MITSUBISHI E P Barrus Ltd., Launton Road, Bicester, Oxfordshire. OX6 OUR Tel: 0869 253355.

All models four-wheel-drive.

Model	Engine Power HP	Cylinders	Number of Gears	Wheelbase (m)	Price £
MT 372D-T	15	2	6F 2R	0.96	3,850
MT 180D-T	18.5 Diesel	3	6F 2R	0.97	6,170
MT 180 HMD-T	18.5 Diesel	3	Hydrostatic	0.97	7,370
MT 250D-T	25 Diesel	3	9F 3R	1.275	7,295
MT 300D-T	30 Diesel	3	9F 3R	1.41	9,195

UNIVERSAL Bonhill Engineering Co. Ltd., 16 Ferry Road, South Cave, Brough, North Humberside. HU15 2JF Tel: 04302 3388.

All models have four-wheel drive.

Model Engine Power HP		Cylinders	Number of Gears	Wheelbase (m)	•	Price £		
532DT	59 (SAE)	3	8F 2R	1.85			8,720	
603DT	59 (SAE)	3	8F 8R	1.97			9,350	
642DT	70 (SAE)	4	8F 2R	1.99	fà .	(4)	9,820	
704DT	70 (SAE)	4	8F 8R	2.11			10,550	

YANMAR John Croft (Machinery) Ltd., Thorpe Willoughby, Selby, North Yorkshire. YO8 0SE Tel: 0757 210222.

	01110111101 1					
Model	Engine Power HP	Cylinders	Number of Gears	Wheelbase (m)		Price £
186A (2 W-D)	18	3	9F 3R	1.35		5,510
169DA (4 W-D)	16	3	6F 2R	1.25		5,400
186DA (4 W-D)	18	3	9F 3R	1.35		6,675
226DA (4 W-D)	22	3	9F 3R	1.55	8	7,075
276DA (4 W-D)	27	3	12F 4R	1.6		7,415
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TECHNICAL

REBUILDING AND CONSTRUCTING NEW TEES

Adrian Stiff, Head Greenkeeper at Tracy Park Golf Club, near Bristol, details the work that has taken place at his course over the past five years to improve the quality of the teeing areas.

Tracy Park Golf and Country Club, a 27 hole golf complex at Wick, between Bath and Bristol, was opened in 1976, less than a year after the initial layout was completed.

Like many new golf courses working to tight budgets, pressure on initial finance led to cost cutting which unfortunately reflected in a lower than desirable standard of construction.

A further nine holes are soon to be added, which could contribute to the club's ultimate ambition to stage one of the first major tournaments in the West of England.

Back in the '70s few tees were constructed, with nothing for the lady members apart from a mown strip on the fairway, though over the past five years the club has undertaken a major tee building programme, totalling eighty to date.

Such is the rapid expansion of the game of golf, coupled with the number of rounds demanded by visitors and members alike, the first batch are already proving inadequate in size and shape for our daily needs.

Tracy Park is not alone in this situation of inadequate teeing areas, an aspect of golf course construction that has been grossly underestimated on many of the courses in the United Kingdom. Tees for a progessive course catering for an increasing number of rounds should be of similar proportion to the size of the greens.

Certainly, in my experience, the par 3's should have a teeing area of 500 square metres and even at this size can still become very worn, unless they are regularly divotted, oversown and intensively maintained.

Long thin tees often satisfy the criteria in terms of area, but restrict the markers to only back-

ward and forward movements, with the added disadvantage of considerable variation of the yardage to the green and in turn, the degree of difficulty of the hole.

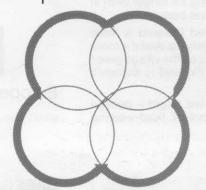
Wider tees offer the flexibility of multiple lateral movement of markers, increasing the overall playing area, particularly the area adjacent to the left marker, which in general, receives the least amount of turf abrasion.

Golfers spend as much time on the tees as they do on the greens

The initial planning stage for tee construction is critical. Consideration must be given to the siting, not only in relation to the hole to be played, but to the previous hole. Obstructions and bunkers in line from the last green to the next tee can create stressful conditions to the surrounding turf, concentrating traffic within narrow areas.

New tee building, should whenever possible allow ease of exit from the previous green, taking into consideration safety and flexibility of movement in the way golfers disperse from the

Fig. 1 Overlapping circles give shaped tees with rounded corners.



