Where there is electricity, however, refrigeration is easy. It is only a matter of putting a refrigerating mechanism into the present club refrigerator, or buying one of the complete units, with the refrigerating mechanism already established in its own cabinet. If the club is large, it may be desirable to do both. Maybe there is a special meat room or cold room, on the order of the walk-in meat box common to the butcher shop or meat market. Some of these boxes are of three or four hundred cubic feet capacity, but this is none too big for one of the modern electric refrigerator units. The large box will take care of meats and other perishables in quantity, such as butter, lard, vegetables, fruits, melons and the like. They can all be kept cold, at a temperature ranging around 35 degrees above zero, Fahrenheit, if desired and without any mingling of odors. Each will come out manifesting its own legitimate fragrance and nothing else.

For the serving pantry a smaller refrigerator, electrically refrigerated, will be handy for keeping the prepared foods, pastries and desserts which are to be served quickly. Of course, for the country club, a big advantage in this system is the freedom from depending upon ice. A further advantage lies in the constant cold, the crisp, snappy temperature which is continuously in the electric refrigerator. Food compartment temperatures can be wherever you want them and always below 50 degrees. Equally important, in the freezing compartment you freeze ice cubes, hard, pure as the drinking water which you pour into the freezing trays and in abundance for all regular demands for cooling drinks and the like.

For the club and restaurant there is a special ice maker, designed to freeze ice

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Complete kitchen outfit suitable for country club. Double range, gas toaster, china, all utensils and silver. H. C. Billig, 33 S. Clark St., Chicago.



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GOLFDOM

cubes as its chief job. There is a deep tray also for freezing ducks and other game. The freezing trays of the electric refrigerator are fine for hardening and holding commercial ice cream. Specialcesserts and salads can be frozen in them, too. Electric refrigeration is one of the most important services which electricity brings to the country club.

Plants Are Simple

Current from the individual electric plant will invariably be of the variety known as "direct," but it may be either 32 or 110 volt. The most common type of electric plant nowadays is the direct-connected. That is, the generator is built into a compact unit with the gas-engine that drives it. This gas-engine, usually a singlecylinder model, is made to turn on the same main shaft which supports the armature of the generator. Gasoline or kerosene will be used for fuel and the principles of ignition and combustion are the same as we find in automobile practice, except that the matter of carburetion is usually considerably simplified. You rarely find any complicated carburetor on an electric plant.

These generating units are made in various sizes, from three-quarter kilowatt capacity up. Probably the most practical method of using these electric plants for the country club is to install one, or two, or more, according to the load, or the probable electrical demand. Small automatic units can be used and the load divided, each plant handling its own circuit or circuits. Whenever a light is turned on or a switch is closed on a particular circuit, the plant connected with it will automatlcally start up and the electric service begins. When the demand is ended the plant stops.

The advantage in such a method is that



you will not have a single large plant, big enough to care for the whole club, running every time and all the time a single light is turned on. Of course, from the standpoint of care and service, one large plant will take no more time than one small one and if there were a continual large load demand the single large plant would be entirely practical.

Operating expense of individual electric plants are not high. When operating at full load a good plant will deliver three or four kilowatts of electricity per gallon of fuel. The cost of fuel and oil for operating will run safely under 10 cents per kilowatt-hour.

Nature can't do the job of entertaining the city visitor all by herself, however, and the country club, planned in whatever one of Nature's beauty spots it may be, must offer a lot of extras, in the way of lights and shower baths and properly refrigerated foods. It can all be done, today, thanks to the fact that electricity can be provided, safely, economically and dependably, in any location, no matter how isolated it may be.

Glen Brook's Story Has Good Organizing Tips

At Stroudsburg, Pa., where the population is approximately 6,000, according to the last available figures, they have the Glen Brook Country club, with a course that will compare favorably with many of the more pretentious metropolitan facilities.

Glen Brook had its start when E. P. Arbogast, a contractor of Stroudsburg, was engaged by Robert White, the golf architect, to superintend the construction of the Wolf Hollow course at Delaware Water Gap, a summer resort. After this work was done, Arbogast got the idea of interesting his own fellow citizens in organizing a golf club. He tells about the history of the Stroudsburg enterprise in answer to GOLFDOM'S request so the moving factors in other new clubs will be able to benefit from the Glen Brook experience. He writes:

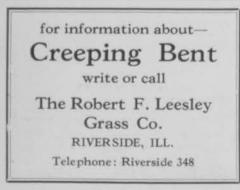
"My first operation was to find a piece of ground that I thought properly located





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and of sufficient size to build an 18-hole golf course. I then procured the services of Robert White, architect, to approve the location and the property as to soil and size, and he laid out the course, made a plan and specifications, indicating on the ground where each tee, green and fairway would be located.

