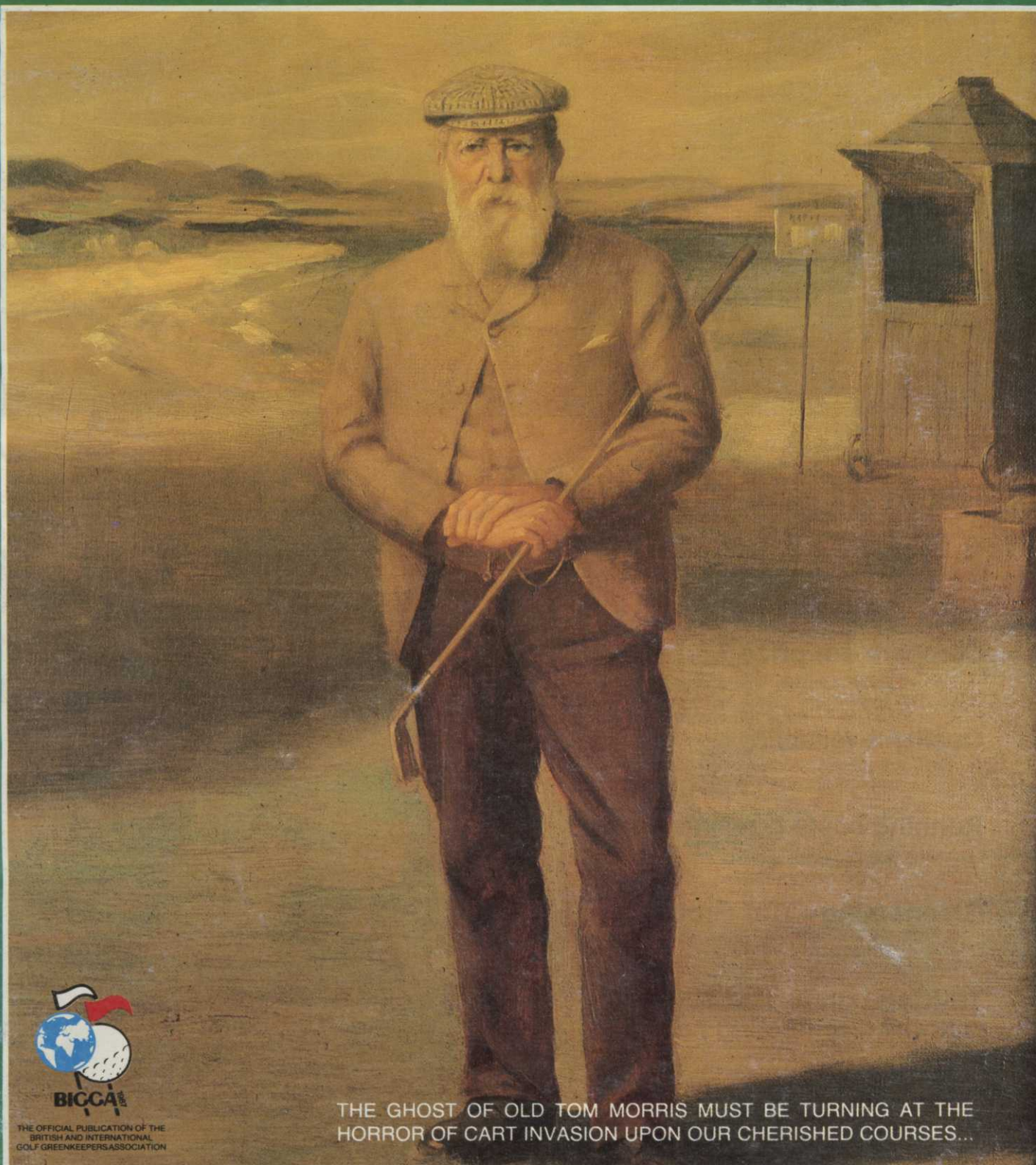


AUGUST 1989

GREENKEEPING

M A N A G E M E N T



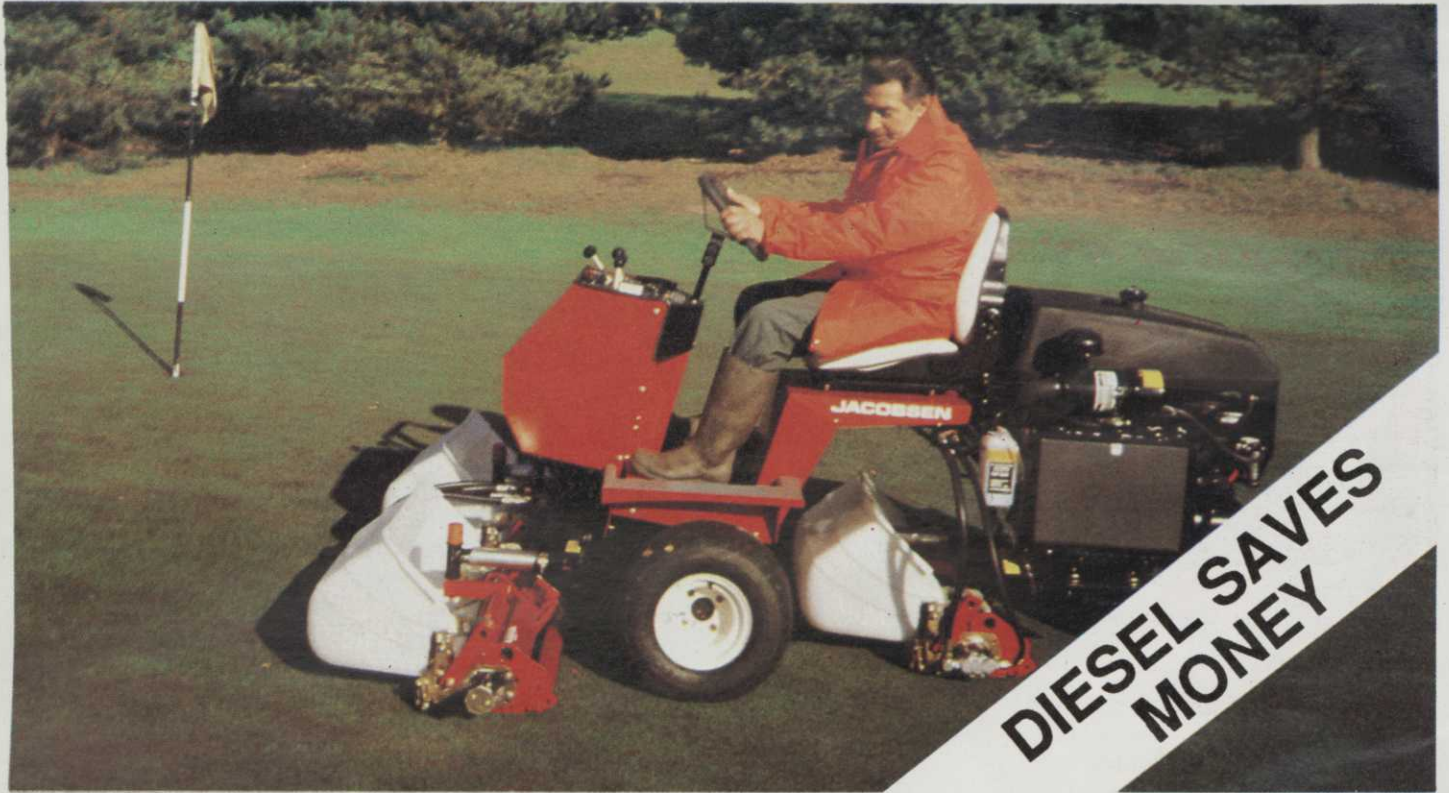
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GOLF GREENKEEPERS ASSOCIATION

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I. McClymont c.1900 - Old Tom Morris,
perhaps the first Keeper of The Green? -
sold recently at Sotheby's for over £20,000.

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David White

We live in a crowded island, cramped in leisure terms by the limitations of space made available for development of golf courses in urban areas, and by a deep seated misunderstanding in the eyes of very many local authorities that golf is a rich man's pastime.

A classic example came to light recently when Watford Borough Council, a left wing controlled body in a heavily populated area, reluctantly conceding the need to give golf to the ratepaying populace at large chose a cheapskate way out, that of attempting to claw back into public ownership a private golf course and club that had operated successfully and profitably for approaching one hundred years.

Their failure is seen, certainly in my eyes, as a victory over bureaucratic bungling, but it does pose the problem of just where todays overspill players and future generations of young tyros are going to find suitable sites for their teeth cutting.

The plea of limitations on finances, ground space or population often prevents development of a full 18 hole layout, and where this occurs authorities look to nine holes as the only alternative. This has not always been the case and records of olden days demonstrate just how varied golf courses were in their hole numbers.

Odd Numbers

The old links at Musselburgh, where I recently witnessed the grasping vandalism perpetrated by the racecourse authorities and where play is now limited to a mockery of former times, were originally played over just five holes, later extended to eight; until 1870 Wimbledon had only seven, until Tom Dunn extended it to 19! (one for luck?) Gullane began with 13, adding two later. The very first Open

Championship, won by the innovative Willie Park at Prestwick in 1860, was played over a 36 hole total of three times twelve holes. North Berwick were content with seven while Montrose for some inexplicable reason had 25! Bruntsfield, where a shortened variety of the game is still played, began with only six. Blackheath, as influential in setting standards then as the R. & A. is now, played their earliest matches over three times seven.

