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August 1979
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GOLF COURSE DESIGN

Some Personal Views on Modern Golf Course Architecture
by
J. Hamilton Strutt, BSc
Chairman, British Association of Golf Course Architects

PART 6

WATER HAZARDS
(LAKES AND PONDS)

BUNKERS AND OTHER FEATURES

Born in Scotland, 20 November 1924. Educated at Glasgow Academy and St Andrews University where he graduated BSc in maths and botany at the age of 19 — one of the younger graduates in the University's 500 year old history. Played both golf and tennis for the University. Served in the war on Operations Research with RAF Bomber Command where he soon led his own section.

In 1945 entered the golf and sports ground construction company which had been founded by his father John R. Strutt in 1919. Studied civil engineering and surveying at Strathclyde University and for the next 15 or so years, first based in Scotland then in Poole, Dorset, was responsible for the execution of many major golf and sports ground construction contracts throughout Great Britain and Ireland. Regards his early years spent travelling and working on golf course construction with some of the great golf architects of the day, people like James Braid, Philip Mackenzie-Ross and John Morrison, as being the best possible training for golf architecture.

Commenced designing over 30 years ago and gradually gave up the running of the family construction company to become a full-time golf course architect. Prefers to work on his own because of the greater freedom this gives to pick and choose commissions and for the satisfaction of following projects personally from beginning to end.

Has worked in all countries of the British Isles, France, Spain, Scandinavia and the Middle East. Speaks French, German, Spanish and Norwegian.

Founder member of the British Association of Golf Course Architects and current Chairman. Past Captain of Parkstone Golf Club. Lloyd's underwriter. Member of the R & A and honorary member of several other golf clubs.

Forget for a moment all that I have said earlier about the general principle of not penalising beginners and older golfers unduly — water hazards are fun!

Used properly, water hazards make excellent strategic golfing features, embodying an ultimate challenge which everyone from beginner to Open Champion can enjoy. I usually try to include two or three (seldom more) on new courses which I design and find they are invariably among the more popular holes on each course.

Four overriding principles should, I consider, apply to all water hazards:

I. Do not have too many. They will lose their impact and the number of lost balls resulting benefit only the golf ball industry. I fear our American friends may sometimes err in this direction.

The writer plays the 9th at Pienecourt, Normandie. I made this trout filled lake a dominant feature in the strategy of several holes.

(NB Normally it is wiser to make sure no one is watching when playing over one of one's own water hazards!)
Low centre of gravity and wide track means the Allen National 84 takes bankwork in its stride. Free floating power driven cylinders hug the ground contours providing a fine even finish over a full 7 ft. cutting width. Functionally designed as a commercial quality machine to cut grass continuously day in day out throughout the cutting season means you really can bank on the National 84 for low cost, high output grasscutting. Send for details and read the full story today.

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Golf Greenkeeping and Course Maintenance
2. All water hazards should be clearly visible. A green side hazard approached from a high tee or fairway is ideal.

3. The player should always be tempted to "have a go" and be well rewarded if successful.

4. Never at the first hole — much too sadistic!

Water hazards are of three kinds: (1) Existing. (2) Excavated in wet areas (no lining required). (3) Excavated and lined.

Existing lakes, etc.
Maximum possible use — both strategically and scenically — should be made of any existing lake, or even stream, with which a site may be blessed.

This seems so obvious that I am always surprised at the number of courses, even quite well known ones, where such priceless natural assets are only used to a very limited extent. Probably legacies of insufficient time and thought at the layout planning stage.

Artificial lakes etc.
The 12th at Meon Valley is an example of how a water hazard may be used to enable a hole to be constructed in what was originally a useless marshy area. Material excavated to form the lake is used to raise the green and surrounds well above the adjoining water table.

No artificial pond linings are needed when natural sites like this can be found. In cases where a lining proves necessary there are a number of points which should be observed if failure is to be avoided. These may be summarised as follows:—

1. The water hazard should be excavated with very gently sloping sides — like a saucer in section, not a cake tin!
2. The base for the lining should be carefully smoothed and sharp stones removed. Really dry weather is obviously essential.
3. The lining should be of 1000 gauge black polythene and jointing of the seams must be carried out with great attention to cleanliness. The least bit of dust or earth on the edges to be glued can cause leaks later. I would normally recommend that a specialist contractor be used to supply and lay the lining. There are several experienced firms around.

4. After laying, the whole lining should be covered with at least 8 inches (20 cm) of earth or, preferably, coarse sand or gravel. Inadequate coverage near the edges (often the result of slippage due to too steeply sloping sides) exposes the lining to damage from golfers’ spikes. The lining should finally be anchored by burying in a peripheral trench. To speed establishment, banks are best turfed to just below the proposed final water level.

5. Please try to ensure that the finished result looks completely natural!

Every opportunity should be taken to make use of natural sources of water (e.g. by diverting streams or drainage) to keep any water hazard "topped up". At St Mellion, near Plymouth, all surface water from the very large Club House Complex is led into the artificial water hazard which features the 18th green. Both here and at Glendoick Golf and Country Club, Langbank, near Glasgow, the adjoining water hazards act as the reserves for fire fighting required by the fire authorities and which would otherwise have had to be especially constructed. Thus there has evolved a neat symbiosis between Club House and Water Hazard.

Thought for today
No matter how short, every player should be able to reach some kind of fairway from the tee. Do not make it impossible for older golfers to enjoy an occasional Medal!

All that is required is to mow out an extra narrow tongue of fairway at holes where there is normally a big carry. The extra "landing zone" need only be quite narrow and irregular — very short hitters can reasonably be expected to be very accurate, as many of us know to our cost!
Golf Course Vandalism

THE RENDING OF THE GREEN

by Roger D. Sandy

Vandalism is on the rise in all facets of business and industry, and golf courses, regardless of their size, have become a prime target. Golf courses will continue to be prime victims of this destruction, probably because of the obvious effort spent to make them beautiful.

Why do people vandalize? Were I to have that answer, my services would be booked solid for years. No one becomes a vandal with the mere flick of a switch. Some motivation, thought or act must be a catalyst.

What kind of person is a vandal? A vandal wants to see the results of his handiwork. There’s no enjoyment for him if he can’t see the tire ruts he’s left in your green, the roots of a shrub he’s pulled out, or the cracked glass from a window he’s smashed. The vandal is afraid of the dark and needs some kind of illumination to accomplish his deed, be it headlights, course security lights or daylight.

Let’s categorize the golf course vandal:

1. The Malicious Mischief probably is the most annoying vandal to the golf course superintendent because he seems to strike throughout the entire season and he is expensive to clean up after. The Malicious Mischief is known by the broken rakes, flag sticks, tee markers and ball washers he leaves behind and by minor damages to greens, bunkers and tees.

2. The Petty Larcenist is frustrating to any operation, but especially to the golf course superintendent. We have all seen what he takes from the golf course. What does he do with a complete ball washer, tee markers from six tees, or flags from holes 7 through 12? Undoubtedly these items wind up as trophies for his room.

3. The Vandal is the person suspected of damaging your course better than I. What follows are several incidents of vandalism caused by a Malicious Mischief, a Petty Larcenist or a Vandal. I have not identified individuals or clubs involved in order to protect those courses from repeated offenses, but all the incidents are true.

A course in the downtown area of a major western metropolitan area was damaged when the name “Fort Logan” was dug into the surface of the No. 1 green. Damage amounted to approximately $150. Numerous other vandalism incidents have occurred on this course because of its proximity to the city. Additional security forces now check the area 24 hours a day and the golf course is bordered by a fence.

It is believed that two Malicious Mischiefs were involved in this incident, although no one was apprehended. Without a doubt, these individuals just happened to be near the course and did this on the spur of the moment, probably trying to impress someone else.

Greens on a Texas course were defaced over a period of several weeks by two 12- or 13-year-old youths who put cactus and excrement into the cups and completely covered them with sand. The boys were apprehended by players during a tournament and the police were notified. At a meeting with the police, the boys, their parents, the club professional and superintendent, it was decided that the boys would be punished by cutting weeds with a hand grass-whip for two hours a day for two weeks. In an effort to involve the parents, the hours set for the boys on Saturday and Sunday were from 6:30 to 8:30 in the morning. The two Malicious Mischiefs have not been a problem since that time. Additional fencing has been erected to help prevent future vandalism attempts.

A Midwest golf course was bombarded with fruit from a passing airplane. The No. 15 green was dented one to two inches deep. Damage was approximately $200 plus recovery time for the green. Undoubtedly, this incident involved more than one person, and certainly the individuals who pelted the course were aware of what they were doing. Police were notified but no one was apprehended.

