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The Ocean Course
The Ocean Course at Kiawah, site for the 1991 Ryder Cup, is drawing huge praise from all quarters. In this exclusive full colour preview we look at the course from the environmental angle and applaud its unique drainage system.

The Other Side of the Green
Understanding 'the other side of the green' - the views and ideas of a green chairman - suggests both provocative reading and a better appreciation of the points of issue found on 'their' side of the greenkeeping conundrum.

BIGGA Education Conference 1991
The BIGGA National Education Conference enters its third year with a positive galaxy of speakers and topics. We preview some of the lecturers and look at the highly ambitious programme.

Greenkeeper of the Year
The waiting over, the BIGGA/ICI Premier Greenkeeper of the Year - Anthony Davies - is heralded as the worthy winner.

Turfgrass Diseases in Winter
Those wretched problems that beset many winter greens can be readily identified, properly treated and swiftly eradicated. Dr Neil Baldwin of the STRI tells you how.

DEPARTMENTS
Around the Green
Letters to the Editor
Faces and Places
Advertising Features

COVER PICTURE:
Native grasses frame the par-four 13th, at the spectacular Ocean Course in South Carolina.
An introduction to BIGGA's new magazine


As we enter 1991 I am delighted to learn that BIGGA will now be producing its new 'in-house' publication, appropriately titled 'Greenkeeper International'. A members' magazine is most important for all greenkeeping personnel, for it is the Association's main means of communication with its membership. It should enable members to keep abreast of developments throughout the profession and, equally important, keep members informed on key educational issues and proposals.

This is vital in terms of providing opportunities for course managers and greenkeepers to gain the qualifications and undergo training which will be essential to a successful future, both for themselves and for their chosen profession.

A highly professional team has been brought together to produce the new magazine, with an emphasis on quality of production and content. Do remember that this is your publication and your contributions will be vital to its success. Do not be afraid to voice your opinions, for there are many problems facing the profession and these should be aired through the columns of the magazine.

Approached constructively, I am sure there will subsequently be a much greater awareness and understanding of these problems within the game of golf in its wider aspects.

Your Association has made great progress in the last three years and greenkeepers now have a truly professional body to represent them. Nevertheless there remains much work to be done and for your part you should encourage many more greenkeepers to join and thus strengthen still further the power of the Association.

I shall look forward to reading the new magazine and to seeing it contribute in a positive manner to the further enhancement of BIGGA's standing within the game. I wish 'Greenkeeper International' every success.

Neil Thomas, BIGGA's Executive Director comments:

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Many members will be aware of the increasing problems experienced in recent months with the production and quality of the Association's magazine. Your Board of Management was faced with a number of serious matters relating to the magazine and, with the best interests of the membership in mind, a decision was made in December to terminate arrangements with the then publishers.

Furthermore, the Board resolved to produce its own 'in-house' publication under the all embracing title of 'Greenkeeper International', this to be produced with a solid emphasis on editorial content and concentrating on quality rather than pure size.

A highly professional team has been brought together, with advertising under the control of Bill Lynch and Carol Dutton. Both had worked on the previous magazine and are now established as staff members of the Association. Another name familiar to many from earlier days is David White, who needed little tempting to return as our new editor.

Production will be the responsibility of Tim Moat of Headline Communications, York. Tim's company has produced many of our Association publications and is noted for its experience in magazine production.

This first issue of 'Greenkeeper International' is a joint edition covering January and February and we shall revert to our normal monthly formula with the next issue in March.

These have been exceptionally busy times for us at head office, though the adrenaline generated in producing this first issue has given us all great enthusiasm and the urge to go forward with publishing what is - in a very real sense - BIGGA's 'own' magazine.

Please take note of your President's message, for your contributions will be vital to the magazine's success. We look forward to hearing your views of this first issue - be they on design, quality or content.
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Capacity • Independent PTO
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• Integral low noise cab
**France's inland revenue service to set golf tax?**

In France, the fact that golf is played mainly by wealthy A B socio-economic classes, has been quickly recognised by the ever-grabbing French equivalent of our own Inland Revenue.

There is a proposal before their Government to impose a tax on expenditure incurred in playing golf. The elements of the declared expenditure would be subscriptions, travel, equipment and 'nineteenth hole' imbibing. In fact, all outgoings in connection with participation in the game. Suspect declarations are anticipated, for with only some checkable, eg subscriptions, the rest will be on trust. The degree of trust demonstrated by the French tax collector is craftily contained in the proposal: "when a golfer's expense declaration is submitted, the department will double it..."

**United States go from course to course**

It's no secret that Americans are building new courses at a rate which leaves Europeans staggering.

Over 300 were actually opened for play in 1990, with close on 200 more nearing completion and a further 200 in an advanced planning stage. Despite gloomy world recession forecasts there seems to be no shortage of funds, especially for US resort course developments, where the cost of play is not nearly as high as many would have us believe.

It therefore comes as no surprise to learn that the USGA Green Section are launching a $2.8million research programme directed at coming to grips with escalating access to play problem, for if building programmes are ignored, shelved, or pitifully undercapitalised, the bubble here will surely burst.

**Fulford's poplars to be felled**

One of European golf's landmarks is set to disappear very soon. The line of 68 poplar trees, widely seen and always admired on TV whenever the Benson & Hedges International Open was held at the Fulford, York venue, are scheduled to be felled.

The Lombardy poplars, planted in 1935 and now some 120 feet high, are to the left of the first fairway, visible for miles around the course in Heslington, a village on York's outskirts.

Two of the trees snapped off near the base in high winds earlier this year, leading to a survey being carried out and advice given by an arboricultural expert. Each tree was drilled, with 21 being found sound, 28 in a primary state of disease and 19 totally rotten.

Consideration was given to having the trees polarded to a height of about 20 feet, but, after assimilating further expert information and advice, the Fulford Committee has decided to have them all felled, at a cost of around £6,000.

A Committee spokesman said, 'A lot of us find it very sad, but I am afraid it is inevitable. When poplars are planted it is as certain as night follows day that about sixty years later they get rotten and have to be removed.'

'We have yet to decide which type of trees will replace them, but poplars are out, as a future Committee in 60 years time would be faced with the same problem'.

**Where brown is just beautiful**

At the rather grandiose and somewhat pompously self-titled 'Golf Summit '90' held in California (where else?) recently, it seems that some of the authors of golf course generated wealth and opulence - the architects - are having second thoughts.

Citing the high costs of golf in Japan - up to £260 per round - and the average costs of construction of new courses in America at over £2.84million - not including such 'necessities' as clubhouse and amenities - the architect Perry Dye, son of notable Pete and Alice, has suggested that a move away from green is 'we must change turf care before we can change course.'

It's time for golfers to wake up,' says Dye. 'Brown is beautiful and always has been. The great Scottish links are as brown as it gets. We as golf leaders need to talk about our environment - something we haven't done in 20 years.'

'We should start in the direction of less water and less chemicals as soon as possible. Get to moving the ball over to better turf and play winter rules in lieu of what we can do to the environment to keep grass green. The change must come from within the industry.'

We are not sure of the GCSAA view to such comments, wise though they may be, for the American greenkeepers have long advocated as an official association policy: 'keep courses green.'
An appreciation of what is not always appreciated

East meets west on the course, but cold war remains for would-be Russian golfers

Those pukka Californian wheeler-dealers get everywhere, though I doubt if they could have imagined the vast amount of Soviet red-tape that needed trimming before the long overdue Moscow Golf & Country Club could become a reality.

No less than fifteen years in the making, after numerous false starts, the course is at last scheduled to open in 1992 - to foreigners only!

Charismatic Boris Yeltsin has lobbied long and hard for more sporting facilities in the capital and will no doubt be frustrated by the decision taken to ban play to local citizens, a miserly touch no doubt cooked-up by the Soviet Ministry of Foreign Affairs and the Californian company, American International Golf Resorts Inc., jointly concerned in the venture.

The 6,600 yard course, designed way back in the mid-70s by Robert Trent Jones II, is being financed by the Californian group and a consortium of investors and will include a huge hotel and a clutches of swanky villas.

The whisper in official circles is that some 75 per cent of western multi-national firms with Russian interests are putting up the cash, prompted perhaps by the distinct lack of recreational facilities available for foreigners in the capital.

Nevertheless, our sympathies lie with poor old Ivan, who must wait in vain for a chance to join the golfing jet-set.

North Scotland section members, still cherishing fond memories of a fine day of golf when they played their Autumn Outing at an immaculate Turriff Golf Club in mid September, were horrified to learn that on the morning of September 29th the River Deveron, which adjoins the Turriff course, rose and fell in a flash flood which at its height was 13" above normal, and at its highest level for 32 years.

At 5m the menacing roar of the river in full flood could be heard, even in the distant town of Turriff, heralding a trail of devastation that included the loss of 64 sheep from the fields up stream from the golf course.

Hay bales, trees, debris and livestock were flushed away in the ripstream as the river banks disappeared and within no time at all eight greens on the course were under water.

That the course was only closed for eight days speaks volumes for the fine work carried out by head greenkeeper George Geddes and his staff who, when faced with the mammoth task of clearing trees, branches, silt and a particularly nasty tide mark of straw and mud, came through with flying colours. A month later only the heavily silted 14th green - pictured above just after the disaster - remained unplayable.
BIGGA/ICI Premier Greenkeeper of the Year is announced

And so it came about, on the first Monday of December, seven tried and trusted men, all good and true, arrived at Aldwark Manor knowing that only one last test remained before one of their number would be awarded the coveted title of 'BIGGA / ICI PREMIER GREENKEEPER OF THE YEAR', together with an all expenses paid trip to attend the GCSAA Convention and Trade Show in Las Vegas in February 1991.

Since the early spring of 1990, following a sponsorship incentive from ICI Professional Products, BIGGA members had been competing for the title of the UK's Premier Greenkeeper.

The competition, which was in three stages, was well supported by greenkeepers from across the regions, with the basis of the award being submission of a paper of up to 3,000 words entitled 'A Year in the Life of My Golf Course'. A panel of experts drawn from BIGGA and ICI selected the seven greenkeepers who submitted the best papers; and arrangements were made to visit their courses to assess both course presentation and management. These assessment visits, undertaken by Jack McMillan and ICI's Patrick Goldsworthy were, to the greenkeepers surprise and some apprehension, undertaken without the greenkeeper in attendance.

Now to the final hurdle, a testing personal interview before a panel of experts comprising John Millen, Chairman, BIGGA Education Sub Committee, The Executive Director, Neil Thomas, Jack McMillan, Golf Course Consultant, and ICI's Professional Products Technical Manager, Patrick Goldsworthy. The interview stage was tense indeed, with each candidate being quizzed for over thirty minutes on a wide range of technical, commercial and general industry topics. The quality of candidates was so high that making the final selection was a near impossible task, for the marks from stages one and two were so close as to make the interview crucial to the result.

Ultimately the winner was selected and the runners-up decided, the judges final decision being based on the total marks achieved in each of the three stages. The final criteria in making judgement was for a candidate who offered a wide range of skills not only in the technical knowledge of greenkeeping and course management but also the skills of man management, leadership and team building. These qualities, coupled with abilities in long term planning, presentation and communication, together with a caring feeling for the environment, indicated that Anthony Davies, Head Greenkeeper at Prestbury Golf Club in Cheshire best fitted the criteria and he was declared the worthy winner.

