

is still the best method for incorporating sand into the green profile as well as for thatch management. Where water injection cultivation scores so impressively is in enabling aeration programmes to be maintained when conventional methods are not feasible or desirable. The long-term benefits can be measured in terms of improved soil structures, healthier greens and fewer disease problems – with a subsequent reduction in the need for fungicide applications.

The equipment needed for water-injection cultivation is the Toro Hydro-Ject 3000, which incorporates a pump; an accumulator; a single valve and set of nozzles. Once the unit is filled with water (it uses approximately 150 gallons to aerate a 7000 square foot green), the positive displacement pump maintains a constant 5000 psi water pressure on the system accumulator, which acts like a capacitor in an electrical circuit. Output from the accumulator is controlled by a valve which, when opened, releases water to the nozzles in short cycles of a few milliseconds. On reaching the nozzles the water



The Toro HydroJect 3000, seen here in action at Westurf '91, deploys two additional swing-up wheels for transportation

is pulsed at a very high velocity numerous times a second, enabling it to penetrate from four to eight inches into the soil with a single shot. The unit is actually capable of penetrating the soil up to 20 inches or deeper with repeated shots.

As the pulse of water enters the ground, its action is similar to that of a bullet. The entry point on the surface is about 1/8 inch in diameter and horizontal dissipation takes place deep into the soil below; where adjacent layers of soil are shattered by the pressure of the water – the system does not rely on physical impact, abrasion or erosion of the soil.

Considerable engineering problems – to ensure high performance, reliability and safe operation – had to be overcome in building the HydroJect 3000. All connections, for example, are hard-coupled throughout and extensive use is made of stainless steel and other corrosion-resistant materials.

Exhaustive tests of the system have been conducted during a three-year research project at Michigan State University. This provided conclusive proof that plots undergoing water-injection cultivation had a more uniform turfgrass quality than plots which did not receive this treatment. Compared to both hollow-tine cultivation and non-cultivation, plant growth also improved – in the case of hollow-tine cultivation, the difference was probably due to the loss of crown tissue.

The research demonstrated water-injection's potential for encouraging deep rooting, which should increase the stress tolerance of turf. Soil physical properties were improved compared to non-cultivated plots and were similar or superior to the traditional vertical hollow-tine method. Using water injection, soil was cultivated deeper in the soil profile compared to hollow-tine cultivation and soil strength measurements showed that it was effective to a depth of four inches – hollow-tine cultivation was effective to only two inches.

Data showed that with time and continued traffic there was a need to re-treat the soil eventually – whichever method was used. However, with the disruptive and injurious nature of hollow-tine cultivation, it is imprac-

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Water injection cultivation

From Page 31

tical to consider this on a frequent basis. Since water-injection cultivation appeared to be the aggressive cultivator, yet caused significantly less damage, it can be used on a more frequent basis to manage compaction-prone soils. The shape of the channel created by water-injection cultivation varied with soil texture and strength. A long, slender channel is created in soils of low strength, while soils of higher strength have a reduced channel depth although the channel will have a larger diameter at its lower end.

Jim Murphy, leader of the research project, concluded that water-injection cultivation was much more effective than non-cultivation in improving soil physical conditions, such as bulk density, aeration porosity and saturated conductivity. Compared to hollow-tine cultivation, it ensured greater depths and, consequently, management of a larger soil volume. This offers the facility to break through and disrupt subsurface layers – like a cultivation pan – which inhibit water and gas movement as well as deep root growth. And since all this can be achieved with less turf damage than is possible with vertical operating hollow-tine cultivation, it is a more feasible method for frequent cultivation of compaction-prone soils – including before or during conditions considered too stressful for other methods.

● For further details and an address to write for full technical data, see back cover.

Presenting the case for water, water everywhere

From the increasing pre-occupation of greenkeepers, course developers and pundits generally with the subject of water, golf could perhaps light-heartedly be classed as almost an aquatic sport.

Certainly a drought can change the whole playing complexion, whilst at the same time being responsible for serious turf deterioration. Yet a high proportion of courses in the UK lack any adequate water storage, though drought conditions continue, with last year's rainfall being the lowest since 1976. It is understood that a licence application may well fail if water storage is not provided. Indeed, abstraction of water may be prohibited for periods as much as three months.

The National Rivers Authority therefore encourages on-course storage. The average use of water on a course for greens and tees is some 20,000 gallons per day, say four million gallons over seven months. Virtually no rain at all would mean relying on finding something like five million gallons.

The cost of abstracting water from borehole or stream is given in pounds per million gallons:

	WINTER	SUMMER
Wessex	17.73	53.19
South-West	29.52	39.36
Southern	59.46	336.96

Cost of abstracting water from main supply = £2350 per million gallons.

Water storage, now of increasing importance in course irrigation, fits neatly into the operations of OCMIS Irrigation, the Martock, Somerset based company who have enjoyed considerable success as irrigation specialists in agriculture and fineturf.

Their infrastructure includes expert consultation and design and in keeping with their policy of keeping abreast with the latest developments they monitor and study the subject world-wide.

An immediate plus is their close affinity with the water companies, which at first might appear routine enough, but in reality means a saving of several days of reconnaissance and consultation, mapping out the nearest boreholes etc. and having access to records. Liaison with the electricity companies is equally well advanced in facilitating sources of single-phase power where three-phase is not available.