The same golf course was damaged when individuals broke into the cart barn and drove golf cars over the tees, greens and fairways while there was a heavy frost on the ground. Golf cars are involved in many cases of vandalism, but the vandals in this case probably didn’t understand the seriousness of the damage. Recovery took about 60 days. Police were notified but no one was caught. The club has since hired guards with trained dogs and the number of incidents of vandalism have been reduced considerably.

A Southern course lost about $1,300 in hardware and $500 in turf damages during several months when almost everything loose on the course was either stolen, broken or thrown into nearby lakes. The putting greens were gouged and torn. The majority of the damage occurred on the back nine where all of the houses were worth $60,000 to $250,000, and there were street lights every 100 feet.

A physical barrier such as a fence or a wall doesn’t seem to deter vandals in their quest to damage a golf course. A Midwest course, which is completely surrounded by a fence, has had staggering losses from vandalism.

Three 13- to 15-year-old youths are suspected of damaging the surface of three putting greens at this course and stealing four sets of tee markers and seven flags and flag sticks. Damage amounted to $124.95, although repair costs were approximately $300, plus recovery time.

This same course was damaged...
90 days later by three or more youths thought to be in the same age bracket as the previous vandals. During their foray on the course, the vandals gouged the putting surface on four greens; tore off all the shingles from a shelter house on one of the tees; broke two drinking fountains; cut up an irrigation hose; stole screws, caps, discs and nozzle assemblies from 11 irrigation heads; broke the assembly of another head; and stole five flags and flagsticks, 15 sand trap rakes and six sets of tee markers. Damage was assessed at $8845 but repairs cost more than $1,000 plus recovery time. No suspects were apprehended.

Police apprehended five 18- and 19-year-old men on a Northeastern golf course as they were chopping down a 75-foot silver maple tree near the 17th hole. Neighbors, who had been alerted by the sound of the ax blows, notified the police. An arborist estimated damage at $1,500. The amount was proportionately paid by the boys' families.

All five of these young men, who were graduating high school athletes from relatively affluent families, visited the superintendent the next morning and apologized for their part in the act. Additional trees have been planted on the course, but it will take years for them to equal the loss of this single tree. The local newspaper reported the incident.

Such incidents as this undoubtedly are motivated by peer pressure. It is questionable if any one of these young men would have attempted vandalistic acts by himself.

This same club incurred $4,000 damage when a 19-year-old drove his car down the fairways at high speed. He rutted and tore up fairways and greens on the 7th, 10th and 13th holes, fairways on the 11th and 15th holes, and the green on the 12th hole. The car got stuck in at least one sand bunker. While trying to free it, the vandal lost his wallet, which was found the next morning.

The young man, who was unemployed at the time of the incident, was arrested and prosecuted. His insurance company paid the property liability claim as it was submitted. This occurrence was publicized in the local paper and probably helped deter future vandals.

A Texas course was damaged in a similar manner when a car entered the course from a bordering park and sped towards the No. 5 green. Once he hit the green, he applied his brakes and slid, then backed down the center of the green and retraced his original path onto the course. Ruts on the overseeded Bermuda green were 1 to 1½ inches deep and 8 inches wide. Damage was $2,500 with a 45-day recovery period for the winter turf. Fortunately, no significant damage to the summer grass was noticed following transition the next spring.

This act of vandalism apparently was the result of a police chase. The suspect had been surprised while burglarizing a home in the neighborhood. He was unfamiliar with routes of escape and the golf course just happened to be in the way. The suspect was never apprehended for either the burglary or the vandalism.

Less than 500 square feet of the putting surface sod was left intact when a vandal drove across the No. 11 green at a New England golf course. Turf was thrown more than 40 feet by the spin of his tires, and damage amounted to approximately $12,000, which included rebuilding the green. The course was vandalized in the late fall and the surface couldn't be repaired before winter.

There were two similar events on the same course during the month preceding the destruction of the green. A vandal spun his wheels and circled around the No. 11 green and fairway. Five days later, the act was repeated on the No. 9 green. Fortunately, the golf course crew was able to resod and topdress the damaged turf.

The vandal who is blamed for all three incidents gained access to the holes by driving down a service trail. No one was ever apprehended.

The trail has been blocked at both ends with locked, steel gates. Large boulders have been placed along trails and roadways to provide additional security.

Vandalistic acts such as this one are the ones you don't like to read about and dread experiencing even more. Once started on his act, the vandal generally continues to rampage until his motivating factor is satisfied or some outside force distracts him. In this instance, it almost seemed that the vandal was seeking revenge for the repair work, if in fact all three incidents were the work of the same individual or group.

A former crew member and eight friends caused $22,500 damage to a club in the Northeast. The boys removed 12 golf cars from the storage area where the former employee had worked. While driving around the club and course areas, they smashed through two fences, battered in the side panels of two members' Cadillacs, then systematically destroyed the golf cars. The young men used a sledge hammer to crush the cars' tops, bodies and batteries. They slashed the tires and scattered the remnants of their work over the area and into the lakes.

The young men were not prosecuted for this act, but a local judge sat as an arbiter at an informal hearing of the case. It was decided that each of the parents would pay one-ninth of the total loss and the boys would be required to work for the club for a month. The money earned would be returned to the parents. A deal was struck between the boys that everyone would finish the work.

Their first task was to dig a trench one foot wide by two feet deep and 500 feet long. They then had to lay irrigation pipe and cover the trench. The remaining time was spent clearing an adjoining forest that recently had been logged. The boys cut brush and carried out eight-foot sections of timber on their backs. All the supervisors' salaries were included in the amount the parents paid. No publicity was given to the incident or to the punishment, except word-of-mouth through the boys' peer group.

These boys had never before worked a physical job and there were many blisters, sore muscles and strains before the work was completed.

These are only examples of vandalism. Other cases can be found to lesser or much more serious degrees, but all instances of vandalism are despicable.

Vandalism incidents are newsworthy, but does publicity help or hinder the superintendent? If van-
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Vandalism happens and regardless of what triggers the culprits, it will continue.

Can we prevent vandalism? Without isolating its causes, we will never cure the problem. We will live with it and secure our courses as best we can within reason and budget limitations.

Young people probably always will expend some of their excess energy vandalizing, and golf courses are bound to remain an attractive target in spite of our best efforts. Let us take all the precautions we can, get to know our neighbors, make friends of the young people who live and play nearby, and then deal constructively with problems as they arise.

Earlier I said that the vandal needs to see the result of his handiwork. To publicly describe it to him with all the details only reinforces his ego. This we can't afford.

To completely secure your golf course, particularly from vandalism, would be cost-prohibitive. A security system can be devised, but member golfers don't want to be bothered with security details similar to those found at Checkpoint Charlie on the Berlin Wall.

Any good perimeter fence or fencing system is a deterrent only to the average person who is not interested in vandalizing your golf course. If the vandal wants in, he'll go over, under or through a fence. Lights are no solution either, unless you keep complete visual observation of the entire area. The vandal needs and wants light. He may use darkness for his entrance and exit, but when he is busy doing his thing, he needs light.

If at all possible, protect your course from motorized vehicles with gates, chains or guards.

It is the youth of our community who vandalize. What motivates these young people? Is it just because a golf course is there? Because it's an attractive nuisance or the playground of the affluent? Is it peer pressure generated by our fast-moving society? Is it retaliation or revenge?

I'm not sure what the answers are. Vandalism happens and regardless of what triggers the culprits, it will continue.

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Dear Sirs,

We were interested to read the feature on irrigation and drainage in the last issue. Predominantly utilizing the Toro range of irrigation equipment during the past year we have designed and installed fully automatic irrigation systems on over 14 golf courses (full systems), updating and extensions to existing systems have been carried out on 10 others. It may also be interesting to your readers that fully automatic irrigation systems have been installed by us on the following professional football pitches during the last 12 months. These are Aston Villa, Birmingham City, Tottenham Hotspur and Everton. Previously we had completed Manchester City and Manchester United, Derby and Sheffield United. This shows very much the versatility of the Toro 640 sprinklers which is really the only sprinkler on the market to be suitable for installing on the playing surface. A sample of the golf projects completed this year are:—

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- Pyle and Kenfig Golf Course, South Wales — 18 holes.
- Barhill Golf Club, Paisley, Scotland — 18 holes.
- Howley Hall Golf Club, Batley, Yorks — 18 holes.
- Knaresborough Golf Club, Yorkshire — 18 holes.
- Patshull Golf Course (new), Wolverhampton — 18 holes.
- Inglis, Preston (new) — 18 holes.