Second place was awarded to Martin Jones, Course Manager at Tadmarton Heath Golf Club, with Kerran Daly, Course Manager at Salisbury and South Wiltshire Golf Club a close placed third.

The remaining candidates, Bernard Findlay, Portstewart Golf Club; Richard Barker, Kirby Muxloe Golf Club; Hamish Brough, Broomieknowle Golf Club and Nigel Potter, Saddleworth Golf Club were all awarded equal runner-up places.

All the awards were made following a presentation dinner at which BIGGA Chairman, Ivor Scoones, before the presentation ceremony said the award 'will come to represent an important aspect of BIGGA's educational programme.'

'It is clear that the high standards demonstrated at today's interviews are an indication of the improving quality of greenkeeper education. BIGGA's priority is the education and training of greenkeepers and much effort has been directed in the last three years towards improving standards, with the help of our approved colleges.'

In responding to Ivor Scoones' comments, Roger Mossop said, 'We strongly support the industry through sponsorship in the belief that a company should put back into industry a significant proportion of that which it takes out, particularly in the area of education and training.'

Roger Mossop presented Jack McMillan with the ICI Annual Award made to individuals who have made an outstanding contribution to the industry.

Richard Fry

Entry forms are now available for the 1991 ICI Premier Greenkeeper of the Year Award.
MEMBERSHIP ENQUIRY FORM

Please supply me with membership details and an application form

I am interested in:

- Full Greenkeeper Membership
- Company Membership
- Associate Membership

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<th>Surname</th>
<th>First Names</th>
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At Carnoustie they've chosen the blues for the greens: Ford compact tractors.

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RECOMMENDED MINIMUM SALARY/WAGES SCALE

The Association has updated its recommended minimum salary/wages scale, although actual figures remain the subject of negotiation between the Golf Club and Greenkeeping staff. The quoted rates apply from 1st January, 1991.

<table>
<thead>
<tr>
<th>Course Manager/Head Greenkeeper</th>
<th>Deputy Course Manager</th>
<th>Deputy Head Greenkeeper</th>
<th>First Assistant</th>
<th>Assistant Greenkeeper</th>
<th>Apprentice Greenkeeper</th>
<th>All Courses</th>
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<tr>
<td>18 HOLES</td>
<td>£16,490 p.a.</td>
<td>£17,980 p.a.</td>
<td>£11,875 p.a.</td>
<td>£12,940 p.a.</td>
<td>£14,480 p.a.</td>
<td>£197.10 p.w.</td>
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<tr>
<td>27 HOLES</td>
<td>£17,980 p.a.</td>
<td>£197.10 p.w.</td>
<td>£184.90 p.w.</td>
<td>£197.10 p.w.</td>
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<td>36 HOLES</td>
<td>£20,120 p.a.</td>
<td>£197.10 p.w.</td>
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Age 16/17 - £92.45 p.w.  
Age 18 - £115.60 p.w.  
Age 19 - £138.70 p.w.  
Age 20 - £161.80 p.w.  
Age 21+ - £184.90 p.w.  

N.B. Where appropriate these rates should be increased to reflect Regional variations up to a maximum of 24% in the South East Region.

The First Assistant is a post designed to recognise a third-in-charge where appropriate to the size of the Club. In cases where the First Assistant is the recognised Deputy, the appropriate Deputy Course Manager/Deputy Head Greenkeeper salary scale should apply.

N.B. Membership details are available from: The Executive Director, BIGGA, Aldwark Manor, Aldwark, Aince, York, North Yorkshire Y06 2NF. Telephone 03473 581/2, Fax 03473 8864.

MEMBERSHIP SUBSCRIPTIONS 1991

GREAT BRITAIN AND IRELAND

Course Manager/Head Greenkeeper...........................£40.00
Deputy Course Manager/Deputy Head Greenkeeper ............£37.00
First Assistant/Assistant Greenkeeper .......................£34.00

20 Years of Age or Under ..................................£22.00
Associate/Company............................................£40.00 (includes 1 year's subscription to 'Greenkeeper International')

N.B. Where appropriate these rates should be increased to reflect Regional variations up to a maximum of 24% in the South East Region.

All new members will receive an Association tie.

Corporate members additionally will receive an annual plaque in recognition of their support of BIGGA and the greenkeeping profession.

INTERNATIONAL

All Greenkeeping Staff........................................£48.00

* NB...The First Assistant is a post designed to recognise a third-in-charge where appropriate to the size of the Club. In cases where the First Assistant is the recognised Deputy, the Deputy Course Manager/Deputy Head Greenkeeper subscription rate should apply.
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Going green on the greens

For the second year running greenkeepers have had more than their share of problems, be they on modest nine-hole courses or those that stage international events. The second year of drought has put immeasurable pressure on the greenkeeper, who is still expected by the committee to maintain good quality playing areas.

Droughts, of course, present major problems and these past years have almost equalled those experienced in 1976. What the greenkeeper certainly does not need is problems with machinery, though economic pressures may be upon him to curtail costs. Expenditure on, say, a new greens machine will probably cost somewhere in excess of £1,200 and he may experience difficulty in getting authority for such a purchase.

Thus he is faced with the need to ensure his existing machinery is in tip-top order so that greens can be up to the standards expected by every player.

His problems do not end there, for the cost of maintaining professional equipment, which demand specialised skills, is heavy. Current rates are in the region of £25 an hour which, adding the cost of spares, may see a cost in excess of £200 for a complete overhaul or rebuild of an existing engine.

It is worthwhile studying the economics of such a move at this stage for two reasons:

1) In such a rebuild the existing ignition and fuel systems are unlikely to be replaced and in the case of the ignition system it could probably be the old style of contact breaker point magneto assembly, with its need for regular maintenance.

2) It is also likely the engine was designed to run on four star petrol and would be of a side-valve design, both of which contribute to higher running costs.

The greenkeeper should therefore seriously consider the advantages of fitting a modern O.H.V. engine which can offer a number of immediate benefits, not least one of a full manufacturers warranty covering the complete unit for probably a full 12 months or even longer. Let us therefore study the benefits of modern technology which the greenkeeper can find in any of the modern breed of general engines now offered at a price often less than the cost of a rebuild.

In a survey carried out some years ago over 80% of users demanded, as the most important feature, ease of starting. Modern design can provide this in several ways:

a) Automatic decompression – which means the most gentle pull on a recoil starter will bring the engine to life.

b) Transistorised ignition systems which produce a much fatter spark at the plug. Even if a plug is fouled through dubious fuel having been inadvertently put in, the engine will start without hesitation.

c) The electronic ignition is maintenance free, with no contact breaker points to check, adjust or replace. The high reliability factor of these new systems enables many manufacturers to offer extended guarantees against failure.

All leading engines manufacturers now produce O.H.V. design engines for greenkeeping machines. The O.H.V. engine generally uses anything up to 30% less fuel than a side valve unit, by virtue of a more efficient design. A simple calculation will show how much fuel is used in a year and the savings thus generated.

The Suzuki V120 3.8pm OHV unit, RRP £229+VAT, is typical of the breed of modern engines

Ken Poole studies the economics of replacement engines for greens machines and concludes that for reliability and peace of mind, investment could be well worthwhile.
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Quality doesn’t always cost the earth

CDC Group plc, Chapel Works, Waldingfield, Woodbridge, Suffolk IP12 4PT. Telephone: 0473 36791
Mr Lidwell (not his real name) is the green chairman at a busy course in the Midlands. That he is a serious 'thinking man' became immediately apparent when he first told us of his involvement and of how he had committed his thoughts, words and deeds to paper. In our quest for greater understanding and harmony between club employee and club official, we shall be publishing his papers as a series of articles. In this, his first, we learn of his introduction to committee life.

Golf club members offer to serve on committees for several reasons. Some aspire to be captain for the social standing that they believe goes with the job. Some see themselves as avenging angels who, by their very presence and power of argument, will be able to transform greens, tees and fairways to such an immaculate standard that county players will trill with delight and demand that it becomes the focal point of the county representative games. Fortunately, by far the greatest majority offer to serve because they want to put something back into the game. Whilst most members offer a silent 'thank you' to those who volunteer to give time to serve on the committee few could name or identify their representatives.

Some years ago I was invited to make up a four ball by three senior members of my own club. We drew for partners and fixed a small wager on the result. It was after eight holes, when my partners and I were three up, that the more senior of the other team made his first tactical move. He claimed I was playing far too well for my handicap and he would have to report me to the chairman of handicaps. My partner smiled and went on the offensive by advising our venerable opponent that this young fellow (age is relative) was the very chairman that he would be looking for.

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Later, after serving on both house and handicapping committees the captain asked me if I would accept the job of green chairman. My jaw dropped a little and I stared at him. Although an honour, it was a surprise. "Will I what, and why me?" These were the first questions that came to mind. He reminded me that I was a retired manager and had both skills and time in which to do the job. With a knowing look he went on to explain that the present chairman would not be standing again as he was required to devote more time with his wife and family. In my eagerness to please I failed to recognise the significance of this statement, although I did, many times, later on.

I prepared for my term of office by having a deep think about the two jobs. As I saw it, the green chairman was required to interpret the policies of the committee and pass them to the greenkeeper. He then would use his professional skills to put those interpretations into practice. I wondered how he saw it? In the hope of not proving to be a complete idiot, I read through my gardening books, including an old copy of 'Be Your Own Lawn Expert' by Dr D G Hessayan. While the reading helped I very soon realised that looking after a golf course was quite different from cultivating a small lawn at the back of a house.

Now I had to meet the greenkeeper. I had three main worries. Would we 'get on', would I be able to make a contribution to our discussions and how would the members view the results of my efforts.

I left a message with the secretary to arrange a meeting with the greenkeeper for 11.30 am on the first day after the AGM. Although we had never actually met we knew of each other. He of course had been pointed out to me many years ago and I felt sure that his 'grapevine' would have informed him of the new chairman of green.

We eyed each other at close quarters and shook hands, he called me Mister and I called him Jim. He smiled and offered me tea from his flask. 'I've watched you playing', he said, 'your stance is too closed which will force you to drop your right shoul...
The midrange maestros - the Iseki TU range offers you a choice of manual or hydrostatic drive, with models from 19-27 horsepower all designed for more productivity and performance, whatever the task.

Iseki TA Tractors mean big productivity on courses or in parks - three models from 33 to 48 HP, all with four wheel drive and Iseki shuttle drive gearboxes.

The original compact tractor - these 16-18 horsepower machines offer you real versatility with 2 or 4 wheel drive and front, mid or rear mounting points.

Iseki have a range of tractors to suit your needs. From 14-48 horsepower you'll find no more versatility, no more technical excellence, no better support and no better finance schemes. That's why Iseki are the driving force - because no one looks after your compact tractor needs more than Iseki.
It's in Carolina and nothing could be finer...

DAVID WHITE reports on the
spectacular venue for this year's Ryder Cup.