The use of attractively landscaped lakes as storage is one possibility where there is enough water available for topping-up purposes, another being the use of special irrigation tanks.

Such tanks need to be well sited, either above or below ground level.

It is in this respect that OCMIS have achieved great success in agriculture and are on course to repeat this in golf, where almost a month's supply of water can be easily stored on or adjacent to the course.

Joint Committee sets out to improve the lot of the greenkeeping profession

The great cause begins



by ERIC SHIEL

The R and A creation of the Joint Golf Course Committee is a major boost to the well being and future of the greenkeeping profession. With the formation of this committee the R and A have extended their horizons beyond the playing of the game into concern for the surface upon which the game is played.

The message to greenkeepers is that help is coming to them in a way that could not have been imagined as little as five years ago. But for the intervention of a green committee chairman, the much acclaimed discussion document 'The Way Forward' might never have seen the light of day. Thanks also to the ghost of Old Tom Morris or someone of that ilk, Eddie Park took his duties at Lindrick Golf Club seriously. Devoted to the teachings of Jim Arthur, then Championship Agronomist to the R and A, Park saw his problems as endemic to the game. As the Lindrick course gradually gained its self respect, so the great cause began.

Armed with this experience and knowing the extent of the problems by personal visits to the many Clubs around the British Isles, Eddie Park approached the Home Unions for their support. With little prompting they readily agreed and the R and A gladly pitched in.

Number one priority for this Joint Committee is to find ways to improve the lot of the greenkeeping fraternity. This will be by way of enhancing educational opportunities, recruitment policies to encourage quality entrants into greenkeeping and provision of higher technical standards. This technical knowledge will come out of the committee's panel, which will be a gathering of the best minds specialis-

ing in the likes of agronomy, science, course design, nature conservancy, environmental issues and allied subjects. The Sports Turf Research Institute will be highly visible in these deliberations.

Greenkeepers can only benefit from these initiatives. Independent voices and influential organisations will be speaking and working on their behalf. There will be little need for greenkeepers to blow their own trumpets. The policy shapers for the future of golf courses in Britain and Ireland will be Tim Taylor, R and A; Peter Wilson, English Golf Union; Gerry O'Brien, Golfing Union of Ireland; Lindsay Stewart, Scottish Golf Union; and John Vaughan Evans representing the Welsh Golfing Union. The ultimate philosophy is that greenkeepers deserve more attention and support, not to forget consideration. Club members will have to understand that if they want good looking courses, playable 12 months a year with no temporary greens (barring Mother Nature) and no mats on tees, they will have to start backing the greenkeeper like never before. Everything to do with providing all golfers with the best possible playing conditions at the most reasonable cost on traditional British courses will be addressed by the Joint Golf Course Committee. BIGGA will play a major role. Keep a watchful eye in Greenkeeper International for further reports.

● Eric Shiel, the Executive Director of the Joint Golf Course Committee, is a native of Carnoustie recently returned from America, where for nine years he was with the USGA Green Section in charge of regional affairs and public golf: in his own words – 'taking golf to the people'.

AROUND THE GREEN

Keeping in touch with news and comment from the regions

SURREY

On what seems to have been the best day of the year so far, The Surrey Spring Meeting/Iseki Qualifier was held at Richmond Park GC. Everyone I spoke to thoroughly enjoyed the day and expressed grateful thanks to The Club and their staff. We wish them a successful centenary year.

ISEKI Qualifiers were: Handicap 1-9: I.Hogg; R.Glazier; D.Worsfold; reserve: A.Donlevy. Handicap 10-18: G.Kyle; P.Main; T.Huntley; reserve: K.Harding. Handicap 19-24: J.Hunter; G.Jukes; A.Last; reserve: D.Andrews. Our thanks also to Ron Jobson who again acted as our starter and to all our trade sponsors who kindly supplied prizes.

The Cresta Cup will be held at Ashford Manor GC on Friday July 12th starting at 3.00 pm. Cost will be £13.00 per player.

Now a warning: apparently some members have been lending BIGGA membership cards to others, thus allowing them illegal access to playing facilities at golf courses. If YOU are guilty, or are aware of others who might be guilty, understand that this is a very serious offence which at best could damage all our reputations and at worst result in expulsion of the culprit and perhaps the withdrawal of this facility for ALL members. Don't ruin something we all appreciate!

We have two trips on offer, one to Jacobsen's factory in July and another to Rolawn in October or November. If these appeal, contact a committee member or myself. Also items of news or interest for inclusion in this column, please call me on 025 125 4287.

PHIL BALDOCK

SUSSEX

Our match on April 17th was held at The Nevill, on a course in good condition despite a very cold wind and even some snow! Brighter by far than the weather was the reception meted out to all within the clubhouse - our grateful thanks. Results: Morning Stableford - (greenkeepers) 1st R.Day; 2nd C.Reed; 3rd R.Hughes. (trade and guests) 1st B.Wilmott; 2nd D.Wood. Afternoon medal - (greenkeepers) 1st M.Butrymowicz; 2nd P.Ray; 3rd C.Tate. (trade and guests) 1st B.Diddams; 2nd J.Coppen.