Amongst installations yet to be installed in the next few months are:—

- Alwoodley Golf Club, Leeds — 18 holes.
- Eaglescliffe Golf Club, Cleveland — 18 holes.
- Monmouthshire Golf Club, Abergavenny — 18 holes.

Any irrigation system is as good as the design and performance specification put forward, coupled with the basic quality and standards of installation. The cost of a system is determined by these facts, and unfortunately there are still companies who are prepared to lower standards of both design and installation in order to obtain contracts.

The Jacobsen Turf King, as illustrated on this month’s front cover (unadorned unfortunately) is one of the most successful machines from the Jacobsen range. The Turf King has been in use in this country for over 14 years and is ideally at home on a golf course. It is the versatility of this machine which makes it attractive to the average Greenkeeper. As illustrated, it demonstrates that it is one of the few triples which can collect grass trimmings as well as letting them fly. Also notice how the front unit cuts the grass before the wheels have passed over it.

The machine itself is powered by a 14 hp Kohler engine and whilst the cylinder speeds are constant, the forward (or reverse) speed of the machine is variable, thus giving a complete range of cuts per yard. The two wing cylinders can cope with contours and will continue to cut even when ground levels vary as much as 22°.

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August 1979
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In our June issue we published the above cartoon and invited readers to submit a suitable caption. We now publish three of the entries.

From Adrian Robertshaw of the Northern Section:
*With petrol prices as they are, I'm having mine converted to run off hot air. It should be cheap and plentiful, I'll just fill up monthly at the Greens Committee Meeting.*

From Michael Lathrope, East Anglian Section:
*It's not what you know, it's who you know.*

From A. E. Fyles, North West Section:
*Who gets the biggest slice of the cake? Plain to be seen.*

Adrian Robertshaw has been adjudged the winner and at his request his winner's cheque for £5 has been sent to a children's charity.

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There's a choice of 50 or 60 inch out front rotary cutters. And a pussyfooted anti-scalp facility.

Both operator and environment will appreciate the stealthy quietness.

Groundsman's and Greenkeeper's happiness is a Turf-Cat — no purrrr-haps about it!
The Jacobsen Greens King, supplied complete with grass boxes and front rollers, is the ideal greens machine for you. Powered by a 14HP engine, it can cut an average 18 hole golf course in less than four hours.

Jacobsen engineering can provide you with the following features:

- High quality cut on your greens
- Regular vertical mowing to give good grain control and remove thatch
- Tight turning radius on difficult greens
- The ability to select any of the three reels for the final pass
- Excellent weight distribution eliminating tyre marks and compaction
- Operator comfort and ease of control including the ability to get on and off the machine from either side, making for operator efficiency
- Two transport speed ranges giving the operator the ideal speed between greens

The Jacobsen 70" Triples Trimmer is the answer to quality mowing in areas which require a lot of manoeuvrability. It is ideal for getting under overhanging branches and shrubs and will cut around trees without a second look.

The Jacobsen 70" Trimmer provides:

- Strength, giving long working life
- Power, with eight HP engine
- Operator comfort and ease of control
- Up to four miles per hour mowing speed
- Transport speeds in excess of 7 miles an hour
- High stability for banks and uneven areas
- Grass boxes, front and rear rollers, supplied as extras

The Jacobsen Turf King comes in two sizes of 76" and 84" width of cut to give the user the ideal machine for his application. Powered by a 14HP engine through hydrostatic transmission and controlled by a single pedal the Turf King can cope with almost any conditions. The constant cutter speed can give a wide range of finishes from extra fine for quality turf to a standard acceptable for parks and recreation grounds all in the same machine.

The Turf King gives you all you could ask for including:

- Good curb-climbing for road verges
- Hillside stability for mowing slopes
- Ease of control and operator comfort
- All-day petrol tank to save time on refuelling
- Fully articulated units which follow uneven ground contours
- Grass collection boxes and rollers supplied as an extra

Demonstrations arranged.

Please send me complete details.

NAME ____________________________

ADDRESS ____________________________

MC Marshall Concessionaires Ltd
Oxford Road, Brackley, Northamptonshire NN13 5EF
Tel. Brackley (0280) 703134 Telex 837593

August 1979
PLANNED REPLACEMENT OF MACHINERY


I want to take this opportunity to speak about a subject I feel very strongly about and, as I suspect the majority of Head Greenkeepers will agree with me, I am going to address most of my suggestions to the Secretaries and Club Captains who are our guests today.

Quite often, when we show a Golf Club a new piece of machinery, we are told: “It's a marvellous machine, and we'd love to have one, but we can't afford it as we've just spent £50,000 on the Clubhouse”. The purchase is then deferred for a year or perhaps two years.

Of course, we're disappointed because we have lost a sale but, equally important, we realise that we have failed to convince the Club's Committee that the purchase of the right machine could have saved the club money, apart from helping to improve course standards.

We realise that a successful club must have good clubhouse facilities, but surely the standard of the course is equally important.

After all, Golf Clubs are small businesses and, like us, you need to keep a careful eye on the balance between Income and Expenditure.

I'm sure that, for most of you, a look at your Club's Income and Expenditure Account will show that revenue from Green Fees and Societies is nearly as much as from Annual Subscriptions — certainly far more than say Bar Profits. You need visitors and, however impressive the Clubhouse, we all know that it is the quality of the course that visitors remember when they leave.

Your Accounts will also show that course labour costs are easily your biggest single overhead. Consequently I would suggest that to stay solvent (let alone improve standards) you have no option but to run the club as a business, and give priority consideration to the major items of Income and Expenditure.

In our business, we face the same problem as you — our biggest single overhead is wages. In fact labour costs are continually escalating, and staff of the right calibre are increasingly difficult to find.

We are all trying to keep overheads down, while attempting to increase standards. It's a serious problem, and there is no simple answer, but I believe there is only one course to follow for a successful business, whether it be for a family firm or a Golf Club: RETAIN A NUCLEUS OF WELL PAID, SKILLED AND EXPERIENCED STAFF BACKED BY CONTINUING IMPROVEMENTS IN MECHANICAL AIDS.

In our case, we use mechanised loading devices, fork lift trucks, mechanical spinners, cleaning machines, computer stock control. We also have a regular replacement programme for all our Hire plant and Vehicles.

We've learned that one good man, with the right facilities, will often do the work of two, and consequently we pay our staff as much as we can afford, and give them the best equipment. We've learned (the hard way!) that this policy saves us money in the long run.

I would suggest that if you look at your own Club's Income and Expenditure Account, you will agree that you too have no option but to mechanise where possible, if you wish to keep overheads in check.

Of course, you cannot keep a Golf Course in good condition without first class staff — as in our business, your best staff must be your most valuable asset. It is essential that you gain maximum benefit from this asset, and I hope the following suggestions may enable you to cut costs and improve standards on your course.

PLANNED REPLACEMENT OF MACHINERY

Why plan ahead? Most of us, if we're honest, will remember only too well occasions when we should have replaced a machine earlier. We didn't, and so we had to put up with:

- Increasing breakdowns and repair bills.
- Higher running costs.
- Inconvenience to staff (and sometimes golfers) because a key machine is out of action

Higher labour costs caused by what the Americans call "downtime". We are suddenly faced with a choice between an expensive repair bill or the cost of buying a new machine, and either way we may be faced with delays before the machine is in operation on the course. We may not have the finance that these new machines are available, and there may be a delay in supply.

All in all, we have incurred a substantial loss of time and money, which we could not afford and could have avoided.

Our firm have had the same situation. I can remember saying "this hire machine is only three years old — let's keep it for another year". Soon afterwards we had breakdowns, loss of hire revenue, and high repair bills, apart from inconveniencing our valued customers.

Now we've learned our lesson and we have a planned replacement programme for every hire machine and vehicle on the firm. For example, Rotary Mowers are replaced every year, and vehicles every two or three years.

I would suggest you do the same, and the chart illustrated (Example 1) will show you what I mean. I must emphasize that these figures are not intended to illustrate the maximum working life of a machine — rather the time when it would be economic to change a machine before major wear occurs. Some Golf Clubs have kept their Tournament Triplex for six years, but several customers now replace the machine after the third season's use, because they rely so much on the Triplex during the cutting season.

As operating conditions vary on each course, the chart should only be taken as a general guide.