Of equal importance historically is the length of holes. Our forefathers had no need for monsters, for the old feather ball, and later the guttie, didn't travel nearly as far as it's modern counterpart. Perhaps there is a case now for further restricting the length attainment of the modern ball, or in certain circumstances imposing the use of the innovative Cayman ball, which travels approximately half the distance of it's big brother. I've played the Cayman and can vouch for its entertainment value.

Accidental Eighteen

With the move of authority from Prestwick to St. Andrews came an acceptance of their own particular and peculiar course layout of eighteen holes, albeit played over nine double greens, home and back. The seal was set and eighteen became a standard from which we may not deviate.

Clever course designers now ensure that ninth and eighteenth greens return to the clubhouse and though few, if any, give credence to double greens (which I feel add spice to the game, placing putting at a high premium and, surely, making maintenance easier?) the loop permits the shorter game of nine holes to be played with ease.

The space/cost factor however, even for nine holes, is one that will not go away. With present day construction costs alone running at between £25,000 and £38,000 per hole there is much in favour of looking at smaller sites, disused gravel pits, reclaimed land, school, university or hotel outfields and unused and neglected industrial land, where authorities or



smaller communities who feel they are unable to afford or maintain a full length course would be more readily able to construct and maintain a useful and competitive six hole course.

The schools could include golf in their curriculum, recruiting assistant professionals as group coaches, and industrial giants could have facilities at hand for their personnel — a therapeutic release valve for the pent-up frustrations of the day. As for the aged, a six hole course may well provide all they want, leaving the full length courses to those more able to stand the weariness which 6000+ yards often brings.

Six(th) Sense

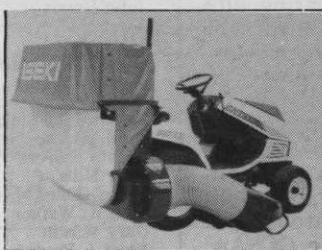
Golf over six holes, even six short holes, need not be dull, indeed with sensible use of multiple tees, large enough to withstand the extra usage, a layout could be devised with variable hole lengths that would bring in every possible combination of the game. Nor should we lose sight that perfection in the short game, the skill of holing six-foot putts and placing chip shots to within one-putt distance every time, would make remarkable players of us all. Banging the ball a mile with wood is not the way to perfection.