Our thanks go to John Shaw for the Stableford prizes and to Rigby Taylor for sponsoring the Medal, together with best wishes to the following qualifiers for the ISEKI Regional Final at Ham Manor on July 3rd: G.Barr; R.Day; R.Short; C.Wakeham; C.Reed; M.Priviet; A.Cale; P.Negus; P.Ray; D.Coomber; M.Butrymowicz; C.Tate.

DICK BULL

SOUTH WALES

April 24th saw our Spring meeting off to a fine start with players competing for the Cardiff Cup over the testing Pontypool course. This 18 hole event was the section qualifier for the ISEKI Championship, the regional final to be held at Tredegar Park on June 27th.

Fighting it out and making respectable scores was made possible for the 24 competitors by a pleasant day, though the wind was blowing fiercely over the mountain top! Every credit then to Hugh Parry, (pictured left), who took the Cardiff Cup with a 69, a crystal tankard donated by SISIS and an additional tankard for winning category two. Winner of the first category was Mike Jones with a 73, Anthony Millar win-



ning the third category with a score of 70. Both players also won tankards which, along with the winner's tankard, were all generously donated by Celtic Mowers of Swansea.

Meetings such as these owe much to the generosity of Golf Clubs and our friends in the trade and we acknowledge with thanks our gratitude to: Pontypool GC; Munro's; ICI; Avoncrop; Stabrite and SISIS. Also our thanks to Brian Roberts and his green staff for an excellent course and to the steward and stewardess for 'inner satisfaction'.

ISEKI qualifiers: (0-9) John Carter; Gerwyn Price; Graham Cox; Huw Morgan; reserve: Dennis Jones. (10-18) Hugh Parry; Tony King; Malcolm Davies; Julian Bartlett-Jones; reserve: Philip Swain. (19 and over) Anthony Millar; Brian Price; Leslie Hallett; Mike Norfolk. reserve: David Roberts.

PHILIP SWAIN

EAST OF ENGLAND

Our 1991 season began with two lectures, the first delivered to a well attended audience by Jon Allbutt - Technical Consultant to the Leisure and Amenity Industry - his topic being The New COSHH Regulations. This proved to be a real 'eye-opener' for those who had not given much heed to these new and important laws. Hopefully it jolted them into action after hearing of the penalties that can be imposed. Thank you, Jon, for an absorbing evening and our thanks to Mike Shepherd, who organised the lecture.

The second lecture, also well attended, was on Soils, Sands and Ph for use in Top Dressing, given by Peter Jefford of Rufford Top Dress Supplies Ltd. Peter has a way of putting his subject over well and when followed by a question and answer session it proved to be both informative and entertaining. Refreshments were much appreciated, with a raffle won by Eric Berridge.

So, into the fresh air we go for our first golf meeting, which will have been held at Blankney, Lincoln, by the time this June issue is printed. This ISEKI qualifier, sponsored by Purdy's of Retford, will be reported in the next issue.

DIARY DATES: June 24th - ISEKI Regional at Belton Park; July 10th - Visit to Collingtree Park. Sept. 11th - Rigby Taylor Cup at Sleaford. Oct. 30th - Lamb Trophy at Burghley Park. November - Visit to new Greatham Valley GC. December - AGM and Lecture.

COLIN SWINGLER

SOUTH WEST

Spring was cancelled this year. At least that's what it's been feeling like out on the greensward. Never mind, the members are an understanding lot aren't they...? "My lawn's OK, what's up with your greens? They looked great at Augusta!" Whilst on the subject of Augusta, hearty congratulations to 'Wee Woosie'; and to the European Tour for providing the last four Masters winners. It's worth remembering that the best players in the world now play on our courses, so let's keep the standards high.

Our Spring Meeting was played on another very un-Spring like day at the Bristol and Clifton GC. Cold, damp weather at the start hardly made for good scoring; but congratulations to Robin and his staff for preparing the course for us. I'm sure Robin has his sights set on the County Championship and our best wishes go with him. Our thanks go to everyone at Bristol and Clifton, with special thanks to Club Captain, Ted Jackson, for presenting prizes and for his great hospitality ➤ 36



Roger Glazier - a qualifier for ISEKI honours



Simon Marsh and Mark Drake, peering from the cab of their trusty Cushman

Golf course and estates manager, Simon Marsh, is the man responsible, along with head greenkeeper Mark Drake, for the maintenance and grooming of Pennyhill Park Hotel and Country Club. This stately English Country Manor House, nestling on the Surrey-Berkshire border is something of a haven of calm from the bustle of central London just 27 miles away.

As a hotel it is in a category not dissimilar to Claridge's or The Ritz, catering for the wealthy few who can and do enjoy the pursuit of excellence. The owners must have realised that golf was 'taking off' and guests play on a progressively developing little nine-hole course, fish for trout in a three acre lake, ride horses, play tennis, shoot at clay pigeons and generally bask in the wealth laden atmosphere that pervades Pennyhill's every pore.

Wonderful, you might say, and to stay here is indeed a

Hole in one

DAVID WHITE at the exclusive Pennyhill Park Hotel, where he discovers bunker excavation in one very easy lesson

wonderful though staggeringly expensive experience. What is equally impressive is that Simon and Mark, together with a crew of five, not only look after the extensive estates and the golf course, but cater also to the demands of between 350-400 members, who pay over £600 a year (I said it was expensive!) to play over a 32 SSS layout that measures just 2,022 yards with five par threes and four par fours. With an estimated 35,000 rounds played every year (actually 70,000 if one assumes that players zip round twice), there is little chance of closing a hole or two down whilst essential work is carried out or additions are installed, thus when the need for two new bunkers was mooted the use of sophisticated earth moving equipment was demanded.