Exclusive Greenkeeper International
photographs by MIKE KLEMME

The OCEAN Course

The pessimists can depart, the folks who thought it shouldn't even be considered dismissed, for the new Ocean course at Kiawah Island, South Carolina is already earning huge praise, even before being officially opened for play.

In a game so ancient that it often questions its own origin, acclaim is something earned over time. Great players earn their acclaim over a career, and courses more often attain greatness over decades than overnight. Yet in a sport which so honours tradition this newcomer is earning praise from all who see it.

Designed by noted architect Pete Dye, The Ocean Course is carved from nearly three miles of oceanfront sand dunes along the extreme eastern end of Kiawah Island. All 18 holes, as well as the clubhouse and practice area, offer breathtaking views of the Atlantic Ocean, with ten holes playing directly along the beach.

Destiny appears to be holding a place amongst the best in the world for The Ocean Course, but in another area, far removed from the sports world and Ryder Cup ballyhoo, the infant course is already
In an age when environmental impact studies command such attention, The Ocean is earning acclaim from scientists and environmentalists for its sensitivity to nature.

Course designer Dye, who already has 10 courses ranked among the top 199 in either Golf Digest or Golf Magazine (U.S.) went to great lengths to ensure that The Ocean Course would blend with its oceanfront setting.

"It is behind-the-scenes efforts that have environmentalists singing Dye's praises".

The Ocean Course is the first golf course to be built with a complete internal drainage system. This is achieved through a series of drains and underground pipes, all water falling on tees, greens, fairways etc flowing back into the irrigation system. More than 14 miles of pipe have been installed under the course to recapture irrigation water and allow recycling.

"Even if the marsh is only three feet away", Dye explained, "the water drains back into the golf course, into these catch basins and down into a major series of pumps underneath the course".

Through these pumps, Dye is able to keep the water table at two feet above sea level, the same level as the fresh groundwater. This leaves a minimum of three feet of dry sand for filtering water that doesn't reach the fairway drains before this water reaches the groundwater table.

Although they figured on retrieving 50,000 to 100,000 gallons at most, they are picking up 300,000 gallons of fresh water each day, about 50% of the water needed to irrigate the whole course.

"When you figure the cost of water", Dye said, "in the long run the installation cost - between $150,000 and $200,000 (£78,000 - £104,000) amortizes itself... over a five year period you save that much in water costs".

"From the Coastal Council's point of view, this also solves the only thing they could object to, the fear that some of the pesticides or chemicals supplied are getting off into the marshes or surrounding areas. By monitoring this, and recycling this water all the time, we know exactly what we're doing as far as what we are putting on the golf course".

All of this was worked out as Dye was building The Ocean Course.

'I went to the Coastal Council and explained the theory of what we were doing and constantly kept them updated', he said. 'When they saw the first hole going in that way they could see something was going to happen here that would set a precedent for them with other courses in sensitive areas'.

Dye created a vast system of freshwater wetlands within the interior of the course. These lagoons have been planted with native grasses and are part of the irrigation system. The grasses help to filter the water before it is pumped back onto the golf course. And the sand that was excavated from these lagoons was used to elevate the fairways so that every hole offers a view of the ocean. Altogether Dye has created more than 22 acres of...
The 475-yard, par-four fourth hole could prove to be one of the most difficult on the front side, as both the drive and approach shot must carry the saltmarsh.

We have tried desperately not to create a maintenance monster on this course', he said. 'The fairways, tees and greens, we think, can be maintained with four different types of mowers'.

Dye said the sea grasses will be controlled with irrigation and spray, eliminating another area that would require maintenance on a conventional course.

These efforts have combined to make The Ocean Course at Kiawah a most unconventional course, one that will serve as a standard for all courses built in environmentally sensitive areas.
Education and training

National Education Conference promises a wealth of knowledge

There are few events that create more enthusiasm than the well established and much admired National Education Conference, traditionally held in March and now in its third year. But what, you may ask, is there in it for the greenkeeper? Take just one moment to look at the programme offered over three days, see just how many subjects there are that are important to you, ask yourself if you wouldn’t like to learn much more about this thriving industry – your profession – and I might guess your answer will have to be a resounding ‘yes’. That you will benefit enormously there is no doubt, for there is such a wealth of knowledge, experience and good old-fashioned know-how in which you may tap. This will come not only from the various lecture sessions but also at leisure during the many lunches, dinners, informal gatherings and the banquet.

Those who would care to make this event a pleasant break, one which wives will enjoy sharing, will find the City of York has much to commend it, with its famous Minster, elegant houses, wonderful museums, fine theatre and modern shops.

Success breeds success and this year, with yet more speakers and the promise of an even more significant learning experience, the cost to delegates has actually been reduced!

Thus you should make provision NOW for March 22nd – 24th, to attend the BIGGA National Education Conference at Langwith College, University of York.

A full programme and booking form may be obtained from Samantha Flint at BIGGA Headquarters, Telephone her on 03473 581 or fax 03473 8864.

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**FRIDAY 22 March**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>9.30 am</td>
<td>REGISTRATION in Langwith College</td>
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<tr>
<td>12.00 pm</td>
<td>LUNCH - Langwith College</td>
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<tr>
<td>1.20 pm</td>
<td>C H A I R M A N: Mr Gordon Child, Regional Administrator, BIGGA South West and South Wales Region</td>
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</table>
| 1.30 pm | **THE INFLUENCE OF SOILS AND MANAGEMENT PRACTICES ON ANAEROBIC ROOTZONES**
|         | Roy L Goss, Extension Agronomist-Emeritus, Washington State University |
| 2.10 pm | **SOIL SCIENCE AND THE GREENKEEPER’** Dr Richard Gibbs, Senior Lecturer, Lancashire College of Agriculture and Horticulture |
| 2.50 pm | **SANDS AND BUNKERS** David Stansfield, Agronomist to the R & A, Sports Turf Research Institute |
| 3.30 pm | **THE ROLE OF THE GOLF COURSE ARCHITECT** Donald Steel, International Golf Course Architect |
| 3.50 pm | **THE GOOD, THE BAD, AND THE UGLY OF GOLF COURSE MANAGEMENT** Larry W Gilhuly, Director Western Region, USGA Green Section |
| 5.10 pm | QUESTIONS TO THE PANEL                                               |
| 5.40 pm | Close Transport to Centre of York for Ladies
|         | - Depart College 1.15 pm                                            |
|         | - Return to College by 6.30 pm                                       |

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**SATURDAY 23 March**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>9.00 am</td>
<td><strong>THATCH’</strong> Dr Bill Adams, University College of Wales, Aberystwyth</td>
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<tr>
<td>9.40 am</td>
<td><strong>GOLF DEVELOPMENT AT THE GLENEAGLES HOTEL’</strong> James Kidd, Estates and Golf Courses Manager, The Gleneagles Hotel</td>
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<tr>
<td>10.20 am</td>
<td><strong>PREPARING GOLF FOR THE 21st CENTURY’</strong> George Shiel, Vice-Principal, Merritt Wood College of Agriculture and Horticulture</td>
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<tr>
<td>11.00 am</td>
<td>Coffee</td>
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<tr>
<td>11.20 am</td>
<td><strong>THE GOLF COURSE - FROM CONCEPTION TO COMPLETION’</strong> Mr G Hudson, Lindum Turf and associates.</td>
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**SUNDAY 24 March**

<table>
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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>9.20 am</td>
<td><strong>IT’S A MATTER OF QUALITY’</strong> Larry Gilhuly, Director, Western Region, USGA Green Section</td>
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<tr>
<td>10.00 am</td>
<td><strong>BENT GRASS IN THE UK’</strong> Ken Siems, Course Manager, East Sussex National</td>
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<tr>
<td>10.40 am</td>
<td>Coffee</td>
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<tr>
<td>11.00 am</td>
<td><strong>PURE SAND GREENS AND PENCROSS AT COLLINGTREE PARK’</strong> Peter Jones, Course Manager, Collingtree Park, Northampton</td>
</tr>
<tr>
<td>11.40 am</td>
<td><strong>ARE THERE ALTERNATIVES TO ANNUAL MEADOWWGRASS’</strong> Roy L Goss, Extension Agronomist-Emeritus, Washington State University</td>
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<tr>
<td>12.20 pm</td>
<td>QUESTIONS TO THE PANEL</td>
</tr>
<tr>
<td>12.50 pm</td>
<td><strong>SUMMING UP’</strong> Ivor Scoones, Chairman, BIGGA</td>
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<tr>
<td>1.00 pm</td>
<td>Lunch and Depart</td>
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</table>
|         | Transport to Centre of York for Ladies
|         | - Depart College 9.00 am                                            |
|         | - Return to College by 1.00 pm                                       |
### Sparsholt’s education partnership

Following the successful launch of the new National Diploma in Golf Course and Sportsground Management, Sparsholt College, Hampshire are seeking the co-operation of employers who can offer employment to students in their middle year industrial placement.

The new course is full-time extending over 3 years, with the middle year undertaken within industry as industrial placement. Course Tutor, Bob Young has outlined the following:

Students will be available from late June 1991 for a period of one year. During this year students are treated as employees. Pay is at the employers discretion but following national guidelines. The aim is to provide an opportunity for students to gain further experience within the golf and sports turf industry.

In addition the student will continue to undertake assignment studies and the employer will be asked to monitor a complete work experience programme.

For further details or confirmation of job availability, please contact: BOB YOUNG, SPARSHOLT COLLEGE, WINCHESTER, HANTS, SO21 2NF.

Tel: 096 272 441

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### Top Student of the Year

A meteoric career pattern has emerged as a result of Stuart McColm’s wisdom in taking the education path to career progression. Following spells as a greenkeeper at Inverness, Invergordon and, more recently, St Andrews, Stuart took time out to attend Oatridge Agricultural College (a G.T.C. approved college) on a full time course in Sportsturf Management. Whilst there he was voted Top Student of The Year.

Following this he was invited to attend the 2nd Jacobsen sponsored IOG Educational Seminar and was nominated the Most Outstanding Student by his fellow delegates.

Since leaving college Stuart has worked on a Jack Nicklaus construction site in Hertfordshire and has recently returned from Germany, having successfully completed the construction of an 18 hole course. He is now managing a new division of Tunnel Land Engineering, specialists in the upgrading and reconstruction of established golf courses.

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### Kubota continues support for BIGGA

Kubota have contributed £10,000 over the past two years to help BIGGA introduce residential management courses as part of their national drive to enhance the standing of greenkeepers.

The continued support by Kubota and the Greenkeeping Training Committee will ensure that the supply of professional greenkeepers satisfies the growing demand in the ever expanding golf industry.

Attendance on the BIGGA courses allows delegates to gain credits towards completion of the Master Greenkeeper’s Certificate.

David Golding, BIGGA’s Education Officer, commented, ‘It is only through formal training and qualifications that the standard of British and International greenkeeping will continue to improve’.

Conducting the seminars are experts from organisations such as the Sports Turf Research Institute, Time Manager International, The Health and Safety Executive and the Golf Course Wildlife Trust. Subjects covered include; the management of golf greens, tees, fairways and bunkers, together with computing for course managers, budgeting and accountancy, health and safety, conservation, pesticide management and turf diseases.