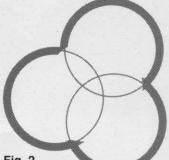


Fig. 2
Competition
and forward positions can be
accommodated using a three
circle design.
Overlapping circles give

Shaped tees with rounded corners.

last putting surface.

Where sufficent land is available it is well worth considering an extra tee as an alternative, which could be used during the winter period, perhaps with the inclusion of a synthetic surface.

The shape of the tee is another factor to take into consideration. It is not necessary, nor even desirable, to keep to the square or rectangular tee design.

Although design is a matter of preference and opinion, kidney shaped, oval, overlapping circles or more intricate patterns can add appeal and interest to the golf course.

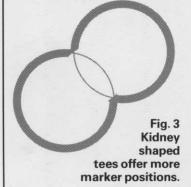
Future maintenance must always be a primary factor and if it is decided to cut the tees with a greens triplex, rounding off the corners will make the mowing that much easier.

More important is the alignment. If you prefer your tees to conform to the traditional shape, they must be straight. The easiest method is to take the central axis of your fairway as the central axis of the tee and mark out the width equally on either side.

Drainage and movement of air within the tee area are essential factors which must be considered, particularly if the site is prone to holding water or restricted by shadow from woodland, shutting out essential sunlight.

At Tracy Park we have found internal tee drainage is not necessary as long as all four sides of the tee are elevated.

Construction of new tees will no doubt vary in different locations of the course, but if the underlying soil is of good quality, strip the top layer and stock-pile



it to be used later.

We apply Glyphosate to the teeing area and the surrounding banks prior to the initial construction and after two or three weeks rotovate to a suitable depth of six inches. The soil now becames friable and easily pushed around or collected using a blade or bucket.

Pegging and staking is the next stage, followed by the placing of the infill material into the base to the required depth. We use a three man team for this part of the operation, two hauling and one to judge and spread the positioning of each load.

Five years ago we were able to buy at auction our own digger for



a mere £195 and fingers crossed, it has cost us very little to keep it running.

The height of the new tees will depend very much on the topographic conditions, but even on a flat site, raising the level by just twelve inches is sufficient to add definition as well as creating the impression that the golfer is playing from the tee, not just a piece of mown fairway.

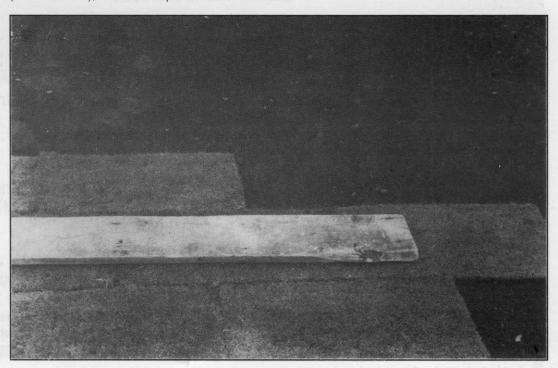
Higher elevations can of course add to appearance, opening up the view to the green and bringing bunkers, ponds, streams and other features into a much more desirable perspective.

Consolidation of the base layer is very important in the initial stage of construction. Access to the right type of mechanical equipment can reduce the waiting period otherwise it is a matter of time to allow natural settlement.

Certainly on the larger tee constructions, the root zone top soil mixture should not be applied until the subgrade material has fully settled and this can take a full season.

When we apply our top mix we ameliorate one part sand with two parts of top soil; this not only improves the quality and depth (now 9 inches), but also helps

When laying turf on a new tee, work forwards to avoid disturbing the prepared bed. Use a plank laid on the turf for each new piece

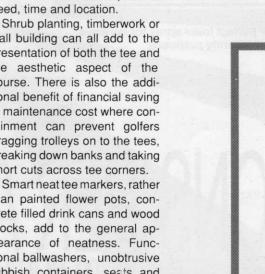


the final grading, which we achieve by raking and heeling several times until a satisfactory level surface is ready to receive seed or turf. Again the decision to use seed or turf will depend on need, time and location.

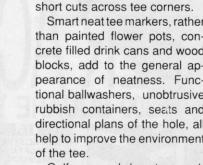
wall building can all add to the presentation of both the tee and the aesthetic aspect of the course. There is also the additional benefit of financial saving in maintenance cost where containment can prevent golfers dragging trolleys on to the tees, breaking down banks and taking short cuts across tee corners.