EXAMPLE 1:
Planned replacement of machinery on a golf course

<table>
<thead>
<tr>
<th>Machine</th>
<th>Years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flymos</td>
<td>1-2</td>
</tr>
<tr>
<td>Rotary Mowers</td>
<td>2-3</td>
</tr>
<tr>
<td>Auto-Certes</td>
<td>4-5</td>
</tr>
<tr>
<td>Marquis</td>
<td>4-5</td>
</tr>
<tr>
<td>Tournament Triplex</td>
<td>5</td>
</tr>
<tr>
<td>Ransomes Motor Rake</td>
<td>5</td>
</tr>
<tr>
<td>Cushman Turf Care System</td>
<td>5-7</td>
</tr>
<tr>
<td>Trailed Gangmowers</td>
<td>6-7</td>
</tr>
<tr>
<td>Hydraulic Gangmowers</td>
<td>5-6</td>
</tr>
</tbody>
</table>

Note — While customers' conditions may vary considerably, we suggest that planned replacement is made before major wear occurs.

Golf Greenkeeping and Course Maintenance
course, you will need to work out your own replacement programme, but the simple rule is "Replace before major wear occurs". If you can do this you will be able to:

- Reduce inconvenience and lost time
- Reduce repair and running costs
- Ensure reasonable part exchange value
- Ensure finance for new equipment is available when needed
- Order early from supplier and minimize delay in supply of new machines
- Continually update to latest, time-saving machinery
- Keep happier staff.

Some clubs do plan ahead, and continually update their machinery and maintenance methods. It's no coincidence that members and visitors at these clubs often remark on the improvements in standards on the course — better bunkers, greens, tees or fairways. But others still believe that new equipment is an expensive luxury, only afforded by the wealthy clubs. They prefer to stick to existing maintenance methods and keep their old machines running, sometimes almost regardless of repair costs.

These clubs will spend money on "Bricks and Mortar" — extending the Car Park or Dining Room — but don't appreciate that investing in new equipment can reduce overheads, as well as help to improve the course.

If the Greenstaff are hard-pressed, they will often take on an extra man, costing the club £4,000 or £5,000 a year, although they have no guarantee that the new man will be any good. The tragedy is that the Head Greenkeeper may well prefer to supplement his existing staff with a time-saving machine — probably at less than half the cost.

The smaller the budget, the more important it is to reduce labour costs to the minimum, and mechanise. Consequently, it is not the large clubs who have the greatest need for the best equipment, but the small clubs, who have less income to spare on high labour costs.

A very good illustration of this is the recent acquisition of a Cushman Turf Care System by a small Nine-Hole Golf Course near here. They have only 250 members (including juniors) and two part-time Greenstaff, but they were very keen to improve the standard of the course. To carry out the necessary routine maintenance such as aeration, spraying, top-dressing and fertilizer spreading they needed to buy or hire more equipment and take on additional staff to do the work. Instead of this, they decided to lease a Cushman Outfit for about £40 per week, and save the cost of employing an extra man.

On the other hand, we had to wait two years before another very wealthy and famous course ordered their Cushman. This course has over a thousand members and sixteen Greenkeepers, and when we first showed them the Cushman, the Head Greenkeeper told us that in one day we had saved him a month's work. There was no question that the machine would have paid for itself in six months, but the club decided to purchase at a later date. They could afford high labour costs, but the small club could not.

**EXAMPLE 2:**

**Mechanising to reduce labour costs**

<table>
<thead>
<tr>
<th></th>
<th>With Ransomes Motor Rake</th>
<th>By hand</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bunkers/week</td>
<td>£200</td>
<td>£200</td>
</tr>
<tr>
<td>Man hours/week</td>
<td>£10</td>
<td>£24</td>
</tr>
<tr>
<td>Capital cost</td>
<td>£1,800</td>
<td>—</td>
</tr>
<tr>
<td>Annual cost</td>
<td></td>
<td>£360</td>
</tr>
<tr>
<td>Depreciation (5 years)</td>
<td>£1,000</td>
<td>£2,400</td>
</tr>
<tr>
<td>Labour (£2/hr — 50 weeks)</td>
<td>£250</td>
<td></td>
</tr>
<tr>
<td>Running costs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Annual cost</td>
<td>£1,610</td>
<td>£2,400</td>
</tr>
<tr>
<td>Saving by using Ransomes Motor Rake (per annum)</td>
<td>£790</td>
<td></td>
</tr>
</tbody>
</table>

**WHAT MACHINES CAN SAVE TIME ON THE COURSE?**

Well, there are many, but here are some that are in use on several Golf Clubs in the neighbourhood:

**Ransomes Motor Rake**

(See illustration — Example 2)

At my own club, the Head Greenkeeper ordered a Ransomes Motor Rake, and the saving was £790 per annum. The Head Greenkeeper told us that in one day we had saved him a month's work. There was no question that the machine would have paid for itself in six months, but the club decided to purchase at a later date. They could afford high labour costs, but the small club could not.

**EXAMPLE 2:**

**Mechanising to reduce labour costs**

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<td>£790</td>
<td></td>
</tr>
</tbody>
</table>

**Cushman Turf Care System Cuts Costs**

Purchase the basic CUSHMAN TURF TRUCKSTER 18 H.P. Vehicle — then add as many of the modular accessories as you need for the work you have to be done. No need to buy another expensive vehicle. In minutes you can attach the module you need by using simple pins that slide in and out. No need for tools.

**TOP DRESSING**
1 Green accurately in 10 minutes. Mounts on Truckster Chassis.

**SPREADING**
Spreads 40' wide.

**SPRAYING.** 18 Greens in 2 hrs.
Precise spraying rates

**QUICK AERATING.** 18 Greens in half a day.
Deep slicing, coring, or open spoons.

**SPIKING.** 18 Greens in 2½ hrs.

**GREENSAVER AERATOR**
with core collection. Ten times faster than other methods.

**CUSHMAN travels at speeds up to 22 m.p.h. between jobs, and will pull standard set of three gang mowers.**

Get the facts TODAY from:—

**Huxleys**

**GRASS MACHINERY**

22-26 Church Street, Staines, Middx.
(Staines 51123)

The Dean, New Alresford, Hants.
(Alresford 3222)
Turn the visiting teams green with envy

A fine playing surface shows you've done your best by the home team.

But fine turf needs lots of care and attention all year round.

Fisons Greenkeeper* range provides a really effective answer to feeding and encouraging grass.

There's Greenkeeper 1 for autumn and winter treatment to encourage root growth.

Greenkeeper 2 is for spring and summer top-growth.

And there's also a combined fertilizer and weed-killer with Greenkeeper Plus.

Some fertilizers leave a patchy, unsightly surface and even badly scorch the grass after spreading. Not the Greenkeeper range.

Greenkeeper's new formulation of fine-particled, peat-based granular fertilizer is unobtrusive even immediately after spreading.

And being peat-based it is readily absorbed into the soil.

Greenkeeper is a lightweight granule which makes for easy and even spreading and minimises any risk of scorching.

Each bag weighs only 28kg (61.71 lb) but is sufficient to treat 800m² (956.8 sq.yds.).

The final result being that when the home side plays they're already on a winner.

Fisons Greenkeeper 1, 2 and Plus

August 1979
TURF AS IT SHOULD BE

* Grown from selected amenity grass seeds in light stone-free soils.
* Available in several textures, all beautifully consistent in quality.
* Harvested in square yard rolls, easy to handle, quick to lay.
* Supplied virtually all year round, anywhere in the Country.

ITS NAME — Rolawn

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ELVINGTON
YORK YO4 5AA
Telephone (0904) 85 406
Telex 57796 ROLAWN G

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OF CROYDON AND BARNET

With pleasure announce that they hold the greatest concentration of lawn mower spares and lawn mower engine spares in the country

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Also ASPERA, B.S.A., BRIGGS & STRATTON, DENNIS, HONDA, J.A.P., VICTA, VILLIERS

OUR FLEET OF VANS IS OCCUPIED DAILY IN MAINTAINING OUR EXPRESS SPARES DELIVERY SERVICE

Telephone your immediate requirements to
SEE US AT MOTSPUR PARK
STAND 1, AVENUE F

Golf Greenkeeping and Course Maintenance
says that time on Bunker Maintenance is now a third of the time previously taken using hand rakes. The members have also remarked on considerable improvement in the condition of the Bunkers, since purchase of the Motor Rake.

Mountfield Multi-Trim
Three times faster than using a handsickle for trimming edges and clearing overgrown ditches. No more bending!

Ransomes Hydraulic Gangmowers
Quicker compared with trailed gangmowers.
Ability to cut over edges eliminates a lot of extra trimming up with small rotary mowers.
Ability to cut in wet conditions saves extra time.

Cushman Turf Care System
(See illustration — Example 3)
Every user in this country (nearly 100 now) will confirm that they regard the Cushman as essential equipment on a Golf Course.