A call to Melroe Europe, the makers of Bobcat Skid-Steer loaders, was timed to neatly fit with plans to demonstrate the features of their revolutionary new Bobcat 753, and the

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**'Within an hour
the excavations
were done; with
scarcely a mark
to show where
the Bobcat had
performed such
wizardry'**

stage was set. First, contours of the new bunkers were white-lined directly onto the grass, no doubt designed by tour player Roger Davis, who is a member and uses the course regularly. Next the Bobcat 753 was brought out to excavate the soil to exactly the right depth and contours, doing what only a Bobcat can do: stand on its head, turn on a sixpence and perform such miracles that you soon realise the wheel has been re-invented!

Within an hour the excavations were done; with scarcely a mark to show where the Bobcat had performed such wizardry, 40 tons of sand was expertly installed the following day and the bunkers were complete – start to finish – in 24 hours. Left a month to bed-down, they are now in play and quite properly frustrate all who land in them!

Simon has never prepared a course for The Open, and his nifty little nine will not be found in a list of any top 100 courses. But credit must be given that, like thousands of other greenkeepers up and down the country, he works hard under less than ideal conditions to create a course that one scribe described as a masochist's delight.

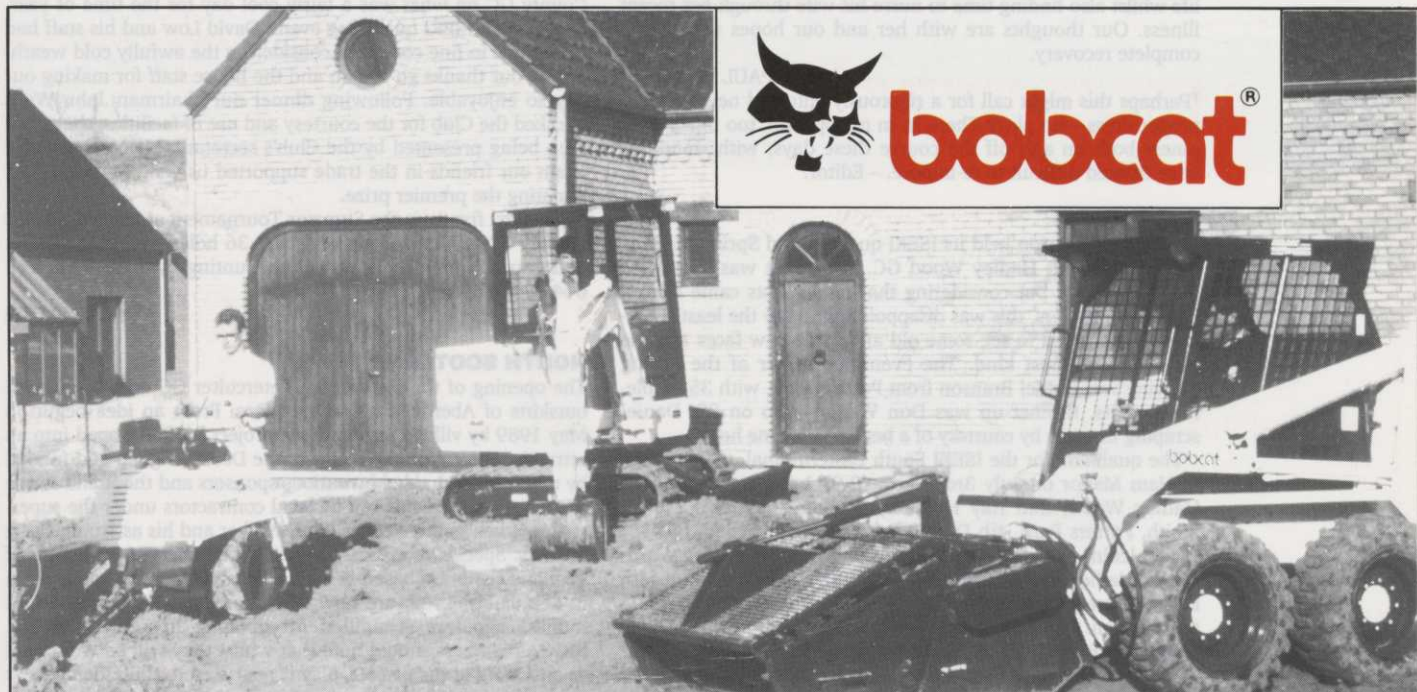
Of the course itself, it is another that claims no architect. Built just ten years ago, it has impossibly sloping greens, is on one of the highest points in Surrey – with resultant drying winds a constant negative factor – and has only about 1" of topsoil in some places. It has no automatic irrigation yet



**Bobcat 753 in action
at Pennyhill Park**

it drains well whilst consuming vast quantities of wetting agent. When Simon first came to Pennyhill there were rubber tee mats everywhere, these now replaced in entirety by 800+ sq. yard grass tees that seem to be surviving the constant onslaught.