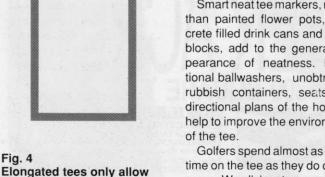
of the tee.

time on the tee as they do on the green. We all devote many hours caring for our greens, but do we spend sufficient time looking after our tees?



than painted flower pots, concrete filled drink cans and wood blocks, add to the general appearance of neatness. Functional ballwashers, unobtrusive rubbish containers, seats and directional plans of the hole, all help to improve the environment



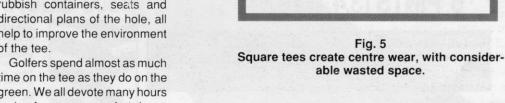


forward and backward move-

ments of markers, often

distances.

affecting standard scratch





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This year the British Wildlife Appeal and the Royal Society for Nature Conservancy are combining to sponsor the British Wild Life Classic in which every club will be invited to hold competitions leading to the Regional Finals.

Fred Hawtree took nature conservancy as the theme in his lecture to Northern Greenkeepers at Askham Bryan College last year. As you will read, his thoughts on the subject extend somewhat further than the birds and the bees.

Once upon a time if you wanted to build a golf course you got a piece of land, a scythe, and forty sheep and set about it. There was no Town and Country Planning Act 1947 (as amended), there were no Planning Officers; there were no conservation groups and no societies for the protection of endangered species; there were not even any golf course architects (a rare species which has come from nothing to being at risk of extinction in just over 100 years — the fastest piece of evolution on record). I will tell you why it is endangered later on.

For the moment let us stay in those carefree days when planning consent had still not been invented.

Golf courses were simple. Their impact on the ecological structure of their neighbourhood was negligible. It might in fact have been beneficial. It removed from the town a number of gentlemen who might otherwise have been engaged in drinking, gambling and smoking clay pipes - and sent them out into the fresh air for two or three hours on the links before they retired to the nearest establishment suitable for drinking, gambling and smoking clay pipes.

All they had done to the environment in the interval was tread down a certain area of turf helping it to keep free of coarse weeds and improving the grazing while making it more suitable for the matches of golfers following.

They had also taken a certain number of divots but since the clubs they used were mostly of wood, that was unlikely to have done more than superficial dam-

age.

But even in those days, they had trouble with the local pressure groups and residents' associations. The whole history of golf and of the St. Andrew's Links in particular, is sprinkled with incidents where golfers fell foul of other legitimate uses of the land whether it was the bleaching of sheets in the sun, the extraction of shell, the culture of rabbits, the exercise or welfare of other beasts suitable eventually for the table, or the pursuit of other pastimes whether warlike or not. All these tended to occasion disturbance beyond what the golfer can reasonably be expected to tolerate. Similar troubles at Bruntsfield Links (now in the heart of Edinburgh), at Leith, and later at Musselburgh on the outskirts, eventually drove golfers elsewhere to private territory.

St. Andrews worked out a compromise and has adhered to it ever since. But in London the Blackheath golfers had to move to Eltham and the Prince's Club went from Mitcham Common to Sandwich (though it left the course behind for others).

A number of other clubs on London commons like Tooting and Clapham, simply disappeared though Wimbledon split and only half became as it were, privatised.

I have dawdled perhaps too long in those early days but I wanted to show how the earliest courses were not inimical to the natural environment but only came into conflict with aspects of the human environment surrounding them.

I said earlier — that originally there were no golf

course architects. However as we leave the Commons and move forward to new inland clubs, in England, we find that the earliest professional golfers were consulted. They would visit the site, express enthusiasm, walk over it and put in 36 pegs before retiring with a cheque for 5 Guineas and mutual expressions of esteem.

Layout was indeed at the very heart of golf course architecture and has remained so ever since; to such an extent that there are still green committees who think that golf course architecture stops at the point when a consultant says "We will have a tee here and a green there."

Today that is no more than the first stage and from then on arise the problems of conservation which I have travelled 150 miles to discuss with you, expelling into the atmosphere on the way, in common with another million or so road users, brain damaging lead compounds, heaven knows how much carbon monoxide, acidiferous sulphates, carcinogens and other lethal substances.