Some Cushman users are now able to aerate their greens once a week, and have reported a dramatic improvement in the quality of their Greens as a result.

Remember that every hour saved can reduce your overheads by £2 or £3, or create extra time to be spent on other jobs which your staff may never get round to doing. Many clubs, like Meon Valley, are extremely well mechanised — not because they like to have new equipment for its own sake, but because they want to save money and gain time to improve the course.

I don't want to get involved in the subject of Turf Maintenance, but all the experts agree that regular aeration is one of the key requirements of fine turf, and yet most Greenkeepers don't have the time to aerate their Greens nearly as much as they would like. Clubs using a Cushman don't have this problem, and have found that regular aeration has been a prime factor in removing excess water from the greens in Winter months, reducing the need for temporary greens.

Mechanisation will enable your club's key staff to spend their time more profitably, but how do you afford new equipment?

If you've planned ahead, you may have cash in the bank, but many clubs are now choosing to lease the major items of equipment. The illustration of Leasing Costs (Example 4) will show you the average weekly costs for typical Golf Course Machinery, but the main advantages of leasing are:

No High Capital Outlay
Rental met out of Course Income
Bank Facilities largely unaffected
Rental Fully Tax Allowable
Accurate Cash Flow Planning
95% to 100% of sale proceeds retained by the club, when you change machine.

I hope I've prompted you to look carefully at your Club's Income and Expenditure Account, and have given you some ideas that may save you time and money. We would be very pleased to discuss further any points you may wish to raise, or to demonstrate any machines that may be suitable for your course, but I must ask for your consideration in one respect:

EXAMPLE 3:
Cushman Turf Care System — time saved on golf course maintenance

<table>
<thead>
<tr>
<th>Job (18 greens)</th>
<th>Previous method</th>
<th>With Cushman</th>
<th>Saving</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aerating</td>
<td>16 hours</td>
<td>6 hours</td>
<td>11 hours</td>
</tr>
<tr>
<td>Hollow timing and collecting cores</td>
<td>120 hours</td>
<td>10 hours</td>
<td>110 hours</td>
</tr>
<tr>
<td>Top-dressing</td>
<td>48 hours</td>
<td>4 hours</td>
<td>44 hours</td>
</tr>
<tr>
<td>Spraying</td>
<td>80 hours</td>
<td>3 hours</td>
<td>77 hours</td>
</tr>
<tr>
<td>Switching greens</td>
<td>36 hours</td>
<td>11 hours</td>
<td>21 hours</td>
</tr>
</tbody>
</table>

Note — All these figures were obtained from golf courses now using the Cushman Turf Care System. While the times for each job vary considerably, the figures illustrate the savings in time that can be achieved. Every man hour must cost a club between £2 and £2.50.

EXAMPLE 4:
Golf course machinery — leasing over 5 years

<table>
<thead>
<tr>
<th>Machine</th>
<th>Price</th>
<th>Quarterly rental</th>
<th>Average weekly cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>*Ransomes Motor Rake</td>
<td>£1,795</td>
<td>£134</td>
<td>£10</td>
</tr>
<tr>
<td>*Ransomes Hydraulic 5 Gangmower</td>
<td>£3,300</td>
<td>£246</td>
<td>£19</td>
</tr>
<tr>
<td>*Cushman Turf Care System, inc</td>
<td>£6,770</td>
<td>£504</td>
<td>£39</td>
</tr>
<tr>
<td>Top-Dresser</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Huxley Turf Sprayer</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Greensaver Hollow Time Aerator</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Huxley Heavy Duty Deep Spiker</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>*Ransomes Tournament Triplex</td>
<td>£4,927</td>
<td>£367</td>
<td>£28</td>
</tr>
</tbody>
</table>

Note — These figures are based on rates from Humberside Leasing Company, current at 1 April 1979, and are exclusive of VAT.

It's Playable because it is the best Smooth Stalked - Meadow Grass!

It is the only smooth stalked meadow grass that will do the job best for all sport activities.

BenSun [A-34] is available from:
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Witham, Essex CM8 2DX - Phone: Witham 516600 (STD Code 0376)
BenSun [A-34] is a product of Warren's Turf Nursery, Inc. research, Palos Hills, Illinois 60465. U.S.A.

August 1979
Notice is hereby given that the Sixty-second Annual General Meeting of the British Golf Greenkeepers' Association will be held at the Royal Birkdale Golf Club on Monday 20 August 1979 at 3 pm. Notice of resolutions must be sent in writing to the Hon Secretary twenty-one days before the date of the Meeting. Under Rule 17c written proxies may be voted at all Special and General Meetings of the Association. Proxy forms may be obtained from Section Secretaries, and returned to the Hon Secretary of the Association 21 days before the meeting.

Annual Tournament
The Sixty-second Annual Tournament will be held at the Royal Birkdale Golf Club on Monday, Tuesday and Wednesday 20, 21 and 22 August 1979. Entry forms appeared in the March Journal.
Monday 20 August: Morning, 18 holes. Afternoon, Annual General Meeting, 3 pm.
Tuesday 21 August: 36-hole Medal, Toro Cup (Scratch), Senior Division (plus to 11), Junior Division (12 to 18); the Jubilee Cup (team prize off handicap); the Coming of Age Cup; Chipman Under 25 Years of Age Cup.
Wednesday 22 August: Morning, 18-hole Medal. Afternoon, prize distribution, 3 pm. SAI Mini-Crum Trophy, aggregate score over 54 holes.
Section Secretaries will be asked to verify the handicaps of all competitors from their records before the Tournament. All handicaps must be based on the National Golf Union's Handicapping System.

Executive Committee
A Meeting of the Executive Committee will be held at the Royal Birkdale Golf Club on Sunday 19 August 1979 at approximately 5.30 pm. May I remind all holders of trophies from last year's Tournament who are not taking part this year to ensure that these are returned to the Royal Birkdale Golf Club by Saturday 18 August 1979.

Signed,
Walter Heeles, Hon Secretary

TORO TOPICS

LOW HEAD DRAINAGE AND ITS CURE

When your sprinklers are turned on do you, until the lines are full, have water deposited excessively around the sprinkler? Vice-versa when turned off, does the lowest sprinkler drain the line causing puddling around the sprinkler encouraging the onset of disease?

This problem can easily be overcome with the latest Toro large geared sprinklers, all of which are fitted with a check valve in the body ensuring the line is kept full of water, preventing low head drainage and ensuring the sprinkler operates at 100% efficiency immediately the valve is opened.

Additionally, if the valve does require servicing it can be removed without disturbing the surrounding turf and soil.

Ask for more details from your Toro irrigation dealer or contact us. Better still, meet us at Stand G54, Motspur Park ...

Toro Irrigation Limited
Unit 7, Millstream Trading Estate,
Ringwood, Hants. Tel 04254 6261

SPECIALISED SAND FOR BUNKERS AND GREEN-DRESSING

For the past 25 years MARTINS have supplied SPECIALISED SANDS, all over ENGLAND and WALES, to Golf Courses, Horticulturists and Local Authorities.

With this experience we are confident that we can offer you the right grade of sand for all your needs.

Our Sales Office will be pleased to supply samples and quotations on request.

Martin Bros. (Building Sand Sales) Ltd.,
1A Clifton Street,
Alderley Edge,
Cheshire SK9 7NN.

Tel: Alderley Edge 58 4571/2.
Seat before the television screen, wrap in the interest of an important tournament played over one of the great links, my mind, as is its wont suddenly wandered off on a not unconnected tangent. What kind of course would my fellow watchers, numbering thousands select, given circumstances under which proximity to their homes are not the governing factor?

When you come to think of it, the watchers, present or by television are seeing the better courses.

A veritable salvo of questions descends. From his chair, or on foot, do those towering sand dunes strike him with terror? Do the narrow fairways lined by intimidating rough make him thoughtful? Would the carries be beyond his compass?

The undulating fairways — rather flattened by television — offering down or up hill lies, and therefore conditions with which he may not be familiar. There is the wind, ever changing direction on a links, which can cause havoc with the swing. The tight lies on the fairways. The depth of the bunkers, and the pin placings. These last are usually cut in positions that call for all the skill of the tournament players. A procedure on an ordinary course that would cause violent reactions. It is here we meet the great divide.

That divide between the famous golfing grounds and the ordinary — sometimes mediocre — can only be put to the average golfer by his equivalent who has met it. Experience is all. It is a humbling venture if, having been present at one of the major events, you can manage to play over the course the following day. This must be done from the tournament teeing grounds, and the player must retain in his memory as nearly as possible where the professionals' drives finished. That is where the difference in the pattern of play is revealed.