Let us examine the benefits. First the land needed, often unsuited to any other sporting application, will be about 25% less than for a nine holer. The course construction costs will be substantially lower and maintenance could, in most cases, be handled easily by one or two greenkeepers. No longer would it be necessary to write off the better part of a day for a round and its trimmings. Six holes may easily be slotted in, say ninety minutes at most. Above all six hole courses would serve as a relief canal from overcrowded courses whilst providing those without access to such full facilities to experience the joys of this most glorious game — that surely would be no bad thing?

**DAVID WHITE,
EDITOR**

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Details are now available of the BIGGA trip to Florida to attend the GCSAA International Golf Course Conference and Show, which will be held at the Orange County Convention Centre, February 19th-26th, 1990.

Flights are direct from London Gatwick to Orlando Airport. The party will be based at the stylish Wynfield Inn, close to the Convention Centre and convenient for all local attractions, e.g. Disney World, The Epcot Centre, Sea World and Wet and Wild Park.

Depart from Gatwick, Thursday 15th February - 11.15 hours - arrive Orlando 15.45 hours.

Return from Thursday 1st March - 18.20 hours - arrive Gatwick 07.25 hours (2nd March).

14 nights accommodation on twin-bedded basis, at Wynfield Inn: Adult: £545 plus insurance at £34. Child: £320 - based on sharing with two adults - 50% insurance reduction if under 11 years.

NB. These prices are inclusive of a free rental car for the full duration of the holiday.

Though details of Conference registration (not included in above) are not yet available from the GCSAA, the Association will seek to negotiate discounted rates for BIGGA members joining the trip, as applied at the Anaheim Conference earlier this year.

Booking must be accompanied by a deposit cheque of £85 per person, inclusive of insurance, and must be received at Headquarters by September 30th.

For all bookings and enquiries, please contact Samantha Flint at Headquarters.

NEIL THOMAS

Welcome to our New Members

GREENKEEPING MANAGEMENT is always happy to tell the world of success stories throughout our profession. And when the need arises we'll not be above a little trumpet-blowing on our own behalf. One such success story is the remarkable growth in our membership over the past few months. With the figure zooming well over the three thousand level and with new members responding positively to the reply card form at the rate of twenty five new members each week, BIGGA is very proud indeed to welcome those new members listed here. To them all we extend the hand of friendship and professionalism - built on a solid foundation of growth and understanding of all that is so good within this fine industry.

Maurice Groves
John Plummer
B. Geddes
Colin Lusher
J. O'Donnell
Guiseppa Orabona
Gordon S. Irving
T.H. Codling
Roy Croston
Graham R. David
S. Diplock
D.G. Hatter
R. Minton
D. Morrison
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James C. Birkett
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Colin Robinson
Simon J. Beniams
Gordon F. Bennisson
Adam Dunsmore
C.R. Hindle
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Robert Lees
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Peter J. Reeves
Philip M. Sharples
Alan G. Tait
James H. Honeyman
Michael J. Bratton
Mark A. Cumpston
Martin I. Gunn
Roy W. Jackson
Matthew S. Williams
Owen L. Williams
James Dyson
Oliver J. English
Brian L. Woodhead
Sandy Brawley
John M. Chrichton
Lydon Day
John Harris
Jeremy M. Kershaw
Tony King
John H.W. Partridge
Alasdair Pope
Robert C. Rye
Anthony H. Smith
John Whitney
Martin Barrett
Gary Mills
John Mullins
Paul A. Walker
Gary Wilson
Nigel J. Baxter
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Andrew Pullen
Gareth J. Rees
John R.D. Boughey
Neil Brown
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John B. Monk
Bernard Roe
Alan J. Southey
P. Tones
Robin L. Bond
Gary Bridseman
Graham Cox
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Yoshisuke Maki
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William Tomlinson
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The National Association of Public Golf Courses threatened

The National Association of Public Golf Courses, for sixty one years the accepted and recognised administration body for the public course club golfer, are indignant at the recent news — out of the blue — that the E.G.U. are to discuss a privately published paper. 'The English Golf Union and the Non-Status Golfer' without consultation with NAPGC, **even though their Association represents over 100 of the present public course clubs and over 80,000 public course players!** Insulted and indignant as they are over the seeming insensitivity of the E.G.U. on such an important issue, they made the point to Greenkeeping Management that to make attempts to support and recognise the non-status golfer without involving the ONLY organisation with real experience is tantamount to their being dismissed!

Some of the questions posed in the paper, with NAPGC comments, are given here:

1. The Non-status golfer (NSG) wants some official recognition of his golfing ability. **Answer** - Let him join the club at the public course he plays upon.

2. The NSG wants to become a better player and enter the 'real' world of golf by competitive and social play. **Answer** - By joining a public course club he gets his 'passport' through a handicap certificate.

3. The NSG wants ultimately to join a club or society. **Answer** - Public course clubs would welcome him into their ranks.

4. The NSG wants to improve his knowledge of rules and etiquette. **Answer** - The first priority of NAPGC is to teach new players the rules and etiquette of golf - with committee members of the Association always on hand to guide and counsel.

The NSG wants an opportunity to play in an organised competitive arena. **Answer** - NAPGC organise numerous competitive events at both local and national level.

6. The NSG wants a passport to extend his play beyond the municipal course. **Answer** - All public course clubs are affiliated to their County Union, and each member receives a recognised CONGU handicap, enabling recognition at other courses.

Before passing judgement, Greenkeeping Management will want to learn the views of the E.G.U., but on the face of it, they appear to have alienated one of their best possible allies.

Murphy on Golf: 2

"A golf ball will always slice, except when the rub-bish is on the left, when it will inexplicably hook", to which we might add, when making allowance for a slice, the ball will always go straight!

Poseur's Pose!