I mention these matters solely in order to remind you that there is more to conservation than meets the eye, and that most of those who make most noise at the protest meetings, turn up in a machine whose exhaust is at once toxic, anti-social and offensive. But just you try and get them to walk a mile to the inquiry.

Now golfers do walk and I hope they always will. So that is one up to us for a start, at least in the matter of personal conservation.

The problems of conservation of other features of the

natural environment arose when the untold benefits of the game of golf to character, physique and society became so sought after that a few odd games on a seaside links during the summer holidays no longer satisfied the growing army of recruits. They wanted golf courses in the suburbs, in the shires, in the stockbroker belts. And they got them to the tune of some fifty new courses every year. But they paid a price.

Firstly the landscape had to be altered because the game was not designed for meadow, marsh or moor. I have quoted before what Gordon G. Smith (once an editor of Golf Illustrated) said on this subject in his book "The World of Golf" at the end of the 19th Century. If necessary I shall quote it again at the end of the 20th. He expressed his opinion as follows with the confident assurance which was a notable virtue in Victorians:

'It is quite certain', he said, 'that, had the ground, on which ordinary inland golf as played today, been the only available ground for the purpose, the game would never have been invented at all.'

That is the crux of much of our problem. We have to change things to make the game possible. If we change too much we shall risk destroying the precious heritage which natural processes have passed on to us. If we do not change it enough the club members will set about destroying their precious greenkeeper.

The second price exacted by the move inland was even heavier. The requirements of altering landscapes, placing bunkers and producing putting greens which demanded golfing skills like those needed at the seaside, led to the appearance of a specialist consultant, generally an observant amateur golfer, who with the assistance of specialist seed-firms like Suttons or Carters or civil engineering firms like Franks Harris could produce plans and translate them into reality.

These people were called golf course architects and their status was recognised when an Act of Parliament specifically forbade, with two exceptions, the use of the word architect to describe a person not qualified in that profession by training. The exceptions were "landscape architect" and "golf course architect" and both have been recorded in favourable situations ever since, though not always with favourable comment.

It is no accident, therefore, that the term golf course architecture dates from the beginnings of golf's problems with conservation. Up to the Twerities, golfers would accept the stone walls of North Berwick, the roads of St. Andrews, the quarries of Blackheath. But the internal combustion engine began to be applied to other machinery than the motor-car.

The Ruston Bucyrus firm began to produce mechanical shovels which could rotate quickly and reach to a tolerable radius although they moved very slowly. Applied to golf course construction, they ended the gangs of forty or fifty men hitherto needed and could level out and feature a green in a couple of days.

You can still identify the greens which were cut and filled by a machine like this. They did not travel like a bull-dozer, consolidating as it goes, but stood still in two or three suitable locations. The greens which they made in the Twenties have all sunk on the fill side and stayed up on the 'cut'. But on the whole they are still acceptable for putting even if holing space is a problem.

But, more pertinently, these machines could shift

walls and hedges very quickly, and could uproot trees. It is fortunate that the philosophy of golf course architecture was still restrained by tradition and, I suppose, money.

The earliest designers had always sought to use natural feature in their layouts just as they found it. Indeed a large part of their skills lay in identifying what existing features of their site would contribute to golfing interest, how best to use them, and then working them into the pattern of 18 holes.

This tradition carried on between the wars and indeed is still alive and kicking.

The new applications of the combustion engine were therefore restricted to improved green modelling, better looking bunkers, and bigger tees. True there were trees and hedges to remove but there were plenty of trees put back. Moreover, many of these new courses were laid out on farmland so there was a nett gain in habitat for the sort of wild life one could expect to find.

A large number of courses were built on the Bagshot sands to the west of London and pine trees had to be removed and drainage carried out. But here again, pine woods being what they are, the mingling of light and air and some grass would have been a benefit in conservation terms.

Golf courses therefore became havens for wild life in the twenties and thirties as bricks and mortar invaded the suburban and rural scenes — and indeed they still are.

Last month in Cambridge-shire I heard from a golf club secretary how he had been harangued by local government officers on the need to preserve certain rare species which they had found in the rough. He listened patiently but was finally obliged to indicate the bleak tracts of arable land all round him and point out to the experts that if it had not been for the golf course they would not have found anything worth conserving

within ten miles. The same might be said of a large number of golf courses, especially those within sight of the town dweller.

This bonus was largely bestowed by good fortune because the golf course architects of those days were not trained in landscape or any botanical discipline.