"I made an estimate of the cost of construction for the first 9 holes, with a water works consisting of a 25,000 gal. concrete tank, with 3-in. mains from a spring on the property, located high enough to give us 40 lbs. pressure at the highest green. The cost of constructing the 9 holes, water works, club grounds, and a large practice putting green was \$31,600. The cost of the property was \$15,000, and I arranged a first mortgage on property of \$12,000.

"After this operation we were in a position to state to prospective members just how much it would cost each, and what they would get for their money. A meeting was called by me of five influential business men whose services I wished to enlist to organize a club. I stated to them that if they each would take a \$1,000 share, and sign their name on the dotted line of a contract setting forth everything as stated above, I would procure thirty more names that would take \$1,000 each. that would be paid up by charter members of the club, with non-assessable membership. My agreement with them was, if I could not get the additional thirty names within thirty days, the agreement was null and void. I fulfilled my contract, and payments on the 35 shares of \$1,000 each, were arranged so it took care of the construction as the work progressed. The work started Sept. 1, and my contract called for opening the club the following July 1, which was fulfilled.

"As soon as the work was started we got out an application card, which proved to be very attractive, and we added about 50 names to our membership on the card plan, which you will readily see was for operating expenses after the club had started. These card members and transient golfers, whom we charged \$2 per game or day, was sufficient to take care of the operating expenses.

"From your letter I take it that you want advice and confessions of mistakes, and therefore I think I should tell you that one of the most important matters connected with the starting of a golf club is the thorough understanding necessary

with your charter members, and all members that sign your cards, that until you have sufficient capital to build and operate for the first year, that they are signing a judgment note, or something that is equivalent to cash. We thought we were very careful, but we were embarrassed some in making our payments, and were forced to borrow from the bank and pay interest, which left us about \$3,000 behind the first year because we could not collect the money in time to take care of it. When the money was finally collected, we, of course, were only short the interest.

"I am chairman of the greens committee of the Glen Brook Country club and find time to look after the upkeep of the club as carefully as I do my own business. My experience has been that with most clubs there is useless expenditure of money in their upkeep, and clubs should have someone like our president, C. H. Palmer, who gets the dollar before he spends it.

"Regarding the above, there have been no statements made that are secrets. We are not out of debt, and few clubs are, but we are now contemplating building 9 additional holes this year."

If your club wants a manager, professional, or greenkeeper, advise GOLFDOM. We are in touch with competent men who are available for these positions, and will gladly serve in getting them to submit their qualifications to proper officials in clubs having vacancies.

There is no charge for this service.

GOLFDOM 225 North Michigan Avenue Chicago, Ill.





Leonard Macomber

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FRANK P. MACDONALD GOLF ARCHITECT First National Bank Building Chicago, Illinois

Some Questions on Birds Are Answered

1. Does the grey squirrel, such as we have in this section, keep away the birds? Even if the grey squirrel does not do much harm to the birds in their nests, my impression is that the birds do not like them, especially since they know that squirrels of another color, namely the red squirrel, are enemies to birds.

2. Where should feeding stations for birds on golf courses be placed? and how constructed?

3. What shrubbery would you recommend for nesting sites and for protection in summer and winter storms?

. 4. What berry bearing bushes and trees would you recommend.?—A. W. McAlister,

The Answers

1. The grey squirrel is not nearly as universal a nest robber as the red squirrel. In some sections of the country, observers report that the native birds ignore entirely the presence of the grey squirrel, which is a good indication that they do not fear ii. In other sections, like your own, let but a solitary squirrel, whether red or grey, appear in the vicinity and every bird within hearing will set up an outcry. It can hardly be doubted that in such regions, the birds look upon the squirrel as an enemy and as such, it probably had better be eliminated from your grounds. As shooting is the only practical method of accomplishing this, do not start your warefare on the squirrel until you have checked up on your state game-laws and, if necessary, obtained the permission of the state gamewarden to go ahead.

There is one other point. Whether the squirrel is an enemy of our song birds or not, remember that it is a natural enemy and not man-introduced as are the cat and the "English" sparrow. As long as a single cat or "English" sparrow exists on your property, leave the squirrels alone. After these two major enemies of birds have been abolished, it is time enough to turn your attention to the squirrels.

2. A feeding station can be of any character from merely a cleared open space on your grounds to an elaborate, glass-enclosed house erected on a pole and catproofed. The important thing is to have specific spots where the birds know food will be found at all times.

The most simple practical feeding station is a platform some three feet square with shallow sides to prevent such food as bread-crumbs and grain from being blown off. This platform should be erected on a five- or six-foot post in a spot reasonably removed from trees and sbrubbery so that bird enemies cannot creep upon them as they feed. If you desire, the platform may be roofed and only the side away from your prevailing winds left open.

Many commercially built feeding-shelters are available on the market and most of them are mounted on a pivot so that their open side swings away from the wind. These shelters are not unduly expensive and form attractive additions to your landscaping. We will gladly refer you to the manufacturers on request.

