

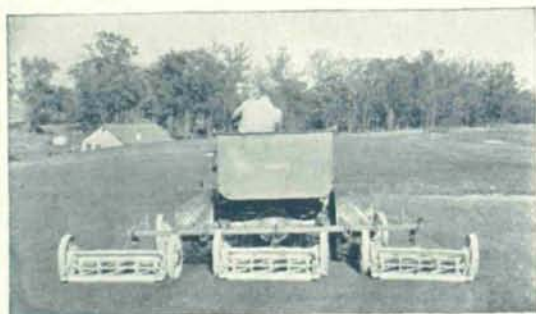
The New Toro Master Seven



Note the arrangement of the two front mowers, which cut the grass before it is matted down by the drive wheels.



For transporting, the mowers are swung around behind, and the total width is less than that of a three-unit outfit.



New Master five-unit outfit. Two extra mowers can be added instantly, converting it into a seven.

A highly powerful light-weight mowing outfit that will handle fairway mowing in approximately half the time required by the old types.

The frame is directly connected to the chassis, reducing the wheel base to only 103 inches, and providing a closely coupled mowing outfit with a high degree of flexibility.

The two front mowers are placed ahead of the rear drive wheels so that the grass is cut before being matted down. The two outside mowers are opposite the driver so that he is enabled to watch his cutting swath easily without constantly turning his head.

The mowers and frame can be disconnected in 5 minutes' time, and the tractor can be used for general utility purposes. A most important feature because it is now only necessary to use it every other day for mowing—a clear saving of 50% in labor.

The new Toro Master Mower comes in seven, five and three-unit outfits. It will pay you to see your nearest Toro distributor immediately, or write us for details.

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The NATIONAL GREENKEEPER

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The NATIONAL GREENKEEPER

is the recognized official organ of the National Association of Greenkeepers of America and as such will publish in its January issue the official program of the Sixth Annual Convention, Educational Conference and Golf Show, to be held at Hotel Pennsylvania, New York City, January 19-22, 1932.

Advertisers are guaranteed the most intensive and extensive distribution of any publication in the golf maintenance and turf culture field.

Forms for the January issue close December 28. Make your reservation for preferred position now and write for rates.

L. H. C. Power

President



HOTEL PENNSYLVANIA

DECEMBER
1931
VOLUME V
NUMBER XII

The NATIONAL GREENKEEPER

Official Organ of The
National Association
of Greenkeepers of
America

New York Welcomes Greenkeepers

Economy will be the watchword of Sixth Annual Convention at Hotel Pennsylvania. Educational program is unexcelled.

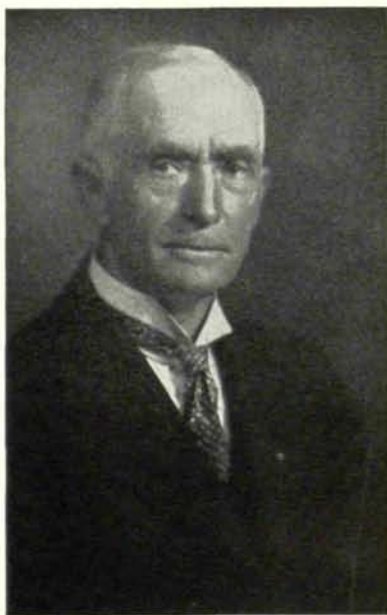
By COLONEL JOHN MORLEY, *President*
The National Association of Greenkeepers of America

PRACTICALLY all arrangements are completed for the Sixth Annual Greenkeepers' Golf Show, Conference and Convention, to be held at the Hotel Pennsylvania, New York City, January 19-22, 1932.

This is the first time in our history that we have met along the Atlantic Seaboard. All indications point to a record-breaking attendance. The various committees in charge of promoting and conducting so large an enterprise in the interest of golf maintenance report satisfactory progress.

Fred A. Burkhardt, chairman of the Golf Show committee, has informed me that he expects to have every booth occupied in the beautiful exhibition room on the mezzanine floor of the Hotel Pennsylvania.

Never in the history of golf were men of greater talent selected to discuss every angle of golf maintenance, both from a scientific and practical standpoint. The Conference program is sufficient to convince those who attend these three-day sessions that their time will be well spent in listening to the various speakers. The scientific subjects will be ably discussed. It will be a treat to listen to and



COLONEL JOHN MORLEY

observe the large number of experienced greenkeepers who will discuss from all angles the many difficult problems they have had to contend with, especially the disastrous season of 1931.