A chance for fame and glory awaits those competing in the **BIGGA National Golf Tournament**, to be held at Lyme Regis on August 14th, 15th and 16th. Quite apart from the awards and trophies, your intrepid editor will be in attendance, complete with zoom lens, to record posterity (and a two page colour spread in the September issue) the daily swings and the après swinging! So... as you gaze at that Ultra, with its 432 icosahedral dimples, soaring majestically towards the target, remember — hold that pose!

Footnote for latecomers: A call to Gordon Child (0803 844056) may still get you a place, but hurry...

N.B. Poseur — a person who strikes an attitude or assumes a pose in order to impress!



ANOTHER DEAD MOLE

A RARE ALBINO MOLE TRAPPED BY G. MOIR.

Greenkeeping enemy number one, the mole, is seen here in a different guise. One of four of the same little varmints trapped by Fraserburgh Golf Club head greenkeeper, Gordon Moir, all within a matter of weeks. All pure white when trapped, Gordon makes the point that this specimen had turned a little yellow by the time he had photographed it, being well dead and smelly, having been in the trap for a few days. Gordon says of this rarity, 'I am sure many greenkeepers have never seen a white mole before'. Our feelings are that these obnoxious creatures, albino or regular, male or female, big or small, whatever their disguise, are better dead than alive.

Rosemount record shattered

From Gordon Moir, a man justifiably proud of Scotland and its wonderful golf courses, came a report of the annihilation of Rosemount by two Frenchmen... in the Scottish Open Amateur Stroke Play Championship. Tournament winner Francois Illouez knocked one stroke from Greg Norman's previous record, scoring 65 in the first round, only to see his compatriot J. Giscard lower the number to 64 in the final round. As Gordon so rightly points out, this reflects well on the marvellous condition of courses in his part of the country.

Player on Architecture

In talking about courses, Gary Player, another of the growing band of golfers-cum-architects making a lasting impression around the world — especially the USA — expressed an opinion recently. In discussing the trend of the wealthy American set wanting to build 'monuments' to themselves, and requesting architects to build to tough specifications, he said "they're creating monsters!"

He can envisage, when the novelty wears off and members tire of having to make freak putts all day or of taking five hours for a round, that some major surgical re-modelling of these white elephants will be necessary. "At a lot of golf courses, people just want to get the heck out." And his answer? "... I want to start a new trend — building golf courses that people will enjoy."



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From Sussex we delight in announcing to the greenkeeping fraternity the engagement of Nick Beadle to Karen Johnson. We join with the Sussex Section in wishing them good luck.

★ ★ ★

Also in Sussex, we hear that section Chairman, Alan Butromovicz, has changed locations, moving from Ifield to Tunbridge Wells as Head Greenkeeper. **Greenkeeping Management** joins with the section in wishing him every success.

★ ★ ★

From Bob Lupton we learn that his committee man Dennis Cockburn has moved his job, from Colne (in Lancashire!) back to what Bob describes as 'the right side of the Pennines'. Dennis is now head greenkeeper at the Silsden Golf Club and good luck goes with him from all the Yorkshire Terriers.

★ ★ ★

La Manga's Course Manager Steve McMahon is one of the better known greensmen who have joined BIGGA... one of over 200 new members who are joining at the rate of 25 per week. European based greenkeepers are joining at the rate of 2 per week from Sweden, Germany, Holland and France.

New at ICI



Richard Minton is the most recent recruit to join ICI's Professional Products UK sales team.

Richard has been appointed to cover the Midlands, South Wales and South West England as Technical Representative supporting the activities of ICI's network of specialist distributors.

Lineage and photographs should be sent to David White, 13 Firls Close, Seaford, East Sussex BN25 2HL Tel. 0323 891291

One into three does go!



The 'new' team charged with taking ICI Professional Products into the nineties are Roger Mossop, David Hatter and David Siddon (pictured above). This follows the promotion of Keith Cleverly to another business and sees the new ICI formula placing major emphasis on utilising their specialist personnel skills to the full.

Roger Mossop brings specialist marketing and product development skills to the operation, David Hatter has business development and financial management as his responsibility and David Siddon directs the ICI team of representatives and distributor sales development.

From the time, six years ago, when ICI entered the sports amenity industry with their range of fungicides and herbicides they have grown into market leaders, a position that the team are charged with maintaining and further developing.

Not content with resting on their laurels, the strategy is one of continued product and market development, further expanding into areas of opportunity they see as strategically acceptable.

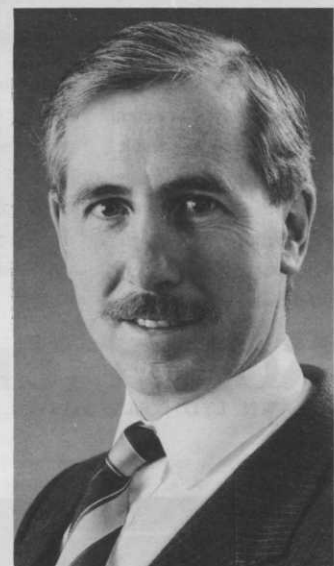
In a statement, Roger Mossop talked of the thirty products launched over the past six years, saying 'our first consideration is safety, nothing gets even near the marketing stage until we are satisfied that our products meet the standards laid down by the Ministry, only then do we progress to the marketing stage. All out pesticides have Ministry approval for their intended use.

Well known and well liked by many BIGGA members, we at **Greenkeeping Management** wish the new threesome continued success in staying to the fore.

★ ★ ★

From the London section we have news of Nick Baldwin, who has left Sandy Lodge Golf Club for a position with T. Parker & Sons, (Turf Management) Ltd. We also learned of a move by Alan Grew, who has taken a first assistant post at Brickendon Grange Golf Club. To them both we echo the best wishes of the section in wishing them well in their new careers.

NEW AT RSJ



Joining Ransomes as Group Financial Director from London International Group, where he was Group Treasurer, Geoffrey S. Comer, a Chartered Accountant.