To expect the double-figure handicap golfer to do this would be absurd. Let us take the 6 or under man and put him on the rack of those remote starting points. There is no crowd, no pressure, but he will find himself faced with quite a different game. A few may have the power, but on those championship links or the inland courses over which professional meetings take place, the drive has to finish in a precise area.

Failure to achieve this closes the entrance to the green. The second will have to be manufactured; faded into the green or played with draw. The likelihood that he cannot get up in two, will leave him with a delicate approach. It is unlikely that he is a good "scrambler".

The best of them, in the world class have to despite the number of the public who imagine that their hero does not stray. That is the art, or skill, or tying down the score on those days when the fine edge of their game is not there. That divide between the famous and the ordinary, and the "Likes of them"?

What would the consequences be, if some enterprising club held a competition for those of 12 handicap and over, allowing them to play their shots from a spot — marked — 240 yards out. Even then we have left out the "circuits' player's power in that second stroke.

This lack of realization of the great divide was brought home to me when someone asked me to play a round at a nearby club. It is not always simple to put a proper label on a course. A small club, it could not be called a park course, for those are usually spacious. Perhaps a countryside course would fit the bill. It was well kept, sparsely bunkered and short.

The game over, my host astounded me by saying: "Now that you have seen the course, why is it that no professional tournaments or championships are played here?" I could only suggest that it was on the short side. The brutal truth was that no county championship would have been held there.

Join the professionals

use Supaturf autumn and winter fertilisers

Autumn maintenance and fertiliser treatment is important and sometimes not fully appreciated. It plays an important role in the success of the turf the following spring.

For Fine Turf use Supaturf AW/B
Analysis: Nitrogen Phos Acid Potash Fe
Water Sol Insol
2.5% 5.0% 3.0% 7.0% 1.7%

For Fairways and Outfields use Supaturf AW/P
Analysis: Nitrogen Phos Acid Potash
Water Sol Insol
3.0% 6.5% 3.5% 10%

Patrick Smartt

The carry was attempted, not through any conceit. I wished to be able to say I had been in that notorious hazard.

After an endeavour to paint the wide gap between the great and the ordinary, it is time to return to the question what kind of course would the professional choose for his home game? To be trite, it must depend upon the person's attitude to golf. Firstly and obviously he would go for the uncrowded. Here, certain clubs out in the country, with fine courses, limited membership and charge of visitors are discarded. That is solely their affair. Any club has the right to conduct its own affairs.

It is the suburban clubs, on the outskirts of the industrial cities which are swamped by numbers. It may be that the design will be rather ordinary and uninspiring, in other words orthodox. Everything, including bunkers where you would expect them. It is ground over which the weekend golfer can knock round, which after all is what he wants, unless he rises to a challenge. Does he find it dull after seeing the championship links? Or is his opinion, those big courses can be left to the professionals and the "Likes of them"?

Patrick Smartt

August 1979
T. Parker & Sons (Turf Management) Ltd will again have a stand on which will be shown machinery from all leading manufacturers with emphasis on those machines which will be of particular interest to golf courses.

Parkers include in the display Sisis equipment for which company they are the London and Southern Counties sole distributor. Distributorships for Ransomes, Atco, Hayter, Nickerson Turfmaster, Lodge Equipment, T. White Engineers (Auto Roller), Mommersteeg International, May & Baker, Synchemicals, Ciba Geigy all contribute towards the Parker package deal offered to their customers as the current slogan sums up "from Sowing to Mowing".

At the show will be the Parker Spreader. This machine is available in two versions, the "Standard" and a larger type which is the "Master" model. Both machines handle grass seed, fertiliser and rock salt, and also have a cut-off inbuilt enabling the user to spread to one side only.

The company is well known for its Verdant range of grass seeds and fertilizers. Greenfeed Fine Turf Fertilizers in both spring/summer and autumn/winter form packed in easy to handle 25-kilo bags are now used by greenkeepers throughout the UK. The company markets a range of machinery of its own including the Aggrigator tractor-mounted soil screen, the Parker T2 (Standard and De Luxe) sprinkler, the Parkamatic self-travelling sprinkler, Park central coupling hose reels. Park water barrows, the Park professional sprayer for high volume and low volume application. Macwin line markers and dimple markers. The Perfecto range of golf course equipment includes flag pins, flags, hole tins, tee markers, ball scrubbers, etc. Parkers are offering the range of cultivar grass seed mixtures bred by Mommersteeg International which are known internationally and have proved very popular with greenkeepers.

A comprehensive catalogue is available on request from the Parker stand. No. 3 on Avenue "F".

May & Baker Ltd is one of the few UK-based companies engaged in basic agrochemical research. Years of research work supported by extensive development programmes have earned the company a reputation for high quality turf care products. These include—

"Aclrilawn" for newly sown lawns, "Clovotox", a really effective clover killer, "Dicotox", formulated mainly for outfield use, "Willisox" for speedwell control in fine turf and "Supertox" 30 which is widely used to control broad-leaved weeds in fine turf. "Mersil", "Maysan" and "Merfusam" are mercurial based fungicides and "Mildothane" Turf is a highly effective non-mercurial fungicide.

May & Baker is committed to expand its research and development work and so maintain its position as foremost manufacturer of specialised lawn care chemicals. Part of the display is thus devoted to progress being made in the development of new products for the control of turf fungal diseases. Visitors are invited to call on our stand to discuss turf care problems with technical experts and to take advantage of the special "Mildothane" Turf promotional offer.

MAY & BAKER AT MOTSPUR PARK

May & Baker Ltd is one of the few UK-based companies engaged in basic agrochemical research. Years of research work supported by extensive development programmes have earned the company a reputation for high quality turf care products. These include—

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MOTSPUR PARK

PARKERS

Parker Spreader "Master" Model Type B-53.
Price: £85.00 + VAT

SISIS

SISIS MAXIREEL in operation

SISIS Equipment (Macclesfield) Ltd will, as usual, be showing their range of Sportsground Management Equipment including grass cutting machinery which already fills their maximum size stand.

In addition to their long established range of aerators, scarifiers, brushes, rollers, fertilizer and seed spreaders, line markers, re-seeding machines, PTO driven gang mowers, etc. they will be showing, for the first time, production models of two machines introduced in prototype form in 1978.

Firstly, the Truplay, now available in 8 ft wide and 6 ft wide versions, for the one pass restoration of hard porous playing surfaces. This combination of rake, lute, roller and brush for simultaneous use, within a frame which incorporates a platform to carry a line marker plus material, offers advantages and savings in time and labour to local authorities with several playing pitches of this type within a small radius. Thus one man with a tractor can cope with all necessary maintenance operations. SISIS are finding good export potential and demand for this machine, particularly as the narrower unit can be used with such smaller tractors as are allocated for this type of work overseas.

For a totally different market is the SISIS Maxireel, 30 in power propelled, pedestrian controlled cylinder mower. The Maxireel incorporates a large, 10 in diameter cylinder, two forward and a reverse gear for extra manoeuvrability, large diameter ground wheels to facilitate easy curb mounting and built-in, drive-cut-out safety device. A retractable transport wheel and brakes are fitted as standard and an optional seat unit is available. This machine has received wide acceptance and will undoubtedly be one of the focal points on the SISIS stand, where the company will be giving the large compliment of staff available to give customer attention.
THE PATTISSON-CRAIG TOURNAMENT

The Walsall Golf Club was the venue for the sixth annual match between the Midland and Southern Section to play for the Bob Craig Trophy.

After a much needed cup of coffee, David Craig welcomed the two teams and sent them out to enjoy themselves. On their return it was evident that the morning round had been fun and it was a joy to see 24 smiling faces around the buffet table helping themselves to an excellent selection of dishes.

The Southern Section had the biggest smiles for in the singles matches they were ahead, not a lot, but ahead. With the sun still shining everyone enjoyed the Foursomes particularly the Midland Section for they collected enough points to bring the result to all square.

After another enjoyable meal the Captain of the Club joined us and kindly said a few words and expressed the hope that we would return to Walsall soon.

David Craig thanked the teams for attending, with special thanks to Allan Kite for his help and to Gill Woodward and the Walsall Golf Club, at the same time advising those present that next year we would be at the Beaconsfield Golf Club. This was a good opportunity to ask Bob Plain to say a few words on behalf of the Southern Section, which he did in his usual cheery way. Bob thanked Messrs Pattissons for acting as hosts and to the Club for making us welcome and helping to make it a happy day.

Allan Kite stated that everything had been said but he too confirmed that everyone present would remember our visit to Walsall and on behalf of his Section gave special thanks to Gilbert Woodward and his staff.