Last year we were to a large extent unfortunate in trying to hold our Conference and Golf Show in the same hall. It made it difficult for those in attendance to hear the important addresses delivered by able speakers. This year we have secured a room in the Hotel Pennsylvania where one can sit and enjoy the conference papers in comfort.

The Hotel Pennsylvania is noted for its hospitality and the management has promised to do all in its power to make our re-union a grand success.

We are pleased to announce that through the efforts of Mr. Jones, general passenger agent of the Baltimore & Ohio railroad, Cleveland, reduced railroad rates have again been secured for us on all railroads entering New York City.

I have been informed that the Ladies' Auxiliary, composed of wives of greenkeepers belonging to our association, will attend and Robert J. Hayes and John Anderson, committee on Entertainment,

promise a royal good time for all ladies attending the Show.

We want you to watch for the complete program in the January number of the NATIONAL GREENKEEPER. Mr. Robert E. Power, editor, has promised to have an early edition. We want you now to start making arrangements to be with us in New York.

We know and realize that owing to the business depression it may create a little hardship for those who have to travel considerable distances to attend. Never in the history of golf in America has there been a greater necessity for greenkeepers, Green committee chairmen and all others interested in the raising of fine turf, etc., to get first-hand information on machinery, products and methods of use.

The Golf Show last year in the city of Columbus saved thousands of dollars for those that attended and bought the latest improved equipment. Those who bought can testify that they were able to dispense with less men and at the same time give better results in the way of service. At our Golf Show you are able to judge the merits and demerits of the various equipment exhibited. You are also able to consult with experienced men as to their qualifications and adaptness for service.

SEND YOUR GREENKEEPER AND SAVE MONEY

THE Golf Show and Conference is attracting nation-wide attention and golf clubs in all parts of the United States and Canada should try and send their greenkeepers to New York City at the club's expense. It will be money well spent, especially when nearly all the clubs by necessity are compelled to cut golf course expenses as low as possible. The three days of intensive study and discussions of golf

course problems under the leading authorities of this country will prove a lasting benefit to those who are able to devote the time and expense to attend.

Our Annual Banquet will be held as usual. Mr. Ganson Depew, chairman of the U. S. G. A. Green Section, will be the principal speaker. Robert J. Hayes, Pelham Country Club, Pelham, N. Y., and John Anderson, Crestmont Country Club, West Orange, N. J., will have charge of the Banquet and they assure us it will be entertaining and enjoyable in every respect.

We will also have our Midnight Stag Show which always takes place the last evening of our Convention. You will have to attend to find out what the program contains.

And last but not least, let me remind you of the Convention. Full reports relative to committee meetings will appear in the next issue of the NATIONAL GREENKEEPER. I especially urge every committee member to be present.

The Convention is what we call the fraternal side of our profession. Here we are able to test the true characteristics of a greenkeeper, so far as concerns loyalty to one another. It will indeed be an inspiration to watch and observe the friendly greetings toward each other, especially upon arrival at headquarters; Walter C. Reed of Saint Louis meeting Grange Alves of Cleveland; Alfred E. Lundstrom of Long Island shaking hands with Alex Binnie of Chicago; Charles Erickson of Minneapolis kidding Joe Valentine of Philadelphia on how to construct a putting green; J. Lloyd of Toronto greeting his old pal, Lewis M. Evans of Canton, Ohio.

These are only a few of the friendly greetings that occur after an absence of one year from each other, for occasions like these are seldom soon forgotten. New acquaintances are formed and old ones renewed. Friendships are made, lasting and eternal. For in the busy cares of our lives many things may occur to engage your attention. Yet it matters little how deftly time will trail the flower of forgetfulness of the past into places where you have spent many happy hours. For often memory's fingers that come to you unbidden will lift the sweetly scented grasses from their dewy glades. And often when the twilight casts its shadowy curtain around the dying day, hiding from view the last warm flushes of the sunset there will come to you borne on the evening breezes of the past strains of music



Exhibition Hall, Hotel Pennsylvania

soft and sweet, the melody which will make glad harmony in your heart.

Our Conventions create these friendly thoughts and it will be only by your presence in New York City next January you will realize our friendly attitude is what we claim.

In conclusion, one of the most difficult problems

which I have had to contend with has been the naming of committees that must be selected to help to guide and promote the general welfare of our Association. Out of over five hundred members everyone qualified to act in any capacity I trust will realize the position I hold in appointments, but I have endeavored to act to the best of my ability.