Kubota will continue to support BIGGA in their training programmes and Brian Hurtley, Vice President - Director, Kubota (UK) Ltd, said, ‘Head greenkeepers and course managers will have an increasingly important role to play in golf clubs and BIGGA programmes not only provide expert training but also allow delegates from the UK and Europe to exchange knowledge and ideas’.

### Proficient proficiency

At a time of rising costs, the Hertfordshire Proficiency Tests Committee have succeeded in maintaining stable prices for tests over the past three years.

Following recent restructuring, registration is now computerised and any previous delays now minimised, enabling them to undertake testing not only those in their own county but also applicants from neighbouring counties, up to a maximum of 50 miles radius. Pesticides and other category based tests are extremely cost competitive, with full details to be found in their current advertisement in this magazine.

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**GREENKEEPER INTERNATIONAL** January/February 1991 23
A programme of introductory and specialised SCOTVEC modules tailored to meet the needs of Greenkeepers, Groundsmen (and women) engaged in the establishment, care and maintenance of Sportsturf and artificial playing surfaces. The course technology. The modular programmes are approved by BIGGA and I.O.G.

Contact: Mr. Colin Urquhart, Langside College, 50 Prospecthill Road, Fife Regional Council — Education Committee

LANGSIDE COLLEGE
SPORTSTURF - F.T. 3 yr DR & evenings
A programme of introductory and specialised SCOTVEC modules tailored to meet the needs of Greenkeepers, Groundsmen (and women) engaged in the establishment, care and maintenance of Sportsturf and artificial playing surfaces. The course includes tractor operation, golf course construction, turf management and technology. The modular programmes are approved by BIGGA and I.O.G.

FIFE REGIONAL COUNCIL
Fife Regional Council — Education Committee
Elmwood College, Cuper, Fife

GREENKEEPERS! BOOK NOW!

★ TURF SEMINARS ★
SUNDAY 9th and 10th MARCH 1991
Choose from:
- Computers — Grass Identification — Conservation — COSHH

★ GREENKEEPING CONFERENCE ★
MONDAY 11th MARCH 1991
Contact: Carol Borthwick, Horticultural Division
Tel: (0334) 52781 Ext. 224
Fax: (0334) 56795

BIGGA APPROVED COLLEGES

SOUTH WEST AND WALES REGIONAL SEMINAR AT SOMERSET COLLEGE, CANNINGTON, NOVEMBER 1990
Somerset College was the venue for a gathering of 150 people in what proved to be an excellent day for our region and an encouragement to us all with students from both Cannington and Sparsholt College in attendance.

Speaking first was Nick Biggen, the Head of Horticulture at Cannington and a man who has been involved in education and training since 1968. A horticulturist trained at Writtle College, he has over the past 12 years developed a deep interest in turf culture. It was he who instigated greenkeeper training at Plumpton before moving to Somerset to bring the same to Cannington, (both being BIGGA approved centres of learning) and he was able to give us an insight into his greenkeeper training programme.

Next was Peter Wilson who, as Chairman of the I.G.U Golf Course Committee, gave a paper on The Way Forward. Peter, who started his golf at Ganton, was a scratch player for many years and a county player for both Yorkshire and Lancashire. His commitment to golf has been remarkable, with one of his main interests being handicapping. As a member of the BIGGA Board, the R & A Greenkeeping Panel and Chairman of the STRI there could be none better qualified to speak on The Way Forward and his most enlightening paper was well received.

Our third speaker was Dr Peter Hayes, who is Director of the STRI and a serving member of the USGA Turfgrass Research Committee, the Greenkeepers Training Committee and the NTC Committee. His long specialist experience in grass and golf course agronomy was much in evidence and his address on the research work carried out by the STRI was clear and precise, leaving no one in doubt that here was a man on top of his profession.

Following a lively question time being a lively lunch, we moved to the address given by Roy Brighton. As a key figure in Time Manager International, an organisation dedicated to encouraging people of all levels to make better use of their time and talents, Roy's paper - The Management of Time and People - was so good that no one could take their traditional afternoon nap! He is so full of enthusiasm and wit that you just have to sit up and take notice, and his accuracy is such that everyone at some time must have felt a twinge of conscience. Roy is one of very few who can make 45 minutes feel like no time at all.

Jack McMillan, our last speaker, needs no introduction. Having now joined the International Golfers Club following nine years as head greenkeeper at Sunningdale, Jack advises and helps young greenkeepers. With his wealth of experience gained whilst travelling the world, he was an ideal choice to talk on The Changing Face of Greenkeeping.

After question time the day ended with BIGGA Chairman Ivor Scoones giving special thanks to Somerset College, the traders who took part, myself in the chair and to SISIS, who sponsored the seminar.

GORDON CHILD

SOUTH WALES
December 12 saw the occasion of our AGM and Christmas Competition at Pyle and Kenfig Golf Club, held due to the generosity of the committee of the Club, to whom we offer our thanks.

The AGM was well attended, with retiring chairman, Roy Morgan, opening the meeting before handing over to Hugh Parry, the new chairman for 1991. Steven Evans was voted in as vice-chairman with Phil Swain remaining as administrator and taking over the finances from Paul Robinson. Paul held this job for over 14 years and in recognition of his great contribution he was presented with a tankard by grateful members.

How Morgan is now chairman of golf and the social sub committee, taking full control of the handicapping in the hope of cutting down the number of 'bandits'. Steven Evans is chairman of the education sub committee and will be responsible for organising lectures and seminars. He insists that they will be well attended, a view endorsed by this reporter!

We shall be holding a knock-out competition from April through September and details may be found in September 'Around The Green'. The closing date for entries is Feb 28th, with an entry fee of only £3.00. Let me know if you are interested.

The competition results were as follows: Winner of the Vitax Shield and decanter and glasses - donated by Allan Stow - L Hallett with 36 points. Second; M Stokes with 35, followed by T King (33), P Parry and H Morgan (33), J Morris and B Price (32), M Jones (31), P Long, T Thompson, and B Kercher all with 28. All players from second through twenty fifth received a bottle from the prize table and we are thankful for the prize donations received. Thank you to: Asgrow, Birds, Muirhead's, Rigby Taylor, Celtic Mowers, Maxwell Hart, Sta-Brite, Colin Murphy, Tacit, Euroturfcare and Wesington.

The only player to score two on a par three was L Walter and he received a prize of golf balls. Our funds were swelled by a successful raffle and our thanks go to Colin Murphy for developing such a grand organising job.

We would be the poorer without trade support and I extend sincere thanks to all who supported us throughout 1990 - long may you continue with your generosity.

Finally we were sorry to learn of Steve Elms departure from Tredgar Park and wish him well in the future. His departure heralds a change for yours truly, who is taking over at Tredgar Park - it's all swings and roundabouts in 1991!
There's nothing to beat a TORO Greensmaster 3000...

...so say 1000's of users throughout the world. The Greensmaster petrol or new diesel model with 'unique' towed cutting units ensures precise, uniform height of cut for quite exceptional appearance and, above all, superb playing characteristics.

Have a test run working under your conditions, get behind the wheel and see how effectively the Greensmaster literally 'flows' over the green cutting consistently at heights from 2.4mm to 17.5mm.

TORO Groomer Reels can be fitted to most Greensmasters.

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Station Road, St. Neots,
Huntingdon, Cambs PE19 1QH
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Fax: 0480 216167

in a class of their own
DX Tee Ground Mats
Aldwark Manor is the home of BIGGA... it is also the hotel golf course upon which Maxwell Hart have recently supplied SOKO DX Tee Ground mats for every single teeing area, this following year long trials of the DX mats on selected tees.

This most popular winter mat, for which Maxwell Hart are sole UK distributors, is available in two sizes - 90 mm x 1800 mm x 15 mm and 1250 mm x 2000 mm x 15 mm - and includes a design that incorporates the highest specification nylon artificial turf pile, integral rubber shock padding and tee peg holders and slots that are incorporated into the structure. The result is a mat that is spike resistant, offering excellent club head/turf pile interaction.

• Pictured above at Aldwark Manor, from left: Richard Gamble; Head Greenkeeper, Andrew Law; Maxwell Hart Northern Area Manager, David Golding; BIGGA Education Officer, John Taylor; Maxwell Hart's Northern Sales Manager, Geoff Platt; Golf Director, Aldwark Manor (with club in hand).

Westurf '91
The South West and South Wales Region of BIGGA have a knack of doing things with flair and style and the WESTURF Turfcare Trade Exhibition, now approaching its third successful year, is no exception. Born of a desire to actively promote a regional exhibition especially for those in the West and South West, the exhibition has established itself as one that rises to the big occasion whilst still retaining the friendly element of a county fair.

This year sees the prospect of WESTURF 91 being both bigger and better than ever before, with the promise of both local traders and many internationally known manufacturers in attendance.

Firmly established at the easy to reach location of Long Ashton Golf Club, Bristol, the event will again take place there on 1 May from 10.00 am to 5.00 pm.

Unlike so many exhibitions, WESTURF 91 is a show where costs are kept within very acceptable limits and it is to the credit of organiser Gordon Child that this year sees the inclusion of a stand manned by The Institute of Groundsmanship, for the bond between greenkeeper and groundsman is one to encourage and nurture.

There is still time for traders, local and international alike, to take space and a call to Gordon Child will bring full details. To coin a phrase of Gordon's, 'the trade wanted it, the public have delighted in it and the region thrives on it'. It should not be missed!

Call Gordon Child on 0803-844056 for more details.

Kawasaki brochure
Kawasaki advise us that a brochure, entitled, 'Recommended Replacement Engines' has recently been pro-
duced, listing a wide variety of commercial equipment and offering suggestions of suitable Kawasaki engines that will replace an original fitment.

Noisy equipment is not easily tolerated and a solution may be found by fitting a larger capacity engine that produces the necessary power but at lower operating speeds than the original. The Kawasaki FC Series of vertical shaft OHV engines are very compact and can therefore often replace smaller capacity units, giving the operator more torque for less noise - while in addition Kawasaki has paid careful attention to noise reduction.

Rufford's new range
Rufford Top Dress Supplies Ltd is a name totally familiar to BIGGA members, not only as suppliers of fine products but also as one of the Association's more generous sponsors.

We at Greenkeeper International are always pleased to publicise a success story and never happier than when broadcasting one that involves BIGGA sponsors, for we feel in some small way we share in their success. Thus we take pleasure in learning that following the opening earlier in 1990 of their new and now fully operational quarry at Warrington, Rufford quite justifiably boast a complete range of products that will meet the most diverse needs of any Golf Club.

The 'Number Two' range, produced at their Warrington quarry, comprises top dressings, soils and sands, all of which are now well established.

Recent scientific tests have confirmed the high quality of the materials at the Warrington Quarry and two championship courses have already used the Rufford 'Number Two' dressing.

The new quarry at Warrington is vastly larger than the Rufford Quarry, with enormous reserves of soil and sands and with the installation of modern processing plant is able to grade sand to produce an ideal product for all types of drainage, hollow tining, bunkers and also as an ideal product for dressing sand-only greens.