The place has its share of visiting stars too, with tour players often staying at Pennyhill when Wentworth is a tournament venue, using the course for essential target practice. The course record – 30 – is held by Severiano Ballesteros, which proves it's no walk-over! With plans to add another nine holes, the future of Pennyhill seems set fair, as do the careers of these likeable young BIGGA greenkeepers, not to mention the other star of the show, the Bobcat 753 Skid-Steer loader.



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Ian Woosnam, the '91 Masters Champion

33 ➔ towards us, including his waiving of the dress rules in order to accommodate those amongst us who had NOT BROUGHT JACKETS! HONESTLY, I was ashamed. Please remember that not only are we guests in the Clubs we visit, but also ambassadors for greenkeeping and greenkeepers. This means dressing correctly and projecting a professional image. I certainly felt the standard of dress at lunch left a lot to be desired, never mind expecting to be allowed into the Club at evening time without a jacket. Please remember to dress correctly at all times in future.†

Results of this ISEKI qualifier were: 1st P Worster (4) 71. 2nd J Taylor (2) 72. 3rd T Crewe (9) 72. 4th P Connett (11) 73. 5th J Leigh (24) 74. 6th J Millar (5) 75. The ISEKI Team is: (0-9) P Worster; J Taylor; T Crew; K Millar. Reserve: C Rawlings. (10-19) P Connett; S Rattenbury; D Everett; J York. Reserve: J Farley. (20 -28) J Leigh; R Gates; D Pople; P Baynton. Reserve: P.Cox. All team members are expected to play in the Regional Final at Tredgar Park on June 27th.

Another diary date is the Section AGM – Tracy Park G and CC, November 21st – which will be sponsored by Maxwell Hart and will hopefully feature a display of the 'Terralift' deep aeration machine. Richard Danter and his staff will be along to answer questions.

I would like to take this opportunity to thank all members who assisted at Westurf, making it the success it was. In particular, Robin Greaves and Chris King, who did a deal of 'leg work' for us, and those who took turn on the gate. I cannot close without thanking Gordon and Marion Child (hope the nervous breakdowns are better!), also Ivor Scoones, who as usual has managed to cram in about three different full time jobs in his life whilst also finding time to nurse his wife through her recent illness. Our thoughts are with her and our hopes are for her complete recovery.

PAUL WORSTER

†Perhaps this might call for a rigorously enforced new rule. No proper dress – no play? There is, in my opinion, too much sloppiness both on and off the course these days; with standards once relaxed difficult to re-impose. – Editor.

LONDON

The London Section held its ISEKI qualifier and Spring Meeting on April 24th at Hadley Wood GC. The event was supported reasonably well but considering that nine guests came from a total of 36 players, this was disappointing to say the least. However, it was good to see some old and some new faces and the weather was most kind. The eventual winner of the Spring Meeting was Daniel Branson from Porters Park, with 35 Stableford points. Runner-up was Don Wilson, also on 35, Daniel scraping through by courtesy of a better back nine holes.

The qualifiers for the ISEKI South Eastern Final, to be played at Ham Manor on July 3rd, were: (0-9) 1st Craig Handyside, Hadley Wood; 2nd Ray Howlett, Dyrham Park. 3rd Martin Smith, Porters Park. 4th Darren Burdis, Hadley Wood. (10-18) 1st Malcolm Storey, Hatfield and London. 2nd Robert Washbrook, Hadley Wood. 3rd Andrew Phillips, Hadley Wood. 4th Barry Webster, Pinner Hill. (19-28) 1st Robert Kendall, Hatfield and London. 2nd Gary Speller, Abridge. 3rd Jeff Fowler, Sandy Lodge. 4th Brian Kelly, Hainault Forest.

The staff at Hadley Wood, especially the kitchen girls, looked after our every need and served a delightful meal, with our trade members supporting us tremendously yet again, excelling themselves with superb prize donations. Our thanks to them all.

ANDREW PHILLIPS

MIDLANDS

April 8th saw us playing our Spring Tournament at Kings Norton GC on a day that was bitterly cold, though this was more than compensated for by the enjoyable time had by everyone. The nett prize was won by Steve Wood and gross by Tony Cheese. Players qualifying for the ISEKI regional final will be notified in the near future. Our thanks to Ray Hayhurst and his team for excellent course conditions and to the catering staff

AROUND THE GREEN

who provided us with a fine meal to seal a successful day.

The Midlands Section committee played for the Officers Cup at Walsall on April 24th, this again resulting in a tie between Mike Hughes and Peter Richmond; Mike eventually winning on a back nine count. Our thank to Walsall GC, especially their chairman of green, his wife, and the Club secretary who joining us for our evening and to Steve Wood and his team for a fine, well presented course.

DEAN CLEAVER

KENT

Not too much to report this month. Section members should have received a newsletter with dates of all this year's fixtures. I hope these will all be well supported.

I do know that two familiar faces will be missing however, although this may result in some of us standing a better chance of finishing in the prize winners circle. I refer to Andy Toomey, who has recently left his head greenkeepers post at Bexley Heath to move back to Essex at the new Hanover development near Hullbridge. Duncan Kelso is also on the move from North Foreland to join one of Howard Swan's projects. Although Duncan is leaving the county, Howard Swan seems to be very active in our region with his involvement in projects at Sandwich and, believe it or not, my own course, humble Barnehurst. It will be interesting to see how things develop.