Golf News

LAKE PLACID, N. Y.

Plans for a new golf course have been completed for 18-hole course at the Whiteface Inn. Henry W. Hayes, Mgr.

* * *

LUVERNE, MINN.

The Luverne Golf Club has made arrangements for a new course on the P. A. Arnette farm, two miles southeast of town.

* * *

LAPEL, IND.

A 9-hole golf course is being constructed on the George Wright Farm. Mr. Herbert Whetsel is President of the Club.

* * *

MIAMI, FLA.

Lease on the Coral Gables Country Club for a period of two years, was granted Mr. Frederick Grinham, 1336 Avenue Obispo.

* * *

WINNWOOD, MO. (KANSAS CITY)

A new golf club, now being organized, will be located just north of Winnwood Beach. This will be nearest course to Kansas City business district.

* * *

RACINE, WIS.

Seventy-five men are being employed each week in construction of Racine's new 18-hole municipal golf grounds; 140 acres will be devoted to this course and will be completed during the summer of 1932.

* * *

MAYWOOD, ILLS.

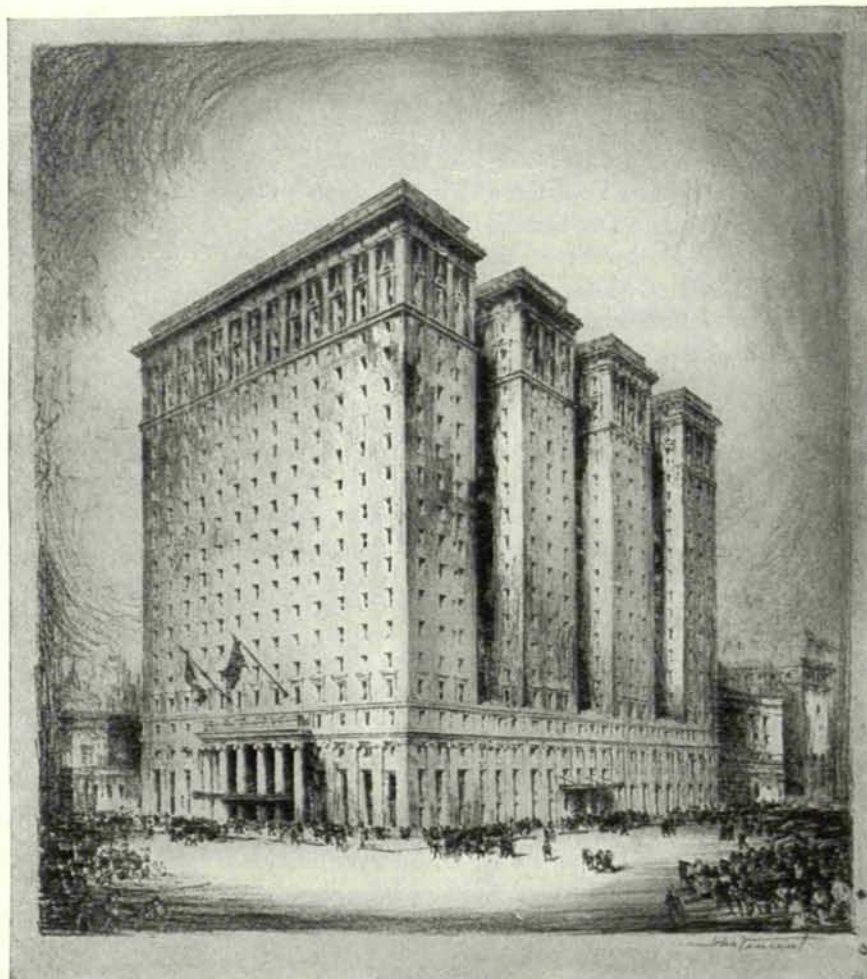
Construction of a 9-hole golf course at Soldiers' Playfield, east of Edw. Hines Hospital is planned by the forest preserve board, according to report of Superintendent Charles G. Sauers.

Convention Headquarters

of the

National Association of Greenkeepers of America

January 19th « » 22nd, 1932



HOTEL PENNSYLVANIA
NEW YORK

STATLER OPERATED

Michigan Greenkeepers School

ANNOUNCEMENT has been received from Doctor C. E. Millar, that Michigan State College, East Lansing, Michigan, will hold a short course for greenkeepers from December 1 to 4. This course will be crowded with interesting subjects and able speakers and indications point to a large attendance. The program follows:

TUESDAY, DECEMBER 1

- 11:00 Registration.
- 2:00 Grasses for Golf Courses—Dr. Monteith, Greens Sections, U. S. D. A.
- 3:00 Examination and Identification of Specimens of of Grasses and Weeds and Round Table Discussion of Grasses—Dr. Monteith and Dr. Darlington.