Commenting on the new range, Managing Director, Peter Jefford said 'with the development of a courser top dressing, Rufford 'Number Three', being available shortly; and with individual requirements becoming more specific, we can now satisfy most needs'.

This means that Rufford not only provides a full range but also a number of choices to suit customer budget and course stipulations. They guarantee a consistency of quality and service for a minimum of twenty years.

BIGGA/ICI 'plan' together
In a unique collaboration with BIGGA, ICI Professional Products have produced a free 1991 work planner for every member.

This colourful 30" x 20" wall planner illustrates the complete year at a glance and highlights all major BIGGA events. In addition, a valuable seasonal guide to the use of pesticides is featured together with details of products and their chemical active ingredients.

Double laminated, the work planner is both hard wearing and resistant to moisture, making it suitable for workshed or office use. The planner may be written upon and can be wiped clean if a dry felt tip is used.

Announcing its introduction, Neil Thomas; BIGGA's Executive Director stated: 'Once again ICI Professional Products have initiated a major new work aid for greenkeepers. This complete planner may be used as a work activity, appointment or holiday record aid, it highlights important dates and is an immediate source of product use information'.

This new and exciting ICI initiative comes on top of the ICI Premier Greenkeeper Award, the BIGGA Turf Management Exhibition ICI Seminar Programme sponsorship; and support for the BIGGA National Golf Tournament. There is no doubt that ICI Professional Products are not just taking from our industry but ploughing back a great deal of money, expertise and enthusiasm into important areas like education, training and industry development. 'They fully deserve our support in return'.
TALK TO RIGBY TAYLOR

Information for Professionals

FERTILIZERS

Whatever your turf requirements the team at Rigby Taylor will be pleased to discuss a Fertilizer that’s just right for the job. Through experience and careful control we’ve created a wide range of turfcare products – but deciding which one is best for you, needs careful selection if it’s going to provide maximum benefit.

This brief summary indicates which Rigby Taylor Fertilizer might be right for you but for full information and advice on your specific application and ground conditions please phone us free. It costs you nothing to talk directly to a member of our experienced team – all you have to do is dial 0800 424 919. If we can’t solve your problem over the phone we can arrange for a Technical Representative to call.

OUTFIELD GRANULARS

- Taylors Spring and Summer Cutfield 20.10.10
- Taylors Spring and Summer Sportsfield 10.15.10
- Taylors Spring and Summer Fairway 12.6.6
- Taylors Spring and Summer Sportsfield 9.7.7
- Taylors Spring and Summer 27.5% Nitrogen
- Taylors Spring and Summer 7.7.7
- Taylors Pre-Seeding Fertilizer 6.9.6
- Taylors Autumn and Winter Sportsfield 3.12.12

MA’SOT MICROFINE (Nitrogen derived from IBDU)

18.0.0 + 6% Fe A high Nitrogen Spring/Summer Fertilizer.
14.4.7 + 2% Mg Specially designed to provide balanced nutrition for turf.
12.0.6 + 2% Fe + 2% Mg Specially formulated for Spring/Summer use on fine turf, producing a growth response within seven days of application.
8.0.0 + 4% Fe + 2% Mg A Spring/Summer Fertilizer, with extra iron for green up and hardening of turf.
4.0.8 + 2% Fe + 2% Mg Formulated for use as an Autumn/Winter feed.

FINE TURF FERTILIZER

S/S2 14.2.7 +1% Mg An Organic fine turf Fertilizer, formulated with an analysis to comply with modern approach to the nutritional requirements of fine turf in the Spring and Summer.
A/W2 4.4.8 + 2% Fe An Organic fine turf Fertilizer, formulated with an analysis to comply with modern approach to the nutritional requirements of fine turf in the Autumn and Winter.

Mini-Gran S/S 11.5.5 A Spring/Summer Fertilizer designed for fine turf areas such as Golf and Bowling Greens.
Mini-Gran 3.10.5 An Autumn/Winter Fertilizer designed for fine turf areas such as Golf and Bowling Greens.
Supreme S/S 10.5.5 + 1.5% Fe A Spring/Summer Fertilizer.
Balanced for fine turf such as Golf Greens, Bowling Greens etc.
Supreme A/W 3.9.6 A carefully prepared Autumn dressing for fine turf.

Special Organic ‘N’ 8-0.5-0.5 + Fe Finest materials blended especially for Golf Greens and other fine turf areas.

Taylors Lawn Sand 5.4% N + 1.5% Fe Designed to promote growth and control moss. Contains ferrous sulphate.

Turf Hardener 1.7% N + 2.5% Fe + Mg + Trace Elements

This product is particularly suitable for Autumn but may be used during any Season of the year.

Read the label before you buy – use pesticides safely.

- Don’t forget!

- you can talk to us free on 0800 424 919
Buying a new sprayer

Let us SPRAY

JON ALLBUTT questions the unfortunate tag of ‘that nondescript piece of a small agricultural unit’ for sprayers – and suggests what to look out for when buying new.

It seems to me we never give the choice of sprayer the same amount of thought as, say, choosing a new mower or tractor. The sprayer is often part of a package, or a nondescript piece of a small agricultural unit. Sometimes we even opt for something that is second hand and usually cheap!

All that has changed now; for we need to know so much more about the task of spraying, perhaps not out of choice, but because new legislation has required us to be properly trained. Now we look at our old sprayer with new eyes; there it sits in the yard or shoved into a corner, the pump still attached and not cleaned out since it was last used. What was it used for? Can’t remember!

Now that we see the shortcomings of the unit we wonder how on earth we managed to get away with it. We now understand terms like calibration and spray quality, we can pick a nozzle to give the right output in litres per minute. In many cases the sprayer is, and always was, inadequate for the job and we appreciate the need for a unit that will meet the requirements of the Code of Practice. Our priority is to do the job quickly and accurately using a pressure and spray quality that will avoid drift problems - even if the wind speed is just a touch higher than it should be.

There are a number of sprayers available now with a range of different features. The problem is to choose the right features that will do the job within the budget.

SPECIFICATION FOR A NEW SPRAYER

1. A sprayer that will be compatible with a Cushman, tractor etc, and one that is easy to fit.
2. Controls that are positioned in such a way that you don’t rick your neck when checking pressures or switching on and off.
3. A balancing valve on each boom control to stop a pressure surge when you switch one or more boom sections off in a narrow space.
4. A pump capacity to give from 250 to 1,100 litres per hectare at 2 bar pressure.
5. Diaphragm check valves for drip free spraying.
6. Nozzle triplets fitted to the boom to save fiddling with nozzle changes each time you change products and water volumes.
7. A selection of nozzles to give the wide range of outputs listed in 4), with an easy to follow reference chart!
8. Made of rugged construction with fittings that don’t leak!
9. Bout markers to make an easy job of spraying irregular shapes accurately. Whoever heard of the perfect rectangular fairway or green?
10. A cage or basket to hold the pesticide safely and allow mixing away from the yard.
11. A fresh water bottle on the side for washing hands on site.
12. Available from a supplier who has a good, fast spares service.
13. Boom end guards to stop the inevitable damage to end nozzles on uneven ground.
Buying a new sprayer

The sprayer needs the flexibility to apply widely different water volumes and travel over some very uneven ground...

In amenity horticulture, and greenkeeping in particular, the sprayer needs the flexibility to apply widely different water volumes and travel over some very uneven ground. In making a decision you might use the specifications Page 29 as a guide, circulate it amongst suppliers and wait to see what they offer.

Allman have a range of sprayers to fit most vehicles, including the Cushman. They are often basic and need extras to make them flexible enough to cope with all turf situations. There are two ranges of nozzles available, high and low pressure, so be careful when ordering. Remember the objective is to have water volume output and spray quality specified on the label at the lowest pressure. Unless you specify, your sprayer is likely to be delivered with high pressure nozzles.

After many trials and discussions with greenkeepers, Hardi have just launched their new 300 Amenity Sprayer designed to fit the Cushman and incorporating all the above points. The interesting thing is that it is not an all-new sprayer with untried components, rather it used the best of their agricultural range put together to give an easy to operate machine of high quality. Hardi score a first by incorporating a bout marking system on a sprayer priced at under £2,000. Hardi offer several pump options, the most useful being the RP*** Roller Vane unit. This has several advantages in that it is easy to put on and off, simple to clean and delivers more than 1,000 litres per hectare at low/mid pressure. Ideal for spraying wormkiller, fungicides, wetters, fertilisers and soil conditioners.

For those sites without a Cushman, Hardi offer the BL300 to the same spec to fit any tractor. With minor modifications, it may also be used as a trailed or skid mounted unit.

Where larger sites suggest a bigger unit, look at the Hardi NK range with a larger tank and boom, together with the same controls.

Electronic controls are available as an optional extra, enabling these to be brought into the cab for easier use and greater safety.

At the most recent IOG Show, Ransomes were showing a new sprayer from the USA, designed to fit the Cushman. At that time it had not been completed for the UK market, having no operator handbook or details of pump output and nozzles. I expect these to all be well sorted out in time for the new spraying season.

The author is a technical consultant to the leisure and amenity industry. He is perhaps best known to greenkeepers as a technical trainer of those who apply pesticides, and in assisting with COSHH assessments.

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But more important than all that we are first and foremost Grinding enthusiasts and are happy to talk and give advice whatever your grinding requirements.

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To The Editor
I have been a greenkeeper for twelve years, a member of the Northern Section of BIGGA and a serving Section committee member for some time, and a keen attendee of the many winter lectures and year round golf competitions organised for the benefit of our section.

I write to express my disgust at the miserable attendance for the recent lecture on Controlled Release Fertilisers, given by a staff expert from Sierra UK Ltd at West Bowling Golf Club on November 7th.

Why am I disgusted? Because only three Committee members and nine greenkeepers deemed it worth attending!

Imagine the scene. We have an interesting subject, of importance to all who gain their living from greenkeeping, covered in an informative and entertaining way by an expert. He has travelled from Kent to address an audience that might have been a potential 200 or more. He is faced with a gathering of twelve.

The Northern Section has nearly 300 members and I think it is high time they took a positive interest in winter lecture subjects and not only in playing golf competitions.

Those who did not attend, for whatever lame reason, must feel that they have let their section down.

So come on you chaps, let's make these meetings worthwhile by lending support for a couple of hours. Quite apart from the benefits gained, they offer a grand opportunity to meet old friends and join them for a drink or two.

BRIAN D CARR
Head Greenkeeper, Howley Hall Golf Club

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To Neil Thomas
My name is Jonas Ogvall. I am twenty years old, and I live in Gothenburg, Sweden.

I have been working at Delsjo Golf Club for superintendent Jerker Tobiasson over the past three summers and have found this most interesting and enjoyable. I would like now to learn more about the care of a golf course and I think there is much to be learned by working outside Sweden.

I therefore wonder if you can help me to obtain a job at a golf course in Great Britain. I would be free to work from now until the end of April 1991.

I have played golf for some seven years and have a handicap of 3. Apart from playing a great deal I have recently become a member of the green committee.

JONAS OGVALL
Konservavagen 13, S-435 44 MOLNYCKE, Sweden

Is there a head greenkeeper or course manager that can help? - please make contact with Jonas directly.

