THREADS

F. C. PHILLIPS, INC.
STOUGHTON, MASS.

Advance guard of the NGSa 1950 convention at Boston consisted of Elmer B. Fuller, supt., Highland CC, Attleboro, Mass. and Philip Cassidy, supt., Weston (Mass.) CC . . . Cassidy and Fuller came on club budgets and found in discussions that New England had a lot of course maintenance problems in common with Southern-California . . . In talks about how chairmen got in and pitched with supts, Cassidy praised his chairman, Raymond Clapp, formerly manager of a farm bureau, and Fuller put in plugs for his kind of a chairman, Dr. E. M. Webb, a dentist . . . One of the great old timers around the convention was Wm. H. Tucker, sr., who was brought over by the late John Reid to build St. Andrews at Mt. Hope, N. Y., in 1893 . . . John DaDalt, supt. at Burlingame (Calif.) CC, built a new 9 holes last year. He says modern methods of dirt handling, seeding, fertilizing and drainage bring construction costs well in line with what they were when he went to Burlingame 18 years ago.

Thirty years ago when Ken Goit was a young officer in the US navy he stayed at Alexandria hotel on his first trip to L.A.

. . . He wasn't in the hotel again until it was headquarters of the NGSa this year . . . Harold Henry of D. B. Bell and Son at the meeting saying that sales service is about as tough a job as greenkeeping . . . Joe Mayo came over from Hawaii where he's been doing construction work with Billy Bell . . . Joe recalled that when he was building the Peninsula course at Monterey for the late Seth Raynor in 1926 the other Joe Mayo was building the Waialae CC course in Hawaii for Raynor . . . The two Joe Mayos got their mail mixed plenty.

Al Linkogel, Tom Henry and Oscar Bowman of St. Louis were stuck two days aboard a train in a Wyoming snowdrift en route to the convention . . . W. E. Langton, San Gabriel veteran, now working on a book about his 50 years in greenkeeping . . . It should be a classic of its kind for Langton's got an interesting story and he's an excellent writer.

Reunion of Billy Bell Alumni Assn. at L.A. . . . Among those present were Art Sutherland, supt., Lakewood, who went to the club when Bell was building it in 1932 . . . Art did a fine job in preparing for and handling this year's Long Beach Open

BERNER *for Quality Golf Equipment!*

Players Prefer

VELVET TOUCH PUTTERS and CHIPPERS

by Fred Matzie



NOW AVAILABLE FOR LADIES, TOO!

Not ONE but NINE STYLES of Putters and a new Chip and Run Iron to choose from: double flat faces, block head types, heavy flanges or none, brass or aluminum, goose-neck or straight. There's a VELVET TOUCH to fit every preference.

Also Fred Matzie Registered and Levings Woods.

NEW! LEATHER-KNIT* GOLF CLUB HEAD COVER SET (above)

Combines full grain, tailored leather head covers and double-knit extra long skirts. Head covers fit easily around club heads and are lined with extra heavy fleece to prevent marring of wood heads; equipped with leather loop and recovery cord, contrasting dark leather numerals. Extra heavy skirts come in assorted colors with contrasting stripes and fit snugly to contour of shaft.

*Patent applied for.

WRITE TODAY

for information, prices, liberal discounts on complete Berner line and name of nearest Berner agent.

BERNER COMPANY, INC. 801 EAST 8th STREET
LOS ANGELES 21, CALIFORNIA

Par-D-Lux



*America's
Finest
Golf Glove*

Full-hand
protection —
yet as light and
comfortable
as bare
hands!

FEATHER-LIGHT AND FAIRWAY-TESTED

Expertly tailored from the very choicest of the world's finest glove leathers. Precisely sized by an exclusive process proven to guarantee permanent individual fit. Red or chestnut tan. Unconditionally guaranteed.

ORDER NOW—your order will be correctly filled — shipped when and how you want it.

K. L. BURGETT CO., Peoria, Ill.

MINIATURE GOLF

Plans drawn Low priced putters, any length Everything pertaining to miniature golf.

Our plans are so complete in detail that YOU can easily and economically install your own course.

Your Correspondence Invited

COOL CREST GOLF COURSE

1402 Fredericksburg Road
San Antonio 1, Texas

. . . Ellis Van Gordon, now supt. Stanford university course, started in course maintenance work with Bell in 1923 at Annandale . . . Bill Malcolm, Annandale's supt., also started when Bell was greenkeeper there . . . The boys talked about Bell, in 1919, planting the first bent greens in Southern California . . . There were a lot of dismal forecasts made . . . Bob Henderson and Art "Scotty" Stephens, elders of the Buffalo (N. Y.) corps of greenkeepers have a good philosophy about keeping young in greenkeeping . . . They say a guy is kept young by so often having some damned new trouble he has to lick.

Jim Hoffman was kept busy wheeling his Roseman tractor around the Coliseum infield towing equipment in the demonstrations . . . Jim towed the Mascaro FG Aerifier around at high speed taking plugs out of the near-abode soil of the infield and hauled the Springfield sweeper at high speed in another convincing demonstration, picking up broken bottles, paper, butts of hot dogs, loose grass and leaves . . . Sprinkler demonstrations were impressive too . . . This outdoor demonstration program shows great promise . . . It needs a set program and some hills for complete testing, but the idea is going to grow.

GIVE IT TO THE INDIANS



Joe Durgan (R), pro, Clarkston (Wash.) G&CC instructs three members of Nez Perce tribe how to make use of new 3-hole course constructed at Nez Perce Indian reservation, Lapwai, Idaho. Archie Phinney, supt. of reservation and full-blooded member of the tribe, had the course built to save golfing tribesmen 25 mile trip to Clarkston. Among 25 Nez Perces who play regularly Durgan says some show promise of employing their natural athletic aptitude in becoming expert golfers.