WEDNESDAY, DECEMBER 2

- 8:30 Introduction of Mr. Herbert Shave, President of Detroit and Border Cities Greenkeepers' Association, who will serve as chairman.
- 8:45 Planting Design for the Golf Course—Professor Halligan, Department of Landscape Architecture.
- 9:45 Diseases of Turf Grasses—Dr. Monteith.
- 10:45 Round Table Discussion of Turf Diseases—Dr. Monteith and Dr. Nelson.
- 1:30 Physical Properties of Soils—Dr. Tyson, Department of Soils.
- 2:00 Examination and Judging of Soils Used by Greenkeepers.
- 3:00 Selecting a Top Dressing Soil to Fit the Green—Dr. Monteith.
- 3:30 Round Table Discussion of Soils—Experiences of Attending Greenkeepers.
- 4:00 Principles of Drainage, Types of Tile, Etc.—Professor Robey, Department of Agricultural Engineering.

THURSDAY, DECEMBER 3

- 8:30 Introduction of Mr. M. F. Webber, President of Western Michigan Greenkeepers' Association, who will serve as chairman.
- 8:35 Fertilizer Principles—Dr. Tyson, Department of Soils.
- 9:15 Fertilizing the Green—Dr. Monteith.
- 10:00 Round Table Discussion of Green Fertilization—Experiences of Attending Greenkeepers.
- 11:00 Shrubs and Hardy Trees for the Golf Course—Professor Halligan.
- 1:15 Certified Seed—Professor Rather, Head of Farm Crops Department.
- 1:30 Insect Control—Professor Pettit, Department of Entomology.
- 2:00 Identification of Insects and Round Table Discussion of Insect Control—Professor Pettit.
- 2:45 Weed Control on the Green—Dr. Monteith.

- 3:15 Weed Control on the Fairway—Professor Megee.
- 3:45 Pumps, Fittings, Etc., Exhibits and Discussion—Professor Musselman, Department of Agricultural Engineering.
- 4:30 Watering Systems—Dr. Monteith.

FRIDAY, DECEMBER 4

- 8:30 Green Construction—Dr. Monteith.
- 9:30 Electric Motors, Lecture and Demonstration—Professor Gallagher, Ag. Eng.
- 10:30 Insect Pests of Trees and Shrubs—Professor Pettit.
- 11:15 Diseases of Trees and Shrubs—Dr. Nelson.

Winter School for Greenkeepers

THE sixth winter school for greenkeepers at Massachusetts State College, Amherst, Mass., is scheduled to open January 4, 1932, and close March 14, 1932. Registrations have been received as usual from the mid-west south to Virginia, from New York, and the New England states.

The courses to be given are the same as last year, namely, Grasses, Soils, Cost-Keeping and Analysis, Equipment, Botany, Drainage, Water Systems, Managerial Problems, and Landscape Appreciation. The duration of the course is ten weeks.

Better equipment and laboratory space is to be provided and an exceptionally well-balanced program of outside speakers is being arranged.

ADVANCED COURSE OFFERED

THE winter course for greenkeepers at the Massachusetts State College now has over ninety graduates. A number of these graduates have applied for a course giving advanced work and an opportunity for directed problem study. As the State College was first to offer a school for greenkeepers, so it is going to be the first to offer an advanced school for greenkeepers.

The advanced school will be conducted at the same time as the regular school, and will be open only to those who have graduated from the regular school. Enough applications have already been received to make the course a very promising one. The two schools will bring together for the ten weeks, thirty-five men whose ages will vary from twenty-two years to fifty years, and experience in golf course maintenance from two years to twenty years.

These schools are conducted by the Short Course department, R. H. Verbeck, Director, and are under the immediate supervision of Professor Lawrence S. Dickinson.

Golf Architecture In Europe and America ~ A Comparison

By T. SIMPSON, *Golf Architect*

London, England

A LEADING English professional has stated in an interview, that he attributes our disadvantage, as compared with American players, to the fact that our courses in England are insufficiently bunkered. This is sheer nonsense; and for the best of all possible reasons, that the multiplication of bunkers, especially of a fair way bunkers, materially assists the good player to steer his shot and focus distance, just as buoys and light-houses assist the skilful navigator to find his anchorage.