Harry Colt, who did work at Ganton, designed Wentworth, the New Course at Sunningdale and a host of others, began his life as a Hastings solicitor until the new course at Rye nearby caused him to change from the law. He became a golf club secretary at Sunningdale and then a golf course architect of great skill.

However I want to concentrate less on Colt than on his pupil, Dr. Alister Mackenzie, with whom he stayed when he was invited up to Alwoodley near Leeds. Mackenzie was doctoring at the time but had already taken a great interest in the design of courses and his models of greens so impressed Colt that he eventually left him in charge of the shaping of the whole layout.

Mackenzie was also the first course designer to lecture the Northern Section of the Golf Greenkeepers' Association which he did at Leeds in 1913. I still have a copy of that lecture as it was printed in the journal of the association, which was a technical year book published annually and certainly the first endeavour in this country to circulate helpful articles and suggestions amongst greenkeepers.

We now apparently need five publications to do the same job.

Mackenzie's greatest memorials are abroad, Cypress Point and Royal Melbourne amongst them. But the nearest examples to this room are Alwoodley, St. Ives at Bingley, Fulford, Moortown, Oakdale, Scarborough, Southcliff and Sitwell Park and Wheatley.

I do not know all of those courses but those with which I am familiar, illustrate just the

point I made earlier. The golf course architect came into conservation because it was the most economical and satisfactory way of producing character in a golf course.

Preserving the actual features gave each layout its own set of fingerprints. He did not have to manufacture them, although on a smaller scale he made a lot of interesting experiments with his hazards.

It is in fact a characteristic of the early architects that they envisaged a general form for the ideal layout but they never let that ideal impose on their adaptation of the contours which they found.

Modification of the site was held to the minimum necessary to secure visibility and a logical pattern of play. But they were even prepared to sacrifice a logical pattern if the site produced something different. Short holes might pop up at unusual moments in order to use some dramatic feature as a transition between two plainer neighbours.

It is still my belief that one can enjoy and grow fonder of a golf course conceived in this way than of those manufactured nearer our time in which feature, length, planting, water, and contour are produced artificially at enormous cost according to some abstract notion of what a golf course should offer in order to attract an adequate, if ignorant, clientele to recoup the investment.

A golf course which needs publicity to make its way is generally the one which has paid scant heed to conservation. At the risk of causing you sleepless nights I will try to describe to you the risks we are running not only in the damage to our golfing heritage but also in the antagonism which will undoubtedly injure our future peace of mind.

Today's problem, as I see it, is this. (And this is why the pure golf course architect may be an endangered species). There are certainly a number of projects which are

initiated by a group of enthusiasts who want the best they can afford and provided they engage a competent designer will get it.

Most of the economies he will make will be due to conservation factors because the less he disturbs, the less he is spending.

Then there are farmers and landowners who see a golf club as alternative income. Here, also, I think we are relatively safe because there will not be a lot of money to splash about and a competent golf course architect will produce a plan which will ensure that the golf course provides all the traditional requirements without requiring an astronomical budget.

The real danger comes from the financial groups, the long-term investors, the big developers, the hotel builders, the diversifiers. Very naturally they wish to make sure that their venture is successful. They only know one way of doing this - engage a big name to sign the plans whether or not he has prepared them himself.

Now the big name player has spent most of his life on the practice ground and has probably not had much time to study the finer points of landscaping. He will know all about greens and tees though not necessarily how best they can be constructed. He therefore takes unto himself an expert or two to see to these details.

But he has noticed as he travelled the world how some of the crankier holes get talked about and he imposes an overall requirement on his underlings that every hole should be memorable, the total length 7,500 yards plus, there must be lakes at every hole, reinforced by ten acres of sand, all green surfaces should roll like the ocean and he should be provided with a five acre plot for a tenbedroomed villa by the first

He then flies off to sunnier climes but will appear twice more to provide an opportubriefed on progress and to1 dazzle them with the vast sums that are being spent.

Now that is all very well in a big country and in the parts of that country where even the Red Indians never penetrated but it is not right for us. The number of so-called prestige developments that we can take are strictly limited commercially and there are other dangers.

Firstly, in order to achieve this transmogrification (it's all right — I looked it up) there is an unfortunate tendency to strip the top soil off upwards of fifty acres, remodel the contours in a way that is foreign to the district, plant trees which are unsuitable, drain marshes, dig lakes, and generally cause hackles to rise among the neighbours unless they are golfers (and probably on them too).