Lindum's strong network

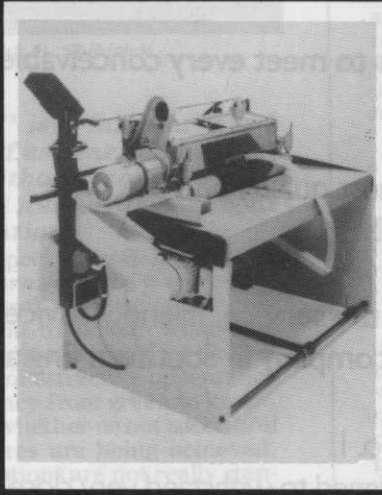
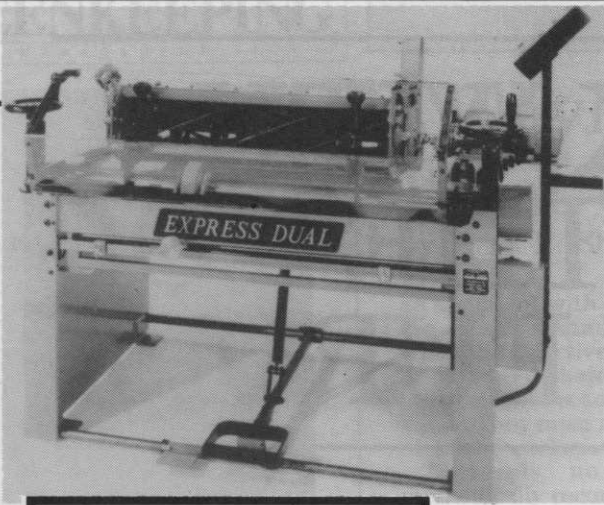


Lindum Seeded Turf have rolled out their new appointments: Geoff Hodson, their new appointed Sales & Marketing Manager; and SODNET, The USA made netting product, for which Lindum have been appointed the UK's sole distributor.

Geoff has wide experience, for the past 5 years having held a position of seed specialist with one of Europe's largest breeders and his appointment is seen as adding yet more strength to an experienced management team.

SODNET - the name under which this product is marketed - is designed to prevent soil erosion of newly-sown beds, acting as a mulch and reducing moisture loss.

Geoff Hodson (on right of picture), newly appointed Sales and Marketing Manager for Lindum Seeded Turf, seen here with Stephen Fell, Director of H.R. Fell & Sons, who is responsible for the Lindum operation.



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The mower cylinder blade is turned so that the blade setter indicator 3 is located onto the bottom blade of one side of the mower, as shown in the diagram. When the indicator arm is located onto the bottom cutting blade the setter bar will pull up onto the rollers of the mower keeping the blade setter in position for setting adjustments.

To adjust the height of cut move the adjustable roller up and down, in the normal way, and as you do so the indicator will move until you reach the required setting. When the required setting is reached move the setter to the other side of the mower and repeat.

Two types of indicator are available. One for fine cutting, giving an adjustment from 0- $\frac{3}{8}$ " and the other for higher settings from $\frac{3}{8}$ "- $\frac{3}{4}$ ". To change the indicator 3, the pin and spring are removed and then replaced with the indicator selected.

As mentioned earlier a very accurate setting can be achieved for both height and levelness of cut. This is due to the pivot action of the indicator, moving across the scale magnifying the actual reading by four times to one. Metric scale is available if required.

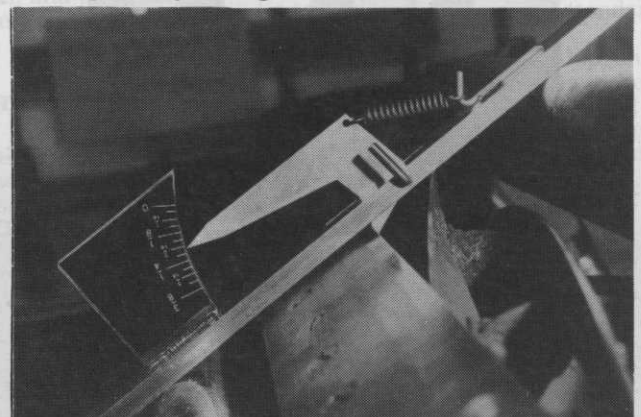
PLEASE NOTE

This is a precision instrument and care should be taken when locating, and disengaging, the indicator, from the cutting blade. The indicator should be pushed up so that it clears the blade and then slid and lowered so that the MOWER CUTTING BLADE LOCATION (1) locates on the front cutting edge of the cutting blade as shown in the diagram.

On most triplex units the setter can be used with them still on the machine. However it has been found much easier to use the setter when the units are off the machine and turned upside down.



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John P. Shildrick

“Standard” is a familiar word that most of us hear and use frequently without worrying too much about its exact meaning in every situation.

Players expect a golf course, its greens and fairways, to be prepared “to a high standard”, but would probably find it difficult to explain what they mean by high standards. Most likely a combination of attractive appearance and consistency from green to green, coloured by whether or not successful personal scores are being achieved. These perceptions are not really standards: more, just personal preferences, their own or others.

Many greenkeepers think of “standards” in terms of different heights of cut for ordinary weekends and for tournaments, or the gradation of different heights and mowing frequencies for fairways, semi-rough and rough. In other words, standards are what is done, when, how often, at what height of cut, or with what scarifier setting. These are still not really standards; but descriptions, or specifications, of workmanship.

Green Speed

Most greenkeepers also have their own ways of assessing the results of workmanship, by personal tests they learnt as apprentices or have developed over the years: rolling or dropping a ball, pressing their heels on the turf, even just playing a round on the course from time to time. Some will make use of more objective tests; measuring the thatch when the hole is changed, or using the Stimp-meter — that simple grooved stick down which the ball rolls when a certain angle is reached, so that distance rolled is a measure of “green speed”. Here at last one can really begin to talk of standards: from these various tests of playing quality, subjective or objective, standards can be decided and checked.