All that remained was for the Captain of the Club to present the Cup to the Southern Section, Bob accepted it and passed it to Allan at the same time telling him to keep it clean as it was only loaned.

It was a glorious summer evening when the London-bound convoy left the car park leaving behind happy memories of a perfect day in the Midlands.

RANSOMES PREPARE THE BRITISH OPEN

The 108th Open Golf Championship will be played out on the famous Royal Lytham and St Annes course. Ransomes will play their part in this year's Open. Mr Jim Macdonald, Head Greenkeeper, and the Ipswich-built Tournament Triplex Greens Management System, which was supplied by local dealers, W. Wilcock & Sons (Preston) Ltd, will ensure that the greens are at their best throughout the Championship, right to the winning putt.
I hear that wedding bells were ringing recently for David Paine of North Foreland Golf Club, the lucky girl was Debbie Boulanger but does she know what she is letting herself in for marrying a greenkeeper? Can’t be much fun for a wife who is fast asleep to be woken at 5 am on a Sunday morning when her husband climbs out of bed to cut the greens! Best of luck to you both.

was decided that as the section only had one full 18 holes of competition each year it was impossible for members without a handicap to be judged on this, therefore it was proposed and seconded that all members without a handicap and who wished to play in competitions must submit four cards from their own course to the handicap secretary (John Kirkpatrick) who will then assess a handicap. The meeting agreed that a pull-out slip be inserted in the March or April Journal, this slip to have all the necessary details for sending subs and handicaps and so making it easier for Section Secretaries. This matter to be raised at the National AGM.

Parker's Invitation Golf Day
Forty-five greenkeepers from "Parker’s" area were invited to a very enjoyable day at Malden GC on 13 June. The day was superbly organised by Mr Peter Simpson and his staff but a special word of praise for the green staff at Malden for getting the course playable after the torrential rain of the previous night and morning.

Ransomes trip
The Section have been invited to spend two days at Ransomes Works, Ipswich. The visit to take place on Monday 5th to Tuesday, 6 November 1979. The cost of the trip will be £10 per head, to cover cost of travelling and hotel, Ransomes have kindly offered to provide all refreshments. There are a limited number of vacancies so please send your name and £10 as soon as possible to the secretary so that arrangements can be finalised.

Autumn Tournament
This is our guest day and takes place over 36 holes at Surbiton GC on 26 September. All entries to be sent to — G. Brown, 19 Foxearth Road, Selsdon, South Croydon, Surrey — by 5 September with name and handicap of self and guest and £60 deposit, also SAE for draw sheet.

PLEASE NOTE. CHANGE OF DATE. The first lecture will not take place on 10 October as this date coincides with the International Tournament. The new date for this lecture is 17 October and will be given by a rep of Ben Turner Tractors.

While every effort should be made to improve the status of our profession there are still a few members who by their manner and dress do nothing to enhance our image. Please remember when visiting other clubs, who are kind enough to extend the courtesy of their course and clubhouse, that we are representing our clubs and profession and so should dress and conduct ourselves in suitable fashion.
bers. We have made arrangements to hold the meeting at Pyle and Kenfig GC as soon as possible.

One good thing on view was the Balance Sheet and high praise must go to Paul our treasurer for that. We should thank members of the trades, they attended and helped to swell our numbers. Amongst these I must name our President, Mr R. Bird, and members of his staff. Representatives of Chipmans, Marshall Concessionaires, Cannock and the agent for Toro who kindly called and left a few Drinks for the Boys.

Again we must thank Mr Alan Weekes for doing his stuff with the competition cards, a lot of work was also done on this by Henry Fry. Henry must be thanked for this, he was in very bad pain and discomfort, despite this he carried on until the end; even paid for meals he didn't have. There are a lot of things done in this Section, by chaps such as Henry Fry and Paul Robinson, that should be appreciated by the members.

Now we come to the Big Event, the Golf Competition. We were playing for a gold watch, kindly given by Ransomes, Sims & Jefferies, a prize that everyone wants to win. I have envied every winner of this very good prize and had a feeling that advancing years would prevent this prize from coming my way. Luck was with me and I was very fortunate indeed to win this valuable prize. The only blot on the landscape was the failure of a previous winner to return the cup that goes with the watch. He was J. Davies of Brecon Golf Club and I hope anyone reading this article will give him a nudge to return the cup.

The golf club received us with their customary courtesy and we had a most enjoyable evening in very good company. The meals and service from the catering department were excellent.

The annual match against Handsworth Golf Club President's team was held on the evening of Thursday, 21 June with two teams of 22 doing battle over the Handsworth course and the usual result occurred, once again the Handsworth President's team showed that they were getting more practice than the Greenkeepers team. We felt honoured to have competed against a team that contained no less than seven former captains and a former president of the club. The golf club received us with their customary courtesy and we had a most enjoyable evening in very good company. The meals and service from the catering department were excellent.

Midland Greenkeepers and Vice-Presidents Team

N. H. Russell (President) 0
V. W. Smith (Chairman) 0
C. C. Moore (Vice-President) 0
E. V. Thomas 0
E. C. Ballinger (Vice-President) 0
R. Pullen 1
D. Parker (Vice-President) 1
A. Cutler 1
R. Pilsbury (Vice-President) 1
M. Hughes 0
J. Guest 0
N. Pullen 0
T. Morris 0
D. Haynes 0
A. Boraston 1
D. Ganning 1
R. Chandler 0
H. Lewis 0
A. Phipps-Jones 0
J. Hughes 0
E. Leeson 0
J. Twigger 0

We would like to thank the following Midland Golf Clubs for their generous donations in answer to our appeal earlier in the year:—

Copt Heath
Churchill and
Blakedown
Broadway
Little Aston
Kings Norton
Coventry Finham Park
Edgbaston
Walmley
Brockton Hall
Dartmouth
Fullford

Halesowen
Bloxwich
Nuneaton
Dudley
Kidderminster
Blackwell
Walsall
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President: J. H. FRY
Chairman: E. R. JAMES
Hon. Secretary/ Treasurer: D. F. GOLDING
38 The Grove, Flixton Manchester M31 3JH
(Tel: 061-748 8592)

Due to unforeseen circumstances, I am not in a position to write all the current gossip and will have to leave it to the next issue. However, it is essential that I write to remind all members that the Autumn Invitation Meeting will be held on Thursday, 4 October 1979 at Brokenhurst Manor Golf Club, by kind courtesy of the committee. Tee-off 8.30 am. Foursomes and Greensome competitions. Members are invited to bring one guest partner; the entry fee is £6.50 each. Entries, together with current golf handicaps, should be sent to Mr E. Fox, Tournament Organiser, c/o Huxleys Garden Machinery, The Dean, New Alresford, Hampshire, not later than Friday, 21 September. Accompanying cheques and postal orders should be made payable to BGGA South Coast Section. Please. It would be much appreciated by Eddie if those members interested did respond to our plea for entries and monies by the due date.

North West

Chairman: JIM ROBINSON
“Bickley”
Aldbourne
Grange-over-Sands

Hon. Secretary/ Treasurer: D. F. GOLDING
38 The Grove, Flixton Manchester M31 3JH
(Tel: 061-748 8592)

At the time of writing, the grass is growing faster than I have ever known and it seems hard to believe that less than six weeks ago we were talking at Heswall of the long winter and late spring. Well the grass has certainly made up for lost time since. Trusting that now we are over the worst and are looking forward to our National Golf Tournament at Royal Birkdale Golf Club held at Reg Vickers’ course Warrington, Cheshire, on Monday, 8 October. Entries should be sent to me as soon as possible, either drop me a line or ring me before 10 pm because I have to have my beauty sleep.

While we are on the subject of visiting other golf clubs, several members have expressed concern about members’ dress. Gentlemen, help to keep our efforts to raise the status of the BGGA by presenting yourselves properly to clubs when visiting them. Lectures, exhibitions and tournaments are all chances to show that today’s greenkeepers don’t have their trousers held up with bits of string any longer. We should at least be on a par with the professionals for status but first we have to show the governing bodies that we can both dress and conduct ourselves correctly.

PARKERS BGGA TOURNAMENT

The day dawned with the skies heavy with rain and there was great apprehension at one time by the Directors of Parkers as to whether the Malden Golf Club would allow the second “Parker” Golf Tournament to be staged at all. However, the weather relented, the greens staff worked like beavers to get surface water off the greens and an 18-hole Stableford play was possible. The event was supported by greenkeepers representing some 70 golf clubs, and the photo below shows the wife of Parkers Managing Director, Mrs G. Parker, presenting the “Parker” Shield to the outright winner, G. N. Brown of Croham Hurst, with 40 points to his credit.