The old idea of using the natural feature God gives you has gone - you produce your own. In the old days, they used to give exaggerated names to holes from some local feature. 'The Himalayas' were some modest sand hills at Sandwich. Nowadays a name like that would be 'for real'.

So the new approach upsets the whole ecology of the site and the insensitive treatment produces an unpleasant 'them and us' atmosphere in the district.

This will not be a very happy situation for you gentlemen as you laboriously try to recreate what has been destroyed. And what staff will be required to deal with the maintenance.

All I can tell you is that the number employed on the Muirfield Village golf course earlier this year was a modest 43. Yes you heard it right -43 and the annual cost amounts to about £500,000.

This is one time you can believe what you read in the papers. Donald Steel was there and he is currently Chairman of the British Association of Golf Course Architects

I therefore ask you to asnity for the golfing press to be I sess the consequences of I

the new golf course architecture chiefly practised by professional golfers. Planning authorities will become suspicious of new golf courses if they have seen or heard how others have turned landscape inside out.

The community spirit on which many golf courses thrive will disappear. Nobody will be able to afford to play on them because the constructional costs and maintenance costs on top can only lead to a prohibitive green fee. And the men in the white coats will be coming to take away the head greenkeeper for a session with his psychiatrist on a regular basis.

Now you are part of a big organisation now speaking with one voice. We have not heard it much yet but you can speak up for the future of golf in the way you work and proclaim the old virtues of your profes-

Dr. Mackenzie produced a list of 13 points for the ideal golf course. No. 7 reads as follows:-

'The course should have beautiful surroundings and all the artificial features should have so natural an appearance that a stranger is unable to distinguish them from nature itself.' Well the good golf course architect should have achieved the right shapes for you to work

Henceforward you will find that if your maintenance only emphasises that natural appearance, conservation will follow as the night, the day.

If you asked me to summarise all that in one paragraph I expect that it would read something like this.

Conservation is here to stay and its proponents will not get any quieter as population, money and other pollutants increase.

Both golf course architects and greenkeepers had better listen to these strident voices and have an answer ready. The answer for architects is certainly not standing the whole site on its head.

A traditional golf course will

fit into the natural pattern and suit both site and golfer best of all. The bizarre productions of recent years come from the need for publicity, instant fame, and instant fortune. They also make it impossible for you to maintain except in a bizarre, immaculate artificial fashion, the sort of style which public parks used to demonstrate but happily no longer.

Your technique will best steer a way between the demands of golfers and of conservationists if you plant your feet firmly in tradition (and the greenkeepers of this kingdom are more familiar with golf's tradition than most).

To comfort you, I think we can all expect things to get easier. The World Wild Life Fund has just given up pure conservation in favour of a policy which takes account of human needs. Mankind is now an endangered species. Just work on that thought, otherwise, oddly enough, you may conserve yourself out of a job.

And further comfort comes from Sir David Attenborough "Golf Courses," he is quoted as saying, not quite grammatically, "have always and will always provide splendid wild life habitats for whatever reason they are conserved."

So next year the British Wildlife Appeal and the Royal Society for Nature Conservancy combine in organising the British Wildlife World Classic.

Competitions on your courses will precede regional finals. Two thirds of your course is probably rough. That's where the habitats are, mostly. You had better start thinking about what you are going to do with it.

We seem to have got it right between us so far but it is up to the greenkeeper in the end.

TURFGRASS EDUCATION IN THE '90s

Big changes are taking place in the national system of training and education, and the turfgrass industry is responding to the changes and initiatives as eagerly as any. Leisure and recreation management is expanding in numbers and skills. The management of sports turf and amenity grass facilities, natural and synthetic, is an increas-

ingly demanding profession. The National Turfgrass Council is holding a workshop at Pershore College, Worcs., on Friday 17 June, to bring the industry up to date on the latest developments.

The Education Committee of the NTC has been closely concerned with several recent developments that will be explained fully, including the preparation of a BTEC Diploma in Turf Science and Sports Ground Management; the pioneering of a part-time route for this in addition to the usual fulltime route; the integration into managerial training of the new award. "Master of Sportsturf Management (IOG)" as the new pinnacle of achievement within the educational structure of the Institute of Groundsmanship; and the creation of a Training Information Base for amenity horticulture.