Subjective tests are fine while the same man applies them, trusted in his judgement and able to decide from year to year whether or not the greens are fit for the big event. But what happens when he leaves, or is ill, or has

“Playing Quality Standards” What do we mean?

by John P. Shildrick

an argument with the Green Committee or the visiting adviser? That is when the objective test — the regularly measured thatch thicknesses, the Stimp-meter readings, have their value. They must not be used blindly, or to the exclusion of other criteria.

There is no substitute for methodically recorded measurements and the wise greenkeeper has some record of the test results: he has recorded his own standards of playing quality and — better still — made notes of what he did to achieve them.

Guidelines?

Other people concerned with golf courses mean something different again by “standards”. The constructors and installers of equipment may have their own personal “standards” to work to, or may work to Association ones. These may be general rules of good working practice; or points of procedure such as providing the client with clear maps of work done. Some confusion might be avoided if, in this context, the term “standards” could be replaced by something like “codes of good practice” or “guidelines”.

In a slightly different sense again, these contractors or installers may be using equipment or parts which conform to BS this or that: in other words, a “British Standard” defines, perhaps in considerable detail, the quality and dimensions and fitness for purpose of specific materials.

Finally, the British Standards Institution is now about to publish British Standard Recommendations for Grounds Maintenance which cover many of the different aspects of the definition and assessment of quality already reviewed; but the numerical criteria that most of us would call “standards of turf quality” have to be called “maintenance objectives” to avoid confusion with the word “standard” as in “British Standard”. Confirmation indeed that the word has been overworked!

Nevertheless, there is much talk of standards nowadays in all kinds of amenity turf situations, and progress really does require everyone to mean the same thing when any particular word is used.

Clear terms

In February the NTC held a Workshop dealing mainly with standards for football pitches, this is slightly different from the situation on the golf course but Peter Dury, one of the speakers, emphasized the importance of using terms clearly. He described his own authority’s three-part documentation:

1. Standards.
2. Specification.

3. Code of practice.

First, standards. These, principally standards of playing quality, identify what is wanted by players or users. In football these can be measured, and figures specified to define the required standard. For golf there is not yet quite the same framework of measured data, but there are for instance guideline figures for the Stimp-meter. In addition, research work at STRI is now giving a picture of what values to expect for ball bounce or surface hardness on a golf green.

Second, specification. This indicates what the client requires the contractor to achieve, and define the standards required on any particular turf area.

Third, “code of practice”. In Peter Dury’s case this means a document setting out good practices for certain operations (with chemicals or equipment, for example). In working with these the contractor would be expected to follow the code — although in more routine operations he could use his own judgement on how to achieve the specified standards.

The yardstick

This is just one example of how standards for the greenkeeper are not abstractions, but the yardsticks by which the success of daily work is measured and by which decisions on repeat treatments or change of treatment are made.

Likewise, these standards of playing quality will be the ultimate test of whether construction, drainage or irrigation installation has been successfully undertaken. The contractor or installer will have a code of good practice, or whatever it is called, making clear the depth of pipes, the acceptable uniformity of rootzone mixtures, the type and BS number of pipe to be used, and so on. He will work according to the specification, in the customary sense of the prescription laid down by the architect, consultant or other specialist. But in the last resort, the specification itself and the workmanship that went into achieving it, will be judged against standards of playing quality.

Standards cannot be developed until suitable test methods have been worked out. And standards cannot be achieved consistently until the relevant operations and their frequencies have been identified — in mowing, irrigating, fertilizing, aerating, and so on. Draining a football pitch for instance is not easy, but it is simpler in theory and practice than adjusting the ball characteristics of 18 different greens by the right combination of fertilizer, irrigation, thatch control and mowing. But even this will come.

"A Change of Headgear"

BY FRED HAWTREE

It may have escaped your notice, locked up as you are in your ecological struggle with Nature, machines and the members; that three months have elapsed since Cardinal Joseph Malula passed on to higher things from amongst his flock in Zaire.

His chief legacy was an adaptation of the rites of the Mass to African circumstances. Certainly Pope John Paul II will not forget his 1980 visit to Kinshasha in a hurry, when twenty Zairian priests danced to the Gloria dressed in gold robes, rocking rhythmically from side to side in front of the Peoples Palace; nor the crescendo of tom-toms as they thundered across the square on the cue: "Let us pray!". Eight more years were nevertheless needed before the Vatican gave approval to the Cardinals localised liturgy, and then with a firm proviso — leopard skins will not be worn!

By contrast The Holy Diocese of St. Andrews has never laid down rules appropriate to the rig appropriate to golfing or its designers. Restrictions are unnecessary, for set apart as they

are from the profane world in sadness and loneliness, golf architects dress soberly, although when the American Society of Golf Course Architects adopted Dornoch's son, Donald Ross, builder of several hundred US courses, as their patron saint they uniformed themselves in blazers from the red and black Ross tartan woven in Scotland. A hundred of these at their annual banquet can be trying on unshaded eyes, though easily distinguishing members from visitors.

In this country, after 1900, a sartorial watershed also divided early professional golfer/designers from those amateurs quietly infiltrating the brotherhood. ALL wore caps upon the links and the professionals continued to do so while architecting golf courses. But the amateurs — turned — designers changed their style to match. They donned the felt Homburg hat of commerce. There was obviously money in it.

The 1913 photograph shown of their leader, Harry S. Colt, planning St. Cloud near Paris illustrates this change. Holding a plan unfurled (photographers still require this) his tall figure dominates the group still more

strongly through his heavenward extension by a Homburg of majestic proportions.

Across the Atlantic, A.W. Tillinghast, who designed most of the USA's favourite championship courses, often penetrated the jungle wearing just the same headgear.