Before finishing, may I thank the lads at West Malling for leaving the Invicta Motors Verti-Drain in such good condition for me, the next user. Apart from the back window on the cab being smashed (just my luck, for the days I used it we had wind and rain a-plenty), I had only made a single run to set it up before the clutch went. Thankfully it was fixed the next day.

PAUL COPSEY

MID ANGLIA

Our golfing fixtures began on April 17th at the Northampton County GC on what was a fairly cool day for the time of year. This was an ISEKI qualifying event. David Low and his staff had the course in fine condition considering the awfully cold weather and our thanks go to him and the house staff for making our day so enjoyable. Following dinner our chairman John Wells thanked the Club for the courtesy and use of facilities, the prizes then being presented by the Club's secretary, Mr Morley. Once again our friends in the trade supported us well, Maxwell Hart donating the premier prize.

The next fixture is the Summer Tournament at Letchworth GC on July 17th. This will be held over 36 holes, will cost £16.50, and entries should be sent to Ken Bunting by June 30th. Tel: 044 284 3359.

GEOFF SMITH

NORTH SCOTLAND

The opening of the picturesque Peterculter GC on the southern outskirts of Aberdeen has taken place. From an idea begun in May 1989 by village residents the project has developed into an attractive setting on the banks of the Dee. Designed and funded by members and aided by various sponsors and the R and A, the work has been carried out by local contractors under the supervision of head greenkeeper Allan Walker and his assistant, Craig Mackay. Specifications were provided and checked by Greens of Scotland, who are based in Aberdeen and the nine holes, sown in September 1989, are now in play. A second nine, sown 12 months ago, are scheduled for opening in September '91. BIGGA members should note that whilst they will be welcomed as observers of the project, play is restricted to Club members at present.

Royal Dornoch are pressing ahead with plans to upgrade and improve their second 18 holes, titled the Struie course. Their long term plan is to bring it to a standard where visiting parties will play one round on Struie and a second on the main course, thus relieving pressure on the championship course.

Iain MacLeod, head greenkeeper at Tain GC, has been selected as our representative for the Scottish Team in the Ransomes International Tournament. Iain, handicap four, has been a 'regular' at section events over the years and the committee feel this is just reward. He will, we are sure, prove an excellent ambassador for our area and our hopes are that he will emulate George Paterson of Montrose, who was our representative ➔ 45

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We are looking for a multi skilled Greenkeeper to join the management team at the Complex and be responsible for the operational running and maintenance of the outdoor facilities. These facilities are subject to Compulsory Competitive Tendering so you must have the ability to work to a specification as laid down by the client. Within the budget allocation the successful applicant will have a high level of freedom to develop the grounds operations, directly supervising a working team of

five staff, and being involved with a number of large scale open air special events.

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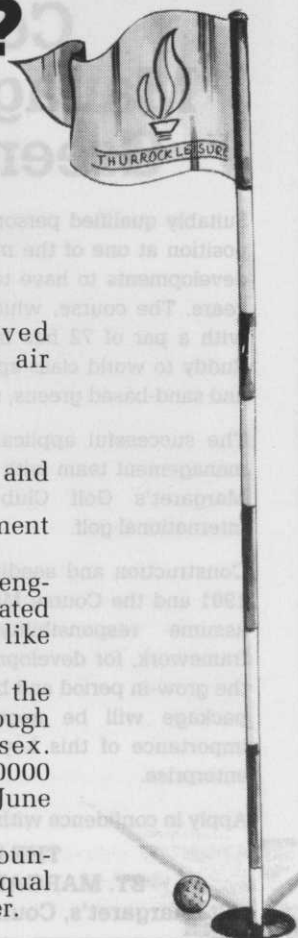
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Telephone Grays Thurrock (0375) 390000 extension 2078. Closing date: 28th June 1991.

Thurrock Borough Council is aiming to be an Equal Opportunity Employer.



THURROCK LEISURE



DEPUTY HEAD GREENKEEPER

The Gleneagles Hotel is the country's premier golf resort and is currently seeking to strengthen its estates department team by the above appointment.

Gleneagles is home for two of Scotland's classic courses - the King's and the Queen's and is the location for the Bell's Scottish Open Championship.

A new championship course, the Monarch's, designed by Jack Nicklaus, is currently under construction and there is an on-going challenge in providing the best golfing facilities in the country.

The successful applicant will have at least five years' greenkeeping experience and be fully certificated in golf course maintenance and the use of pesticides.

A committed team worker with good communication, training and man management skills is required.

Applicants should write, with full career details to date, to Mr J Kidd, Estates and Golf Courses Manager, The Gleneagles Hotel, Auchterarder, Perthshire, PH3 1NF.

The closing date for receipt of applications is 30th June 1991.



THE
GLENEAGLES
HOTEL

ST. MARGARET'S GOLF CLUB

Course Manager/Head Greenkeeper

Suitably qualified persons are invited to apply for this position at one of the most prestigious, upmarket golf developments to have taken place in Ireland in recent years. The course, which measures over 7,000 yards with a par of 72 has been designed by Craddock & Ruddy to world class specifications and features lakes and sand-based greens, set in beautiful rolling terrain.