Erect at least one feeding-station in front of your club house porches for the entertainment of your members, and distribute the others over your grounds where in your opinion they will do the most good.

Appropriate foods are wheat, crushed corn, stale bread-crumbs and spoiled fruit, and in winter, suet.

3. Local landscape gardeners and florists can advise on the types of bushes and shrubs that will grow successfully in your climate. What you want are heavy, tangled, patches of bushes and low shrubs thick enough to shield the birds from the summer sun and the cold winter winds, and afford them a retreat from their enemies.

4. The mulberry appears to be the favorite fruiting tree for luring birds, over fifty species being known to eat the fruit. The trees fruit early, bear nearly all summer, and are ornamental enough for the most formal landscape gardening. Any mulberry is good, but some varieties are more palatable for human consumption and should be used. You may as well please the members of your club while you are luring the birds to it.

Next in importance to the mulberry are those shrubs and trees that hold their fruit through the late autumn and winter. These are the months when the birds must struggle for their food and a liberal planting of dogwood, virginia-creeper, privet, and the non-poisonous varieties of sumac will assure the birds of an adequate food supply all winter. Your bird population should increase many fold.

Golfdom Buyers' Guide

Check this page and mail it to GOLFDOM, 236 N. Clark St., CHICAGO

Notify GOLFDOM of your club's requirements for course, clubhouse and pro shop, and you will get prompt and complete details from leading manufacturers. Check, on list below, items that interest you. Add your name and address at bottom and mail to GOLFDOM, 236 N. Clark St., Chicago, III.

Announcement boards Architects-Course, Landscape Auto trucks-bus Bags (golf) Balls **Ball** markers Ball washers Bent stolons Reverages Bird houses Brown patch preventives Buffing motors Caddle badges Caddie (time clocks) China Cigars, Cigarettes Clubs Club racks **Compost** distributors Compost mixers Confectionery Coolers, water Dish washers Display cases Drags Drainage engineers Dryers Dump carts Electric systems Fencing Fertilizer Fertilizer distributors Flexible steel mats **Fire Extinguishers** Flags Flag Poles Fountains-Drinking

Furniture-Clubhouse, Grounds, Porch **Garbage** Incinerators Gum Handleap racks Handicap cards Harrows Heating Systems-Clubhouse, Water Hedge trimmers Hole rims Hose Hosiery Indoor putting surfaces **Kitchen** equipment Laundry equipment Lawn sweepers Linens Lockers Maintenance equipment Mole traps Motion picture outfits Mowers-Fairway, Green, Rough, Tee Mower overhauling Mower sharpeners Organizing service Pipe-Drainage, Water Playground equipment Plows Plumbing supplies Pumps Putting cups Rakes

Refrigerators Rollers-Fairway, Green, Spiked Sand Seed-Fairway, Green Seeders Score cards Showers Shrubs Silverware Sodcutters Soda fountains Soil screeners Soil testers Sparrow traps Sprayers Sprinklers Sprinkling carts Tanks-Elevated, Gasoline, Underground Tea room equipment Tee boxes Tee markers Tee umbrellas Swimming pools Tees-Patented Telephone systems Tennis court equipment Tile-Drainage Time Recorders Tractors Trophies Waste receptacles Water Softeners Water systems Water Wells Weed killers Weed stingers Windmills Worm eradicators

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GOLFDOM

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Editor HERB GRAFFIS

Advertising Manager JOE GRAFFIS

Forms close 25th of month preceding date of issue. Address all communications to home office, Chlcago.

- - Here

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A BRAND new golf ball makes its appearance this year-the Long Flash-a golf ball that has facts in its favor so remarkable, so contradictory, almost, that they may challenge the credulity of any golfer who reads them.

In the first place, it is a golf ball of great endurance.

Five balls, the Long Flash and four wellknown standard brands were placed in two well-known golf schools so that in two weeks they would get as bad a beating as could be given them.

Look at the photograph! The Long Flash stood the hard golf the best. You'd think its cover was made of iron. You'd be justified in thinking, at first glance, that no ball as durable as that could ever fly long-could ever be a coverer of yardage.

Yet the facts are quite to the contrary

Here is the result of the Long Driving Contest held at Hot Springs, Ark., Feb. 9, 1927:

Winner	Silver King	330 yds. 2' 5"
Second	Specially made "pro" ball	321 yds.
Third	The Long Flash	318 yds. 9"

The durability of the Long Flash is accounted for by the unique method of attaching the cover. It "intermingles." It is a unit-tougher than any ball hitherto made.

But, the long flight of the Long Flash is accounted for by the new patented oil-rubber center which gives a flight that no previous

"hard-cover" ball could give. Among 75c balls this new center is exclusive with the Long Flash—the best 75c ball ever made!

Guarantee:

We have such confidence in this Long Flash ball that we unconditionally guarantee it. If you cut thru the cover in ordinary play, you get a new one. Can anything be fairer than that ?