Two photographs in my family album confirm the Distinction. The group at an exhibition match at Sundridge Park before 1914 shows J.H. Taylor (umbrella), James Braid, Alex Herd and Harry Vardon, ALL capped. The founder of **The Golf Greenkeepers Association** (on Taylors right) is also capped. But in 1920 in The Open Exhibition Tent at Deal, having embraced golf course architecture, he has also embraced the Homburg hat.

The Capped ones were not deterred. They counter attacked strongly, led by four Open Champions with one Sherwood Forester at the rear.

Willie Park Jnr., still on the active list, produced the first serious writing on golf architecture in **'The Game of Golf'** (1896). Between 1900 and 1919 he built 50 courses in Britain and 5 in France. Another 40 in the USA included the Grove Park Inn Course at Asheville N.C., recently pared down because the Inn seems to be getting bigger than the golf course.

After James Braid's first Open in 1901, he was designing as well as winning again in 1905/6/8/10. Henley, Northampton, Oswestry, St. Austell and West Hove belong to this period.

John Henry Taylor, five times Open Champion and six times runner-up, was not far behind with Clevedon, Eastbourne Downs, Heaton Park, Queens Park, Bournemouth & Seaford.

Harry Vardon won one U.S., and six Open titles. His earliest designs included Letchworth, Little Aston, Mendip, Sandy Lodge and Saffron Walden. He might have done much more, but his health slowed him down.

Lastly, in 1919, a circle within a 40 mile radius of Nottingham would contain only one course NOT designed by Tom Williamson, pro/greenkeeper at the Notts. Golf Club.

But the Homburgs were coming.



Harry S. Colt at St Cloud, France, circa 1913.

"They donned the felt Homburg hat of commerce"

They too put up a team of five, captained by Harry Colt, R. & A. Rules Committee, Cambridge Captain, Lawyer, Sunningdale Secretary, and finally No. 1 course architect of the amateurs. He scored 20 layouts in his first eight years, finally leaving Sunningdale in 1913 to go solo. His associates Dr. Alister MacKenzie, the Leeds medical practitioner, and Hugh Alison, Secretary of Stoke Poges followed his lead.

J.F. Abercromby was not a prolific designer, but was highly respected. His new course at Addington was a gem, stolen now by housing needs, though the Old Course is fortunately still there. He checked out the opposition by working with Park earlier at Coombe Hill.

Herbert Fowler, who had designed Walton Heath, co-operated with Abercromby at Cowdray Park and West Kent (now moved to Downe). All three were involved in the early days of Worpleton. Fowler started playing golf at the late age of 35 and planned Walton Heath because of a family connection. He then completed five British courses and one in Los Angeles before the 1914 war.

On quantity, The Caps halved one game and won the rest, even giving a stroke a hole. But if we assess quality in the results, I should say it was honourably halved.

The flood of new courses did not

Caps well to the fore at Sundridge Park, circa 1913.



stop completely between 1914 and 1918; it slowed to a trickle. Only MacKenzie and Alison were young enough to join the Army. But in 1920, both sides returned to the offensive.

The amateurs struck first. Colt & Alison produced one book, 'Some Essays on Golf Course Architecture', and Alister MacKenzie produced another. He included in his book a list of the 13 features essential in an ideal golf course, this catching the readers imagination, as simple summings-up often do, despite what they leave out. Historians have mistakenly quoted from this book ever since, but I can now reveal for the first time that MacKenzie first outlined his

13 points not in book form, but when lecturing to the Northern Section of the Golf Greenkeepers Association. **Greenkeepers First — The World Second!** He obviously got his priorities right.

In case you have forgotten what he said up there, we shall start in the next issue where we leave off — with those 13 points, and a few extra for good measure. Incidentally, his book, 'Golf Architecture', costs about £350 now, so you might as well wait and get his points for nothing.

FRED HAWTREE

A Homburg behatted forebear of The Author.



Two new courses

Two new educational courses are announced, one a full time course in Horticultural & Greenkeeping Engineering at Reaseheath, beginning in September. The other, at Cannington and also beginning in September, is an HND Amenity Horticulture with option allowing specialist studies in the Management of Fine Turf Facilities. Both will increase the career status of potential course managers and provide exciting new opportunities.

GCSAA donate \$25,000

The GCSAA recently donated \$25,000 to the USGA/GCSAA Turfgrass Research Committee to support ongoing scientific work on new turfgrass varieties that would require less water and be more disease resistant. At the presentation, made during the US Open by President Dennis Lyon, golf writers learned that more than \$2.8 million has been distributed by the committee since 1983 and that the committee support no less than 25 research projects.

OBITUARY

Greenkeepers in the Midlands will be saddened to learn of the recent death of Joe Carrick, for many years head greenkeeper at The Northamptonshire County Golf Club. Joe joined the club in 1954 from Portmarnock, remaining with them until his retirement in 1981 and then continuing to work part-time until his untimely death. An ex-President of the East-Midlands Greenkeepers Association and an active member of the local Irish Golfers Association he was, as voiced by current Northamptonshire greenkeeping staff, "a super guy and a real gentleman". His passing leaves a void that will be impossible to fill.



PARKERS GREENKEEPERS TOURNAMENT

As adept at organising a golf tournament as they are at providing Total Turf Care Services, T. Parker & Sons Ltd held their annual Greenkeepers Tournament recently at the delightful Worcester Park course, with representatives from over sixty clubs competing for the Parkers Rose Bowl. Victory to Andy Arthur, head greenkeeper at Knole Park, came with a total of 40 Stableford points, with Mike Smith, of Thorpe Hall, as the runner-up.

Ring David

David Golding tells us that all the Greenkeeper Training Colleges are busy preparing for the fresh influx of student registrations for City & Guilds or Scotvec courses.

Deciding which course may be most appropriate can be made easier by talking to him at H.Q. (03473-581) and he will welcome your calls.