---

To David Golding
I write to thank you and BIGGA headquarters staff for the In-house Management Course which I attended most recently.

The organisation was excellent and the course content was exceptional; from Nick Bisset's humorous look at communications to the very serious subject of health and safety by Graham Oddy, which gave us food for thought. The 'hands-on' experience Fred Robinson gave to us with computers provided more than a glimpse into the future of greenkeeping management, and leaving 8 computers with us for a whole week showed great trust!

All in all it was a very enjoyable time, if not a little exhausting. In fact, the only disappointment came in discovering that only 35 greenkeepers had registered for the Master Greenkeeper Certificate. Does this mean that only 35 greenkeepers in the country consider themselves under qualified?

I believe this certificate programme will become the pinnacle of education for greenkeepers in the future, but only with their utmost participation.

PETER GEE
Nevill Golf Club

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To David Golding
May I take this opportunity of thanking BIGGA for the splendid hospitality I received at Aldwark Manor during the finals of the BIGGA/ICI Premier Greenkeeper of the Year Award.

I would also like to express my thanks to ICI for sponsoring this event and long may it continue.

Finally, my sincere thanks are extended to the other finalists for their support - I feel we were all winners of this award.

ANTHONY DAVIES
Head Greenkeeper, Prestbury Golf Club
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So for strong healthy turf, spread the word - spread 'Longlife'.

'Longlife' Plus contains 2,4-D and dicamba.
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'Didin' is a trademark of SKW Trostberg AG
As most greenkeepers are aware, there are several disease problems of fine turf that may be damaging and disfiguring during the winter months. Two such diseases, namely anthracnose and fusarium patch, are particularly troublesome especially where annual meadow grass (Poa annua) forms significant proportion of the sward. In this article NEIL BALDWIN describes the cultural and environment conditions that favour outbreaks of these diseases, and gives details of the most effective prevention and control methods available for greenkeepers to follow.
Anthracross, caused by the fungus Colletotrichum graminicola, is seen throughout the winter as yellowing individual annual meadow grass plants in the sward. In cases of severe attack large patches of affected turf may develop which cause serious damage to the putting surface. At later stages of disease development small black pin-head sized structures may be seen at the base of the plant which is rotted (figure 1) and consequently diseased plants may be easily removed from the sward.

Fusarium patch disease (Microdochium nivale), a common and familiar sight to most UK greenkeepers in the winter months, is probably the most damaging and disfiguring disease in golf greens. Whilst the characteristic symptoms of orange-brown patches with paler centres caused by the disease are probably...
recognised by most greenkeepers, the appearance of fusarium patch in its early stages of development are not familiar to so many (Figure 2). However, it is essential that fusarium patch is identified in its earliest stages as it is then that control methods are the most effective.

The cultural and environmental conditions that favour the development of anthracnose and fusarium patch diseases are categorised in Table 1 below:

Thus, with an understanding that both diseases are favoured by the presence of Poa and surface wetness, it is not surprising that these diseases may occur concurrently during the winter months.

An old problem, and a new one

Whilst fusarium patch has been recorded for over 20 years on golf greens, anthracnose is a comparatively recent problem. As with most turf disease problems, the increasing incidence of anthracnose in recent times may be associated with the changes in golf course play and greenkeeping practice.

In particular, two factors have probably played a role in the development of anthracnose. The high numbers of rounds played on many of our courses has led to wear and compaction problems, which in turn has led to a stressed annual meadow grass sward. Current trends in greenkeeping practice advocate fertiliser programmes based on nitrogen only, together with minimal irrigation, which again stresses annual meadow grass.

Of course the aim of these practices is to stress the undesirable meadow grass so that bent (Agrostis spp) may thrive. However, a stressed Poa is highly prone to anthracnose disease. In situations where the Poa content of the sward is low, anthracnose may be thought of as beneficial as it selectively removes this plant species from the green. However, where the Poa forms a significant proportion of the sward (Figure 2) the disease may be considered a serious problem and thus require control.

Integrated Management of Anthracnose & Fusarium Patch

Integrated disease management is defined as the complimentary use of cultural, biological and chemical methods to maintain disease at an acceptable level. These are listed in Table 2. It is clear that the good turf management practices of Poa reduction, adequate fertiliser programmes and regular aeration, will have a beneficial effect on the turf to the detriment of disease development. As both anthracnose and fusarium patch are primarily diseases of Poa, biological control: ie choice of disease resistant varieties of grass, is not appropriate.

Due to the widespread occurrence of Poa in golf greens throughout the UK and the cold wet nature of British winters, in many instances both diseases may occur even if all attempts are made to prevent outbreaks by cultural methods. Thus the careful and judicious use of fungicides may be necessary to maintain greens to a good standard.

There is only one fungicide currently Approved for use against anthracnose, namely chlorothalonil (Daconil Turf Fungicide). For fusarium there are several Approved fungicides that may be considered. During the winter months it is the contact fungicides that give the best results as they have eradicative properties. Also systemic fungicides, (Table 3), if applied in the late autumn/early winter period, may inhibit the development of fusarium patch.

Further suggested reading: ‘Turfgrass Pests and Diseases’ (1990) 72pp including 32 colour photographs. £5.50 including postage from: STRI, Bingley, West Yorkshire, BD16 1AU.

Dr Neil Baldwin, the author of this article, is well known to our readers as the Sports Turf Research Institute’s Plant Pathologist.

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**Table 1**

<table>
<thead>
<tr>
<th>Conditions that favour disease outbreak</th>
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<tbody>
<tr>
<td>Anthracnose * Fusarium Patch</td>
</tr>
<tr>
<td>Predominance of annual meadow grass in sward.</td>
</tr>
<tr>
<td>Surface/wetness and poor sub-surface drainage.</td>
</tr>
<tr>
<td>Low fertility conditions</td>
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<tr>
<td>Both acid &amp; alkaline conditions</td>
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<tr>
<td>Compaction</td>
</tr>
<tr>
<td>High fertility conditions</td>
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<tr>
<td>Alkaline turf surface</td>
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<tr>
<td>Humid atmosphere conditions/dew</td>
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</tbody>
</table>

**Table 2**

<table>
<thead>
<tr>
<th>Integrated disease management</th>
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<tbody>
<tr>
<td><strong>Anthracnose</strong></td>
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<tr>
<td>Reduce/eliminate annual meadow grass in sward.</td>
</tr>
<tr>
<td>Maintain adequate fertility.</td>
</tr>
<tr>
<td>Ensure good surface/sub-surface drainage.</td>
</tr>
<tr>
<td><strong>Fusarium Patch</strong></td>
</tr>
<tr>
<td>Decrease compaction</td>
</tr>
<tr>
<td>- slitting/verticlrain</td>
</tr>
<tr>
<td><strong>Fungicides</strong></td>
</tr>
<tr>
<td>- chlorothalonil Approved</td>
</tr>
<tr>
<td>- do NOT apply materials</td>
</tr>
<tr>
<td>- containing lime.</td>
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<tr>
<td>- late season fertiliser</td>
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<tr>
<td>- applications or uneven/excessive top dressing</td>
</tr>
<tr>
<td><strong>Fungicides: see text</strong></td>
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</table>

**Table 3**

<table>
<thead>
<tr>
<th>Systemic Fungicides</th>
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<tbody>
<tr>
<td>benomyl (Bentazone)</td>
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<tr>
<td>carbendazim (Fisons)</td>
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<tr>
<td>thiabendazole (Tecro)</td>
</tr>
<tr>
<td>thiophanate (Mildothane)</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Contact Fungicides</th>
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</thead>
<tbody>
<tr>
<td>- chlorothalonil (Daconil Turf Fungicide)</td>
</tr>
<tr>
<td>- iprodione (Kovral)</td>
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<tr>
<td>- quinozinate (Mascot)</td>
</tr>
</tbody>
</table>

- Dr Neil Baldwin, the author of this article, is well known to our readers as the Sports Turf Research Institute’s Plant Pathologist.
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Drainage: a vital role to play

A n awareness of the increased demand for improved standards of sportsturf surfaces is one that rings especially true for golf courses. Players rightly expect better surfaces as standards of play improve. Increasingly these expectations grow higher and golfers want facilities year round, not just in the summer months. For financial reasons golf course owners also want to increase the intensity of use and extend the season and it is not surprising that much of the £100 million spent each year on maintaining Britain’s courses is devoted to the improvement of playing conditions.

Against this background drainage obviously has a vital role to play, for efficient drainage is an essential in maintaining a good playing surface.

Loss of use due to waterlogging or turf damage can result in a games backlog, dissatisfied players and even serious financial losses, whereas an efficient drainage scheme will eliminate waterlogging, reduce compaction, allow easier maintenance and more flexible management of valuable resources. This in turn will result in improved soil structure, fewer weeds, better sward and more economical use of fertilisers.

The Land Drainage Contractors Association (LDCA) recognises the need to promote and maintain high standards in drainage and regards as equally important that professional design and expert installation are essentials to successful drainage schemes.

LDCA SPORTSTURF DRAINAGE SECTION

The specialised nature and requirements of golf course drainage and the need to use experienced contractors with the necessary special equipment caused the LDCA to form a Sportsturf Drainage Section some 3 years ago. Membership of the Section identifies contractors who are experienced in sportsturf work, employ experienced staff, operate appropriate equipment and use BSI materials installed to the high standards laid down in the Association’s ‘Guidelines for Sportsturf Drainage Installation’.

These guidelines have been compiled by the LDCA to assist those involved in specifying, designing, installing and maintaining drainage works for amenity use.

Members of the Section undertake to supply and use materials to the recommended standards and to maintain the standards of workmanship contained in the Guidelines.

The LDCA is a trade association whose members include drainage contractors, manufacturers and suppliers of drainage machinery, pipes and other products.

In March the LDCA Sportsturf Drainage Section is holding a seminar at Ascot Racecourse to present aspects of design, machinery and materials for sportsturf drainage with accounts of costs and benefits from user case studies.

Attendance by invitation, together with details of

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The Bush Turfcare Drainage System may be introduced into any existing drainage scheme with minimal disruption, having the added advantage that after installation, secondary treatment is only necessary to perhaps remove surface compaction.

The Bush Turfcare Drainage System using the Monsanto Hydraway® Sportsdrain is a more effective drainage system than an 80mm diameter pipe. It performs more efficiently due to its higher effective drainage surface. It is installed into a 30mm slot trench (less than the size of a golf ball) and once installed affords a permanent permeable passage for unwanted water.

The Bush Turfcare Drainage System is a high quality system, installed with specialised equipment to a very high standard, tidily, quickly and at as much as 50% less in cost than a conventional pipework system.

The Bush Turfcare Drainage System is highly recommended for use in the following situations: Golf Courses, All Ball-Game Pitches, Race Courses, Airfields, Recreational & Grass Landscaped Areas. In fact if it is worth draining it is worth installing a Bush Turfcare Drainage System.
the Association, may be obtained from: Land Drainage Contractors Association, N.A.C, Stoneleigh, Kenilworth, Warwicks. CV8 2LG. Tel: 0203 - 696683.