The successful applicant will fit into a progressive management team with the shared aim of bringing St. Margaret's Golf Club to the very forefront of international golf.

Construction and seeding will be completed in June 1991 and the Course Manager/Head Greenkeeper will assume responsibility, within the managerial framework, for development and maintenance, during the grow-in period and beyond. Salary and employment package will be negotiated and will reflect the importance of this key position in an exciting new enterprise.

Apply in confidence with full CV to:

THE MANAGER
ST. MARGARET'S GOLF CLUB
St. Margaret's, County Dublin, Tel: 01-361897



John Jacobs

Golf Associates Limited

On behalf of Colne Valley Golf Company Limited, John Jacobs Golf Associates Limited is recruiting a

COURSE MANAGER

for a prestigious 18-hole John Jacobs designed golf course at Denham, Buckinghamshire.

This Parkland course is sown down to Pennlinks Greens and Penncross Tees with conventional Bent/Fescue fairways and rough, and will be maintained to the highest standards.

Proven management ability and personal skills will be necessary for this post which includes a staff of 15, the latest maintenance machinery, (Jacobsen and Kubota) and Toro 3000 irrigation systems for greens, tees and fairways.

Purpose built greenkeeping facilities will provide an excellent working environment. The salary will attract the quality and experience required for this important position.

Applicants must have a minimum of five years experience as a Course manager, full City and Guilds Greenkeeping qualifications being preferred. Good communication skills and personal presentation will also be required of the successful applicant.

The Course Management operation will be administered by the TRIMS software, therefore computer skills and a knowledge of this system will be an advantage.

Applications, which will be treated in the strictest confidence, must include full personal and career details together with the names and addresses of two referees, and should be made in writing to:-

JOHN JACOBS GOLF ASSOCIATES LIMITED,
68A HIGH STREET,
WALKERN,
STEVENAGE,
HERTS SG2 7PG.

Tel: 0438 861 438
Fax: 0438 861 788

The Vale

Golf & Country Club

require a

Head Greenkeeper



This is an exceptional opportunity for the right person to be part of the future. This 27 hole complex, 4 miles from Evesham, is nearing completion. 11,000 playing yards, wide fairways on 270 acres established in 1989. American style greens, sand based and fully irrigated planted with penn-cross. All tees fully irrigated and a minimum of 1000 sq. metres. Free draining course with water features part of the golfing strategy. Water supply of 46 million gallons available from winter storage. High spec new equipment with well stocked modern workshop and resident fitter. Magnificent 16,000 sq. ft. clubhouse. Our aim is simple: to create the best. The person required must have the knowledge and experience to realise its potential. Accommodation available if required. If you feel that you can convince us that you have the commitment and background to be part of the team, please contact in writing in the strictest confidence:

Mr R. Harrison, Business Manager, The Vale Golf & Country Club, Hill Furze Road, Bishampton, Nr. Pershore, Worcs WR10 2LZ



SWINTON PARK GOLF CLUB

require a

COURSE MANAGER DESIGNATE

Who will be responsible for the maintenance and development of this 18 hole golf course.

Applicants must be fully qualified and experienced in all aspects of greenkeeping and turf culture. A practical knowledge of the use and maintenance of modern machinery and the ability to control and motivate staff are essential.

Salary negotiable according to qualifications and experience.

Please apply in writing with full CV to:

**Green Chairman, Swinton Park Golf Club,
East Lancashire Road, Swinton, Manchester
M27 1LX**

HOTEL TREUDELBERG

Golf & Country Club, Hamburg

A member of the Whitbread PLC

require a

DEPUTY COURSE MANAGER

Applications are invited for this challenging position at the newly built Hotel Golf and Country Club in Hamburg, Germany. The Golf Course (18 holes + 3 hole academy + 9 hole Pitch & Putt) is due to open in spring 1992.

A thorough knowledge of all aspects of course maintenance is essential together with at least 3 years practical experience and knowledge of the German language. Assistance will be given with finding accommodation.

Here is your chance to join Country Club Hotel's exciting new venture into Europe.

Please apply together with a current CV to:

Bob Hargreaves, Course Manager, Hotel Treudelberg, Golf & Country Club Hamburg, Lemsahler Landstrasse 45, 2000 Hamburg 65, Germany

St Andrews

HEAD GREENKEEPER — EDEN COURSE



The current Head Greenkeeper has moved on to become Course Manager at a 36-hole location and an immediate replacement is sought.

The Eden Course lies alongside the Eden estuary, has comprehensive irrigation installed and is an integral part of the St Andrews Links complex of five 18 hole courses and one 9 hole course. The course has a SSS of 70 and measures 6,315 yards. Major competitions are played over the Eden Course in August each year.

The Head Greenkeeper will have full authority and responsibility for managing his course, including preparation and control of annual budgets; he will enjoy the advantages of a first class range of maintenance machinery and the stimulus of working in close co-operation with other Head Greenkeepers, as well as being part of the team which is involved

in the Dunhill Cup each year and regularly hosts the Open Championship.

Applicants will be expected to provide evidence of excellent organisational and management skills, together with sound qualifications and experience in practical greenkeeping, either as a Head Greenkeeper or as first-assistant at a location enjoying a high reputation for the quality of course presentation.

A competitive salary, commensurate with the importance of the position, together with a first class pension fund and favourable terms of employment, is offered.