In my opinion the superiority of the American player is mainly due to the fact that he takes the game more seriously and devotes more time to practice than we do in England.

There are two schools of thought in golf course design.

(1) The strategic, which prevailed in Great Britain up to 1885, and which still prevails in the best courses laid out during the last twenty-five years in Great Britain, and more particularly in France and Belgium.

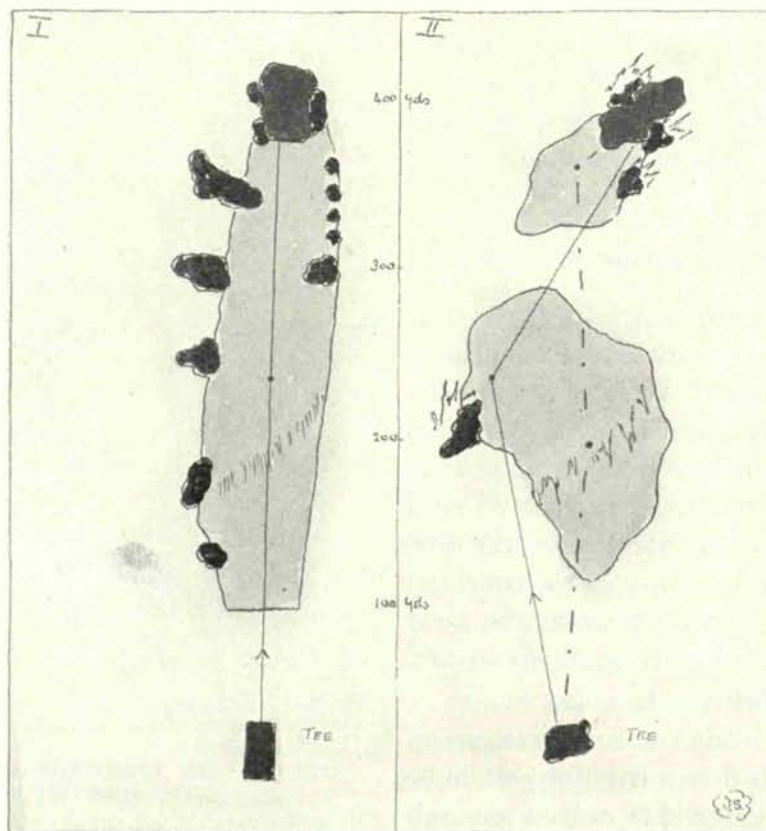
(2) The penal, which relies on the multiplication of bunkers.

It is a fact of some significance that most, if not all, of the advocates of penal methods, whether amateurs or professionals, have been, and still are, players in the very front rank. This fully bears out my contentions that the multiplication of bunkers assists the good player, and that their absence is both

unsatisfactory and disturbing to him.

The majority of the courses in America are penal. In this point lies the main difference between the principles of golf course design in Great Britain and America. I would mention, however, one exception in the fact that one of the most eminent strategic golf architects of the world is an American, practicing in America.

Before going further, it will be advisable to define more precisely what is meant when we use the terms



THE PENAL SCHOOL

THE STRATEGIC SCHOOL

The Tiger plays on the unbroken line. The hole as planned in Diagram II is a far more difficult test for the scratch player, and a fairer hole for the Rabbit, than the hole set out in Diagram I.

"penal" and "strategic."

Broadly speaking, in the case of the penal school, the player is directly punished by the fact of his bad shot being trapped in a hazard. Diagram I, which is the exact plan of the second hole at the Inverness Golf Course in America, is a good illus-

tration of a penal hole. The strategic school, on the other hand takes the opposite point of view in regard to an excess of bunkers as a confession of weakness.

The strategic golf architect, in a word, hides his hand as much as he possibly can, and likes to keep the scratch player guessing. But if he is inclined to stress the advantage of not showing everything that he has in his mind, it does not mean that he will go to the length of actually deceiving the player. The result is that one of two things happens to the "Tiger," either that his good shot, which is not quite good enough, is trapped by a bunker placed at roughly 210 yards from the tee just off his most favorable line to the hole; or that his bad shot leaves him in such a position that, unless he brings off a very exceptional shot, he cannot possibly reach and remain on the green.

Both of these alternatives are well illustrated in Diagram II. This result is gained by the method of the orientation of the green to the second shot and the position of the wing hazards guarding the approach.