WELBOURNE SPORTSGROUNDS LTD
As members of both BALI and LDCA, Welbourne are well equipped to undertake all forms of design, construction, drainage and maintenance associated with golf courses. Their team have the latest technology, together with expertise gathered over some 25 years, to handle any drainage problem associated with poor soil or compaction and can design and install systems to the very highest standards with minimum disruption to existing playing surfaces.

M J ABBOTT LTD
Michael Abbott, himself an expert in this field with over 20 years experience, has gathered a team of trained personnel to undertake planning, design and construction of sportsturf drainage schemes, together with experts in the use of laser-controlled Hoes trenching machines. Their wide-ranging services include drainage installation at construction stage or in existing playing conditions, utilising trenchers with automatic collection of spoils. Sand grooving, gravel moling and verti-draining are also offered.

PIPEWISE
Pipewise has given specialist service in plastics for 10 years, supplying the construction industry with systems for water supply and drainage. Their comprehensive range lends itself as an indispensable service to both existing golf courses for improvements and for new course construction. Getting water to the course is seen as only half the problem, with quick, effective drainage of surplus water from greens and fairways also essential. Pipewise are major bulk stockists of plastic drainage systems widely used in course construction, and cover the whole of Southern England, from the Midlands down, from depots in Bristol and Dorchester.

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Recognising that the construction of good greens forms a major portion of the cost of building a course, The 'Cambridge' green is a carefully calculated scientific design utilising specialised equipment to create high quality greens at less than half the price of orthodox methods. Hydraulic Continuity is a key factor in the Cambridge technique. The sand based surface is linked to a sand matrix which in turn is part of the drainage system. Although the surface is sand based, the deeper root zone is essentially soil, giving a putting surface with the best of both worlds - good playing character and strong, healthy, easily maintained turf.
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Founded in 1970, Medhurst’s make a speciality of sportsturf drainage for golf courses, carrying out works for local authorities and the private sector. Their Plant Hire division has both large and mini excavators available and they are distributors of Auto Plas and Aqualand drainage products. Most recently they completed the drainage and earth moving work at the new nine hole course situated on 50 acres at Addlestone, nr Chertsey, for Activity Enterprises; and anticipate further activity on land drainage for two new courses proposed in the Surrey area. As members of LDCA they proudly claim a complete service covering not only golf course work but also the installation of septic tanks, ground works, roads, sewers and all-weather horse arenas.

MEIKLEM LAND DRAINAGE

Meiklem have a proven record in specialist drainage spanning more than 24 years. M.D., John Meiklem, is aware of no simple answer to drainage problems and recognises that each project needs individual assessment if the most efficient and cost-effective solution is to be implemented. Recently, Meiklem’s acted as main contractors for improvements on the New and Jubilee Courses at St Andrews.

A drainage system designed to lower the water table by some 2 metres was installed, with a 5 metre deep pump chamber, 2 submersible pumps and over 2000 metres of graded piping to carry over 3/4 million gallons of water per day to an existing reservoir. This water may then be used for irrigation or pumped to sea through existing pipes and outfall. The work was done with both courses still in play.

The Company is also acting as main contractor for the under drainage scheme on the new St Andrews Strathyrum course, where 90 acres of the course is networked with a deep drainage system through a sand base 2 metres thick. The piping used had to be filter wrapped to prevent sand blockage.

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Praise for ‘the man with a mission’

The making of golf history has ensured that the name of Park will forever be remembered, Old Willie Park being the first ever winner of The Open Championship in 1860, and again in 1863, 1866 and 1875. His son Willie Park Jnr. was no mean golfer either, winning The Open in 1887 and 1889 before becoming the first in a long and distinguished line of golf course architects, producing such masterpieces as Sunningdale Old, West Hill and Huntercombe.

Eddie Park, pictured, was not, to my knowledge, descended from Old Willie. There is no doubt however that he is deserving of equal praise and recognition for his great contribution to a lesser known and far less feted part of the golf scene – the good management of the golf course.

There can be few greenkeepers who have not heard the name Eddie Park, though perhaps younger ones will be less aware of the huge service this man did for our industry and for the wisdom he expounded throughout his lifetime.

Eddie, who died just under two years ago, was considered by all who knew him as one of the country’s leading experts on greenkeeping and course maintenance, an expertise culled from enthusiasm gained over a lifetime of golfing and gained, not as one might imagine through greenkeeping or as an agronomist, but as one for whom course maintenance was a hobby.

Eddie Park was actually a dental surgeon, though early exposure at St Bees school in Cumberland gave him an everlasting passion for golf and his first chance to become actively involved when, at the age of 16, he looked after the maintenance of the school’s small course.

The bug had hit, and thereafter Eddie Park became a man with a mission, the betterment of golf conditions in Great Britain. A talented student and a compulsive reader, his knowledge grew and his eloquent words widely respected, for he was no paper tiger, rather the quintessential practitioner.

Throughout his life he was a member of four clubs, latterly associated with Lindrick Golf Club, of which he was Captain in 1975. He was also a prolific writer on the subject of course maintenance and improvement and it is for this reason we fete him here.

Much, indeed most, of Eddie’s writing was in the form of magazine articles and he was widely published in Golf Monthly and Greenkeeper. Many greenkeepers were wise enough to keep copies of his articles, together with the equally important writings of his son Nicholas, and to this day will often produce a

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Turf Mark®, ... the professional’s way to apply liquid pesticides and fertilisers. Turf Mark shows you exactly where you’ve sprayed. The distinctive blue colour helps to eliminate skips and overlaps, saving you time and money.

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For more information on Turf Mark WSP or other Becker-Underwood products, ring your distributor, Maxwell Hart Ltd at Wokingham on (0734) 785655 or at Warrington on (0925) 825501.

TO RECEIVE YOUR FREE SAMPLE OF TURF MARK WSP PLEASE COMPLETE THE MAXWELL HART REPLY PAID CARD FACING PAGE 56 IN THIS MAGAZINE
A new book specifically aimed at the greenkeeper is one that will quickly become a standard work of reference for the greenkeeping profession, especially those set on a turfgrass management course at a BIGGA approved college. That it might be obligatory reading for EVERY club member who serves on a green committee, will, I believe, be the devout New Year wish of every thinking greenkeeper. If committee men choose to ignore it, and miss the fundamental importance of good husbandry that it preaches, it will be at their peril.

**Pests and diseases handbook is a must**

A new book specifically aimed at the greenkeeper is always something that we applaud, and applause is indeed worthy for the concise little paperback most recently issued by the STRI and written by an old favourite of ours, Plant Pathologist Dr Neil Baldwin. As golf expands even more rapidly the control of pests and diseases plays an ever more important role in fine turfgrass care and we are well aware that demand for guidance is continuous. Thus the writer has concentrated his information specifically at the pests and diseases which occur on cool season turfgrasses – essentially the UK and western Europe – and applies his practical skill in identifying both symptoms and treatment of the bacteria and viruses that are able to cause such serious damage to turf in the UK.

The range of pest problems, considered minor when compared to some that are experienced in areas other than western Europe, are largely confined to exploring and seeking solutions to earthworm casting and a few insect species such as leatherjackets, millipedes, frit fly and wire-worms. Essentially a practical guide, this is no dry – as dust tome for the scientist or boffin, rather an informative and well illustrated practitioner’s manual which the greenkeeper will turn to again and again for guidance when identifying a problem, or for simple reassurance that he is on the correct path to eradication.

This is the third completely revised edition of the booklet, much expanded to incorporate new information gleaned from recent research.

**TURFGRASS PESTS AND DISEASES** – By Dr Neil Baldwin (72 pages including 32 colour photographs) is published by The Sports Turf Research Institute, BINGLEY, West Yorkshire, BD16 1AU. £5.50 post inclusive.

**How to settle those 19th hole arguments**

The first World Scientific Congress of Golf was held in July at St Andrews, bringing together many of the great practitioners and researchers in an attempt to bridge the gap from both directions. It has become clear that scientific information about golf is increasing, whilst at the same time players and their coaches (and indeed golf greenkeepers) are being confronted with problems where science can help to provide a solution.

I am not a scientist, nor do I have a particularly scientific background, but I found the technical matter and corresponding data gathered within the articles published of huge interest. Quite apart from the sheer fun of discovery there is pleasure in actually knowing something; rather than just thinking you know, and a few hours spent in study will arm the reader with material to settle any nineteenth hole argument (and indeed many of the clap-trap claims made by equipment manufacturers).

Sub-divided into four sections: Human Factors; Performance Statistics; Technology and Equipment; and Golf Course Management and the Environment, the whole book is a mind blowing catalogue of new found truths, conflicting viewpoints, dispelled myths and damned lies exposed.

**SCIENCE AND GOLF** – edited by A J Cochran, (hardback 374 pages) is the proceedings of the First World Congress of Golf Published by E & F. N. Spon. £29.50.

**History brought to life at Royal Liverpool**

The Royal Liverpool Golf Club has been the venue for The Open and other major championships from its infancy. It is steeped in history and has produced many distinguished players. Many truly great writers have written enthusiastically about the links. This is the life of those links and the golfers who have played over it.

The early history is brought to life by Bernard Darwin and Guy Farrar, with fascinating Open accounts woven by the winners themselves. These include Harold Hilton, Sandy Herd, J H Taylor, Walter Hagen, Bobby Jones and Fred Daly.

But this anthology is not just about great events. Many truly great writers have written enthusiastically about the links. This is the life of those links and the golfers who have played over it.

**GOLF AT HOYLAKE** – edited by John Behrand and John Graham, (hardback 171 pages) is published by Grant Books, Victoria Square, Droitwich, WR9 8DE at £22 post inclusive.
“As an all-purpose truck the Pro-Hauler is absolutely ideal, it finds new jobs for itself every day”

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Head Greenkeeper
NORTHAMPTON GOLF CLUB

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DEACON AND CORNWALL
Over 60 members attended our AGM, held on November 13 at the Pingle Glen Leisure Complex near Exeter. First on our agenda was the Foursomes Competition for the TORO Trophy, with prices kindly donated by Greenlands SW Ltd.

Results were:
1st: J Breyley (Churston) and N Pring (Padbrook) - 39 points; 2nd: K Broad (Fingle Glen) and M Pike (Ellordleigh) - 37 points; 3rd: G Child (Churston) and P Newcombe (East Devon) - 36 points.

Our thanks to Greenlands SW Ltd for the donation of prizes and to Mr Breading and his staff for providing such fine food and service. A special thanks must go to Bill Pike and his green staff for presenting the course in such excellent condition and to Fingle Glen for allowing the section to use their superb facilities.

AGM Details:
1) Section accounts: These were circulated and their acceptance proposed by J Mitchell, seconded by B Pike. 2) Election of Regional Officer: With only one name put forward, Jeff Mills was elected. 3) Venues and Speakers: Members were informed of the intended venues for 1991-92 and were asked to propose venues for the season of 1992-93. Speakers were discussed for next season's meetings and the possibility of raising trade sponsorship to help cover some of the speakers' costs.