Please write, giving full details of qualifications and experience, to:

The Secretary, St Andrews Links, St Andrews, Fife, KY16 9JA, Scotland.

COODEN BEACH GOLF CLUB

Due to Retirement

Applications are invited for the position of

HEAD GREENKEEPER

Salary negotiable according to age and experience

Apply in writing with full CV to:

**The Secretary
Cooden Beach Golf Club
Cooden Sea Road
Nr. Bexhill-on-Sea
East Sussex TN39 4TR**



John Jacobs Golf Associates Limited

On behalf of Colne Valley Golf Company Limited, John Jacobs Golf Associates is recruiting an Assistant Course Manager for a prestigious 18-hole John Jacobs designed golf course at Denham, Buckinghamshire.

The course has a combination of conventional and Pennstate grasses and will be maintained to the highest standards under the control of a Course Manager

ASSISTANT COURSE MANAGER

To act as the deputy to the Course Manager and exercise overall responsibility and control in his absence.

With a staff of 15 and the latest maintenance and irrigation equipment, proven management ability and skills will be necessary for this post.

Applicants must have City & Guilds Greenkeeping Grades I, II and III, with high grade passes and a minimum of 4 years experience at 1st Assistant or Assistant Head Greenkeeper level.

The Course Management operation will be administered by the TRIMS software, therefore computer skills will be an advantage.

Purpose built greenkeeping facilities will provide an excellent working environment and a salary above BIGGA recommended rate be paid to the successful applicant.

Application to the above post, which will be treated in the strictest confidence, must include full personal and career details together with the names and addresses of two referees and should be made in writing to:-

**JOHN JACOBS GOLF ASSOCIATES LIMITED,
68A HIGH STREET,
WALKERN,
STEVENAGE,
HERTS SG2 7PG.**

Tel: 0438 861 438
Fax: 0438 861 788



DYKE GOLF CLUB

require a

FIRST ASSISTANT GREENKEEPER *or* EXPERIENCED ASSISTANT GREENKEEPER

Applicants must be suitably qualified in all aspects of course and machinery management. Salary/wage equivalent to BIGGA recommendations according to qualifications. No accommodation.

Applications in writing with full CV to:

**The Secretary/Manager, Dyke Golf Club Ltd.,
Dyke Road, Brighton BN1 8YJ**

SUNNINGDALE GOLF CLUB

has a vacancy for a

YOUNG GREENKEEPER

with or without basic experience.

A suitable appointee, with career ambitions, will be offered formal academic training after one year.

Accommodation available. Apply:-

The Course Manager, Sunningdale Golf Club,
Ascot, Berkshire SL5 9RR. Phone 0344 24306



A qualified

HEAD GREENKEEPER

is required to develop and maintain Brinsbury College's nine hole golf course.

This course, currently being constructed, will be used for the education of trainee greenkeepers, turf managers, teaching golf and will be for the use of a small private membership.

An interest in education, turf management, conservation and the ability to communicate at all levels will be a requirement of this post.

For an application form and job specification contact:

Brinsbury College

The West Sussex College of Agriculture and Horticulture,
North Heath, Pulborough, West Sussex, RH20 1DL.
Tel: Pulborough (07982) 3832 Fax: (07982) 5222



The closing date for applications will be two weeks from the publication of this advertisement.

DEPUTY HEAD GREENKEEPER

For new 9 Hole Parkland Course

Applications are invited from suitably qualified persons aged 20-35 years.

An ability to motivate and manage staff is essential. Salary: negotiable.



Please apply in writing to:

**Paul Harley – Head Greenkeeper, Leatherhead Golf Centre,
Oaklawn Road, Leatherhead, Surrey KT22 0BT**

STADDON HEIGHTS GOLF CLUB

invite applications for the position of

HEAD GREENKEEPER

Applicants must be fully experienced in all aspects of greenkeeping and have a practical knowledge of modern machinery and irrigation systems.

Accommodation is not available. Salary negotiable.

Apply in writing to the Secretary enclosing CV.

**Staddon Heights Golf Club
Staddon Heights
Plymstock, Plymouth
Devon PL9 9SP**

SCRAPTOFT GOLF CLUB (Leicestershire)

immediately require a

HEAD GREENKEEPER

Applicants should be suitably qualified and experienced in course management.

The ability to organise and encourage greenstaff is essential.

Salary is negotiable and accommodation is available.

Replies in writing with CV to:

**The Secretary, Scraftoft Golf Club,
Beeby Road, Scraftoft, Leicester LE7 9SJ**

Moorhall Golf Club

requires an

ASSISTANT GREENKEEPER

for this prestigious Midlands course. Applicants should be experienced in all aspects of golf course maintenance.

Please apply in writing with CV to:

**The Course Manager
Moorhall Golf Club, Moorhall Drive,
Sutton Coldfield, Birmingham B75 6LN**



Golf-Club Sylt e.V.

**NORTH SEA ISLAND
GERMANY**

require a **HEAD GREENKEEPER**

Applicants should be experienced in all aspects of Greenkeeping and modern golf course machinery. Knowledge of German language an advantage. Closing date of entry 30.6.91. Replies in writing with full CV to:

**Golf Club SYLT e.V., Golfplatz, 2283 Wenningstedt,
Germany**