Educationalists are particulary welcome to the NTC Pershore meeting to get the inside information on all that has been happening in the NTC Education Committee recently; to hear authoritative statements from NCVQ, NEB and BTEC on how they see the future of turfgrass training; and to put questions on any aspect of turfgrass educations.

The cost is £29.00 (inc. VAT). Application form & details from: The Secretary, NTC., 3 Ferrands Park Way, Harden, Bingley, West Yorkshire. BD16 1HZ Telephone: (0274) 565131.

Last month in an article concerning course alterations at Moor Allerton, sharp eyed readers noticed changes to the 17th green will approach over a small lake some 30 years from the green. A number of wags have suggested golfers will be a bit late home for lunch! It should have read 30 yards. We also don sackcloth and ashes over the stated venue for this year's Open Championship, which was given as Royal Birkdale. It should of course have been Royal Lytham & St. Annes.

At least we did get the right part

of the country.

THE NATIONAL TURFGRASS COUNCIL ATTRACT MORE PATRONS

The Jacobsen Division of Textron Ltd., based at King's Lynn, Norfolk, and one of the leading manufacturers of grass mowing equipment, has become yet another of the Council's Gold Patrons for the year of 1988. Chris Smith, U.K. Sales Manager, in confirming the Patronage said, "We are delighted to support the Council in its work to represent our industry and to co-

represent our industry and to coordinate effort, particularly in the education and training field. We feel it important to join with our colleagues in the industry to achieve the improvements we all want to see, and this is a fine way for us to do so".

Jacobsen joins Toro, Ransomes and Lely as major forces in grass machinery supporting the Council as Gold Patrons.

Also confirming a Gold Patronage to the Council is Kubota (UK) Ltd., manufacturer of compact tractors and ancillary equipment for turfgrass and the amenity field.

The NTC Premier Patronage Scheme has also recruited recent Silver Patrons for 1988 in Booker Seeds Ltd., W.W. Johnson and Son Ltd., and Howard Swan Ltd. The Sports Council has pledged three-year support as Bronze Patrons, in the company of three other newly-joined Bronze Patrons — The Amenity Grass Marketing Association, Farmura Ltd., and Mommersteeg International.

NTC Chairman, Howard Swan, commenting on these contributions, said, "I am exceptionally pleased to see that, at last, true support is being formed upon which we may build for the future. Our permanent Secretariat is being established in June and this will enable us to stride forward more purposefully. We are indebted to the generosity of our Patrons for their support which is making all this possible. The Patronage Scheme has proved to be highly successful and I have no doubt will be developed further for the future years. There remain a few of our major UK companies who have not supported us and I would hope that they would still consider supporting us as Patrons.

"My forthcoming meeting with the Minister of Sport will, I believe, underline the Council's role in our increasingly important industry, both at home and in our exporting, and I look foward to the Government's active support to help us in future".

ISEKI IS THE GREENKEEPERS CHOICE AT GLENEAGLES



Iseki is the Greenkeepers choice at The Gleneagles Hotel, where 3 Iseki Tractors have recently been delivered by Reekie Plant, for use on their world famous Championship Golf Courses.

The Gleneagles Hotel and Golf Courses, Auchterarder, Perthshire, has recently taken delivery of three Iseki Tractors to work on their world famous Courses.

Over recent years, The Gleneagles Hotel has grown both in stature and diversity with seventeen sports being available on the Estate and with new enterprises being available this year including the Gleneagle Mark Phillips Equestrian Centre.

The Iseki Tractors, two 30 horsepower TE 4270's and a 40 horse power TE 4370, are now at work on the Estates four championship 18 hole Courses in preparation for such events as the Bell's Scottish Open Championship, which takes place in July, plus a whole host of company and pro-celebrity events planned for the year.

Gleneagles' Estates and Golf Courses Manager, Jimmy Kidd, left the choice of machinery open to each of his respective Head Greenkeepers and it is they who decide on the machinery most suitable for their own Course. According to Mr. Kidd "To have all three Courses decide on the same make was rare indeed and was really for two reasons; firstly, because of the complete specification offered on the Tractors and secondly, because of the back up from Reekie Plant, Iseki's Scottish Distributors who supplied the Tractors"

The three Tractors will be involved in a wide variety of work particularly for Vertidraining and Power Gang Mowing, to prepare the Courses for the many prestigious Golf Tournaments which Gleneagle hosts each year.