The season for Devon and Cornwall runs from October through April and our programme for 1991-92 is as follows: October: Carlyon Bay; November: Bude - AGM; December: Okehampton; February: St Enedoc - M Jones; March: Bigbury; April: Launceston - Guest Day.

Looking ahead to 1992-93 our programme is: October: Warren; November: China Fleet - AGM; December: Okehampton; February: Peranporch; March: Woodbury; April: Launceston - Guest Day.

Concluding our business, the Chairman read aloud a letter from our Regional Administrator. This, backed by the R & A relates to training and pay of greenkeepers, thus ensuring the sound future of golf courses in this country. If anyone is experiencing trouble with their Club regarding this matter, the letter can be sent to their Club by contacting Gordon Child, Archways, Churston Ferrers, Nr Brixham, Devon. Tel: 0803 640456.

Our Christmas meeting, returning again to Okehampton Golf Club, was attended by 85 members and guests, with members playing a Greensome Stableford for the P J Flegg Trophy. We are grateful to the Club for use of their facilities and to Richard Wisdom and his staff for presenting the course in excellent condition. Winners were N Pring and R Hall, scoring a brilliant 25 on the back nine. Following a superb Christmas Lunch Patrick Flegg of P J Flegg Ltd presented the prizes to: 1) N Pring (Padbrook) and R Hall (Padbrook) 48 points; 2) D Parr (Truro) and D Wrigley (Exmouth) 40 points.

Our Christmas day bought out 30 or more members to our annual Christmas golf day at South Leeds Golf Club. Nearly everyone was a prizewinner of some sort and I hope everyone enjoyed the day. After a hearty meal many people stayed on for the section AGM, during which some new faces were voted on to the Committee. I hope the newcomers will gain wisdom from the old hands still serving and put their knowledge to good use.

Our programme for 1991-92 is as follows: October: Carlyon Bay; November: Bude - AGM; December: Okehampton; February: St Enedoc - M Jones; March: Bigbury; April: Launceston - Guest Day.

Our entertainment was the very funny David Jade, who was presented with an Association tie. Thanks to generous donations, we held two Christmas raffles, the first being for the Aver Crop and Monro Hampers. These were presented by Rod Feltham and Mike Berriman to winners N Stonelake and R Hall.

NORTHERN
A glorious day brought out 30 or more members to our annual Christmas golf day at South Leeds Golf Club. Nearly everyone was a prizewinner of some sort and I hope everyone enjoyed the day. After a hearty meal many people stayed on for the section AGM, during which some new faces were voted on to the Committee. I hope the newcomers will gain wisdom from the old hands still serving and put their knowledge to good use.

Some dates to note are:
Wednesday, February 13th, 2.00 pm at West Bowling Golf Club, Bradford. Eddie Stead will talk to us on four wheel drive tractors. A provisional booking for March 20th is that of EFG Halifax and Iseki, both of whom will talk to us on their product ranges. I do sincerely hope to see more faces this year and also look forward to seeing many of our members at BTME in Harrogate during the week commencing January 21.
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From Page 50

EAST MIDLANDS

Playing our old rivals the Midlands Section, at Whittington Barracks Golf Club in October for the Rigby Taylor Challenge Shield, our plan of action was to play competitively and fairly. The Midlands had other ideas!

PLAYERS: No matter how good a course in excellent condition (well done Trevor and his staff) but they stuffled us so full of food at lunch that we were obliged to let them play on for the remainder of the day. As we were not going to Rigby Taylor for a marvellous time, together with gratitude to the steward and stewardess for superb service and dinner care.

Director of Golf, Sir Richard Moxcey Golf Club was the venue for the Breakwells Tournament at Kirby Muxloe. This is one competition when we all had a good time, with the weather exceptionally good going to the course in October. It was so full of food at lunch that we were obliged to let them play on for the remainder of the day. As we were not going to Rigby Taylor for a marvellous time, together with gratitude to the steward and stewardess for superb service and dinner care.

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It's only natural that when Fisons develop a truly organic outfield turf fertilizer, it naturally combines the reliability and consistency you need with the performance you demand. The new environmentally-friendly Sportsmaster Organic does just that, perfectly.

There's no muck and mystery. This fertilizer has been designed to be safe for the grass and safe for you. The guaranteed slow release action can last twice as long as conventional fertilizers. So less applications are needed and that means less work for you. And, if it doesn't rain, it won't scorch the grass – it's that safe.

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Sportsmaster is a Trademark of Fisons plc.
Traditional greenkeeping practices have changed, or to say the least conditions prevailing on golf courses are changing, and this is encouraging greenkeepers to look toward greater scientific application; including the types of fertilisers applied.

Slow release nitrogen fertilisers have been around for quite a while – for example Ureformaldehyde and Dicyandiamide have been around since the 1920’s and organic products with some slow release properties for even longer. So the products themselves are not new, though the way they are used and the results now expected from them most certainly are.

Basic plant growth conditions need temperature and moisture. Moisture we can control to some extent with irrigation and drainage; but temperature is out of mortal control. This means we have to select products that will react to as many growth stimulants as possible.

The organic products, D.C.D. (ICI’s Didin), Ureformaldehyde (Azulon), and the coated products (Sierra’s Osmacote) rely on temperature to release the nitrogen to the plant. BASF’s Isodur and Crotadur (IBDU and CDU) need both temperature and moisture to release the nitrogen to the plant. Thus it is vital the greenkeeper makes the correct decision in choosing which of the many products to use by deciding which factors are important to him and his course.

The principle of slow release nitrogen has always been to limit the availability of nitrogen for leaching, because this is costly, environmentally undesirable, and just plain inefficient. At certain times of the year shortage of water can cause scorch problems, and this also has to be avoided. Irrigation can help but what if you have none? Most golf fairways have no irrigation so winter fertilisation becomes a necessity.

It is in these out of the normal uses that slow release fertilisers excel, but as already indicated the method of release varies from product to product and care needs to be taken in selecting the right one.

As intelligent men – ask for advice from the manufacturers. All companies have a desire to sell their products with an ultimate aim to secure long-term business. It is in their interests to ensure the customer gets the results he expects.

The slow release manufacturers have all been around for a long time with products that are both cost and application effective. Theirs is no double-glazing type industry, for it is the long-term interests of the market and the demands made upon it that is uppermost in their minds. Every golf course is different, often with big variances across individual courses and when the changes in climate – from year to year, or even day to day – are taken into account there is a place for virtually every product somewhere.

By asking for help from the manufacturer, the greenkeeper can make a measured decision which ultimately benefits everyone, even the golfer, providing he gives the greenkeeper a chance!

Plants need nutrients – thirteen in total – plus light, warmth, water and air if they are to survive. Slow release nitrogen can help supply one of the major nutrients efficiently and economically but care must be taken to ensure the correct product is used – make certain you get it right.

JOHN HINTON
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100% controlled release nitrogen assures even growth through the whole season. No flush of growth in spring, unaffected by rainfall or irrigation. One application can be safely made at any time of year. No leaching of nitrates means an environmentally friendly product.

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Royal Dornoch Golf Club
Golf Road
Dornoch
Sutherland IV25 3LW

Kingsthorpe Golf Club
require a
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Applicants must be fully experienced and have a good knowledge of the maintenance of course equipment. Ability to lead and motivate assistant staff is essential.
No accommodation available.
Apply in writing to:
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Kingsthorpe Golf Club
Kingsley Road
Northampton NN2 7BU

ST. NEOTS GOLF CLUB CAMBRIDGESHIRE
requires a
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Applicants must be fully experienced in all aspects of greenkeeping and turf culture. A practical knowledge of the use and maintenance of modern turf machinery and the ability to control and motivate staff are essential.

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You should be qualified and have experience in modern course
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GREENKEEPER
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GREENKEEPER
Good terms and conditions. Local persons preferred.
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96 GREENKEEPER INTERNATIONAL January/February 1991
Notice to Members

Annual General Meeting

This will be held on Thursday 25 April 1991 at 2.30pm in the Royal York Hotel, York, immediately adjacent to the Railway Station.

Neil Thomas, Executive Director

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Education Convener for Scotland; was next on stage to tell us how greenkeeper education began in Scotland and of its progression to the present time. He then revealed some of the content of educational courses today and of the help given by various bodies like the R & A and the Greenkeepers Training Committee.

The penultimate speaker, Paul Campbell, manager of Greens of Scotland and formerly of the Scottish Agricultural College, may well have sent a few of those present scurrying back to their club committees to report of the implications of COSHH (Control of Substances Hazardous to Health) and of the effects it will bring about now that legislation is being tightened.

To complete the line-up we had Peter Smith, who is a playing professional on the full European Tour, speaking of the preparation that goes on behind the scenes before a Tour event and of the conditions required by Tour officials. These he listed as being firm tees to allow a stable stance, closely cut fairways to aid backswings, and firm but fast greens that will reward a well-struck shot. He then mentioned his least and most favourite courses from a playing view encountered on the 1990 Tour.

Our section is most grateful for the help received from Scottish Agricultural Colleges and Paul Campbell in the staging of this event and to the trade for giving us such tremendous support.

Although the turnout of 150 was superb - including an encouraging 40 non greenkeepers - it should be noted that 250 greenkeepers were informed, together with over 100 Golf Clubs. Thus with many such Clubs not represented, either by greenkeeper or official, one must look for reasons. Was the £10 cost too much? Do some people feel they already know it all or is it just a case of apathy? One would be forgiven for thinking otherwise, especially when considering the amount of complaints greenkeepers receive, yet only two golf players; a couple from Bantery Golf Club, took the individual initiative to attend.

The hope is that the event will be repeated in two years or perhaps sooner. Was the £10 cost too much? Do some people feel they already know it all or is it just a case of apathy? One would be forgiven for thinking otherwise, especially when considering the amount of complaints greenkeepers receive, yet only two golf players, a couple from Bantery Golf Club, took the individual initiative to attend.

The elected 1991 Committee is:

President: John Moyce; Vice President: Bob Chesham; Chairman: Sam Sylvester; Vice Chairman: Steve Freestone; Secretary/Treasurer: Mick Peters; Scribe: Mick Lathrope; Competition Liaison/Handicap Secretary: Steve Freestone.

Our thanks go to Mick Clarke for his contribution on Committee over the years and our good wishes to Steve Freestone, who has filled his place and will, I'm sure, do a good job.

I understand that our dear friend Steiric Goddard popped in to say 'hello' and I was sorry to have missed him. Perhaps next year...

DIARY DATES 1991:

Channels 16th April (ISEKI Qualifier) Cromer 19th June; Stonemarket 15th August; Gog magog 8th October.

I said there were two things, so on to our Turkey Trot, held at Aldeburgh on December 6th. A super day; dry, sunny but not too hot. The course was fantastic and our thanks to Petter and the boys for that. Pin positions were good too, though for me they might have been better in the rough - well, that's where I was!

Prizes went to Pete Howard (35 points to win a turkey), 2nd A Carter (25 points on countback) and guest Mr Brown on 32 points. Prizes were presented by the Aldeburgh Captain Sir Dick Franks and donated by CMW, Sisis, Collier and Rushbrooks. Our thanks to you all, especially Aldeburgh, for a great day. Hope we can come again.

MICK LATHROPE
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