LEFT TO RIGHT: E. Green (Woodcote Park) 4th, P. Fitzjohn (Porters Park) 5th, G. Parker, Managing Director, T. Parker & Sons, G. N. Brown (Croham Hurst) outright winner, Mrs G. Parker, G. F. Child (Moor Park) 2nd, R. S. Howlett (Crews Hill) 6th, J. W. Kirkpatrick (Dulwich and Sydenham Hill) 3rd, G. P. Simpson

Annual trip
Ransomes of Ipswich have very kindly offered to accommodate us on Wednesday, 17 October and we would return the following day. Burrows of Leyland have very kindly offered to help with the cost of the coach. I have to finalise the cost but it will be in the region of £10-£15 most of this sum being for accommodation but numbers are very limited, so anyone interested please ring as soon as possible for further details. I believe the last visit was an enjoyable occasion so it should be well worth saving up for.

Register of qualified greenkeepers
David Berry is the latest greenkeeper to pass his exams and register as qualified, our congratulations go to him. The club at Chorlton-cum-Hardy are proud of David and he is also a very capable golfer playing off 5. He was recently voted on to our committee and he would like to thank his nominees.

New members
It is with great pleasure I welcome the following new members and I hope they enjoy and participate in the section’s activities: H. Chapman, Swinton Park Golf Club G. Bowen, Hillside Golf Club B. Woodcock, Walmsley Golf Club H. Proffitt, Helsby Golf Club R. J. Fairhurst, Duxbury Park Golf Club

Golf Greenkeeping and Course Maintenance
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T. Parker & Sons (Turf Management) Ltd, Worcester Park, Surrey. Tel: 01-357 7791. Contact: R. F. Cook.

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FUNGICIDES

Chipman Ltd, Horsham 60341, Mr J. L. Collins. Derby 364271, Mr B. Roden. Harrogate 686658, Mr S. E. O'Donnell.

GOLF COURSE ACCESSORIES


GOLF COURSE CONSTRUCTION

Comtec (UK) Ltd, Layswood House, Groombridge, Tunbridge Wells, Kent. Tel: Groombridge (0892) 276 581 or 722. Golf Construction Ltd, Golf House, Wood Street, Stratford-upon-Avon, Warwickshire CV37 7UJ. Tel: Stratford-upon-Avon (0789) 69783 or 69292. Golf Landscapes Ltd, Ashwells Bentley, Brentwood, Essex. Tel: Coxie Green 73720. Land Unit Construction, Camden House, Kenilworth, Warcs. Tel: 0926 59241; also at Milton Keynes 510414. Contact: Bob Blyth. Stewart Landscapes Ltd, Carmunnock Nurseries, Pedmyre Lane, Carmunnock, Glasgow G76 9EL. Tel: 014-644 3523 (3 lines).

GRASS CUTTING EQUIPMENT

Sisis Equipment (Macclesfield) Ltd, Shoresclough Works, Hulley Road, Macclesfield, Cheshire SK10 2LZ. Tel: Macclesfield 26365. Contact: Mr R. G. Lackford. Sisis Centre in Scotland: 52/58 Causewayside, Edinburgh EH9 2PY. Tel: 031-667 0689.

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British Seed Houses Ltd, Bewsey Industrial Estate, Pi t Street, Warrington W5 5LE. Tel: Warrington (0925) 54411. Order and Enquiries Contact: Mr R. Saunders. British Seed Houses Ltd, 37 Five Mile Drive, Oxford, Oxon. Tel: Oxford (0865) 50702. Advisory Service and Enquiries Contact: Mr J. H. Franks. Cotton (C.K.) Pennick Lawrie & Partners Limited, Marlow Place, Station Road, Marlow, Buckinghamshire SL7 1NB. Tel: 72655.

Humber Manures Ltd, PO Box 27, Stoneferry, Hull HU8 8DQ. Tel: 0482 20458. Contact: Gerald Moxon. Maxwell M. Hart (London) Ltd, Winnersh, Wokingham RG11 5HF. Tel: Wokingham (0734) 786656. S.A. I. Horticulture Ltd, Hortus House, 3 John's Place, Edinburgh EH6 7EN. Tel: 031-554 5451. Contact: Sales or Technical Department.

Humber Manures Ltd, PO Box 27, Stoneferry, Hull HU8 8DQ. Tel: 0482 20458. Contact: Gerald Moxon. Maxwell M. Hart (London) Ltd, Winnersh, Wokingham RG11 5HF. Tel: Wokingham (0734) 786656. S.A. I. Horticulture Ltd, Hortus House, 3 John's Place, Edinburgh EH6 7EN. Tel: 031-554 5451. Contact: Sales or Technical Department.
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Goldsmith Brothers Ltd, Bury St Edmunds. Tel: 3401. Sue UK agents for Barenbrug Grasses. W. W. Johnson & Son Ltd, Stells Lane, Boston, Lin's. Tel: 0205 68951. Contact: G. S. Taylor. J. Picard & Co (Seed Merchants) Ltd, 34/35 Corn Exchange Chambers, Seething Lane, London EC3N 4BL. Tel: 01-480 5411. Also at Uckfield, Ellesmere Port, Avonmouth and Hull.

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MANUFACTURES

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Ransomes Sims & Jeffreys Ltd, Nacton Works, Ipswic, Suffolk. Tel: Ipswic 72222. Bartram Mowers Ltd, Norwich Airport, Filer's Lane, Norwich NR6 6ED. Tel: Norwich 44911. Contact: Mr Alan Brooks (Home No: Great Yarmouth 64364).

E. T. Breakwell Ltd, 814 Stratford Road, Shirley, Solihull B90 4BJ. Tel: 021-744 4477. Burrows (Grass Machinery) Ltd, Vagan Road, Leyland, Nr Preston, Lancs PR5 2VE. Tel: Leyland (07744) 21778. Burrows (Grass Machinery) Ltd, Stafford Street, Newport, Salop. Tel: Newport 810990. John Chaplin (Machinery) Ltd, Roseville Road, Leeds LS8 5DF. Tel: 458535. Also at 8/10 Lawrence Street, York. Tel: 52176/32567.

Henton & Challoni Ltd, London Road, Notting- ham NG2 3HW. Tel: 0602 862161. McKenzie, 6 Camden Quay, Cork, Eire. Tel: 021-5902301. Contact: Manager of the Grass Machinery Department, M. J. O'Shaughnessy.


Paice & Sons Ltd, London Road, Welbridge, East Grinstead, Sussex. Tel: East Grinstead (0342) 24466. Also at Farleigh Hill, Tovil, Maidstone, Kent. Tel: Maidstone (0622) 65279. T. Parker & Sons (Turf Management) Ltd, Worce Cross Park, Surrey KT4 7NF. Tel: 031-337 7791.

Rogers Engineers Ltd, Grafton, Bedford MK44 3LP Tel: Bedford 870201. Telex: 828927. Contact: M. D. Reeder. Ext 46. Also at Telford Way, Kettering. Tel: Kettering 82611. D. Rowe & Co Ltd, The Hornet, Chichester, West Sussex PO19 4JW. Tel: Chichester (0243) 788100.

W. Wilcock & Sons (Preston) Ltd, Walker Street, Preston PR1 2PR. Tel: Preston 830688.

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**SAND**
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Martin Bros Ltd, 1A Clifton Street, Alderley Edge, Cheshire SK9 7NN. Tel: Alderley Edge 584571/2. Contact: Nick Gray, Sales Director. Bunker; White Silica and Horticultural Sands.

**SEMI-MATURE TREES**
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**SEMI-MATURE TREE PLANTING**
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Eastcote Nurseries (Solihull) Ltd, Wood Lane, off Barston Lane, Barston, Solihull, Warwickshire B92 0JL. Tel: Hampton-in-Arden 2033/2034.

**SOIL CONDITIONERS**
Alginure Products Ltd, Leyswood House, Groombridge, Tunbridge Wells, Kent. Tel: Groombridge (089 276) 581 or 722. Contact: Bill Visser.

**SOIL SIFTERS**

**SOIL STERILIZERS AND SOIL SHREDDERS**

**SPRAYING EQUIPMENT**
Evers & Wall Ltd, Lambourn Woodlands, Newbury, Berkshire RG16 7RK. Tel: Lambourn 71444. Telex: 848658G.
Pressure Jet Markers Ltd, 152 The Arches, Mayfield Industrial Estate, Dalkine EH22 4BZ. Telephone: 031-663 6617.

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