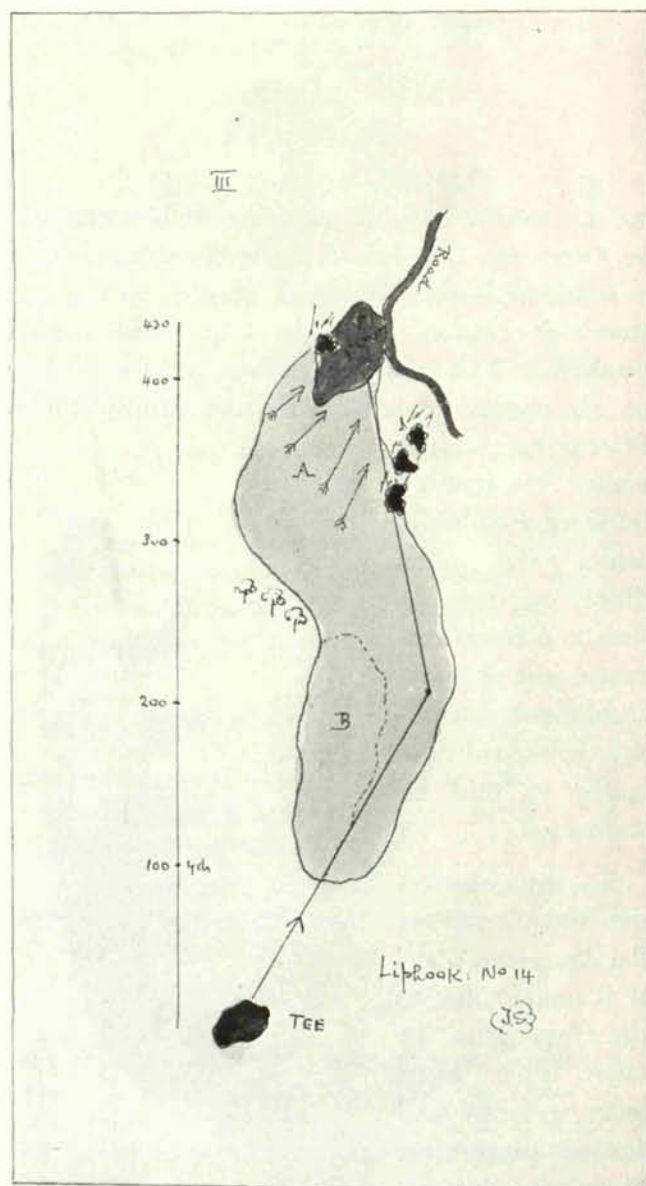
ENGLISH ADHERE TO STRATEGIC PRINCIPLE

IN my own practice, I adhere strictly to the strategic principle, and never countenance the placing of fairway bunkers to catch a bad shot. If the skeleton plan is well arranged, and if the fairways are properly shaped and the greens and their wing hazards are orientated correctly, there is no need whatever for fairway bunkering. In fact, the view I take is that to plaster a fairway or the rough on either side with bunkers merely assists the good player and has the effect of quite needlessly irritating the long handicap man.

I may be asked: "Why do you lay such stress on strategic holes?" My answer is that for golf to be enjoyed at its best there should be at least as much need for mental agility as for physical capacity. Let there be no possible misunderstanding. Nowhere in the world is there a single example of a classic hole that is a straight-forward hole. For a hole to be really great, it must possess the qualities one finds in the man who "lives by his wits," who "sails near the wind," in the conduct of his business.

There must be qualities about a hole that escape the notice of the superficial observer. Take, for example, the seventeenth hole at St. Andrews. This is a hole which Mr. Robert Jones can reach with a

drive and a full iron shot. But when he played and won his last championship at St. Andrews, he never once attempted to be hole high with his second, and for the best of all reasons—that it would not pay him to do so, having regard to the character of the



THIS IS A HOLE WHERE THE LONGEST WAY ROUND, IS THE SHORTEST WAY HOME

The putting green is so fashioned in relation to the tilt on the fairway (left to right) at (A), that it will not receive and hold a second shot played from anywhere in zone (B). The width of that portion of the green between the bunker and the road is 12 yards.

ground near the flag, the small bunker eating into the green on the left, and the road running behind the green.

17TH AT ST. ANDREWS A GREAT HOLE

THIS hole has met with more vituperation than any hole in the world; yet it is without doubt the greatest two-shotter that exists. Its mischievous qualities begin to dominate the player from the