No 'perhaps'

Sharp eyed readers have been quick to point out that there is no 'perhaps' about Willie Park Junior having planned, designed and built the Old course at Sunningdale. (July issue). We offer apologies to author Fred Hawtree and to our readers for the missing final line, which should have read "Perhaps the first completed package-deal".

St Albans in

Making a recent visit to Oaklands College, St. Albans, Education Officer David Golding enthused over the standard of training facilities available at this most recent addition to the Greenkeeping Training Committee approved list. Coupled with their well proven record of success over the years, he is confident that more clubs and local authorities will give this college the student registration support it richly deserves.

Our Austrian Connection

Encouraging news from Austria, where Peter Baume is hard at work, is that although golf is still in its infancy, new course building is continuing at a great pace. With thirty courses in play and a further twenty being built (not planned, BUILT!) the forward thinking of this country is one that Greenkeeping Management totally applauds. Peter, who many will remember when he worked at Prestbury, is still a keen member of BIGGA and in writing suggests the establishment of an Austrian section with, as he jokingly implies, himself as President, Chairman, Secretary, Treasurer and raffle ticket promoter!

Planning a return to England for the Christmas holidays, Peter will present himself in a new slimline style, having lost two stone in weight. This he says is due to working harder and under more difficult conditions than he's ever done before!

Latest NTC Publications

It's no secret that the NTC produce some of the most widely read and informative literature especially for the head greenkeeper and amenity turf manager and the announcement of two new additions to their range is one that we here at Greenkeeping Management are delighted to endorse and publicise.

By way of preview (we shall review them thoroughly in our September issue), for those impatient to add the titles to their working library we can reveal and recommend both "The Recreational Diversification of Farmland" (Report No. 13: £9.00) and "Turf Nutrition '88" (Report No. 15: £9.00) as being required reading by greenkeepers, farmers, advisors, consultants and all involved in the amenity turf industry. They may be obtained from N.T.C., 3 Ferrands Park Way, Harden, Bingley, West Yorkshire BD16 1HZ.

New programme

With many farmers seeking to diversify away from agriculture into recreation, it is indeed encouraging that two of the most prominent exponents in the golf industry, Howard Swan & Hawtree & Son, have joined forces in a new programme designed to assist and advise on this important issue. From site appraisal through to design, construction and management of the completed course, their programme sets out to answer the often asked questions of land requirements, building costs, grant availability, income and land suitability. Less potato fields and more golf courses is golf's most pressing need and we at Greenkeeping Management applaud their spirited enterprise.

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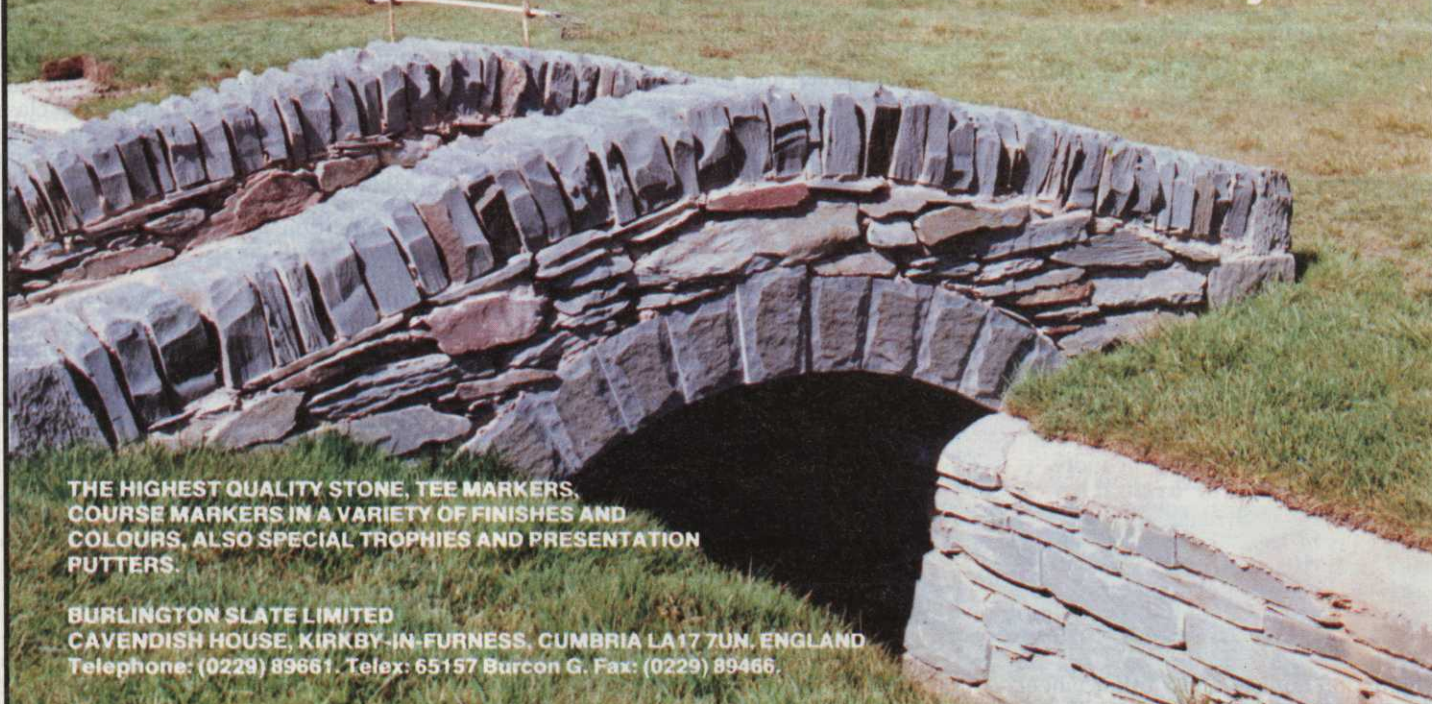
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Photo: Courtesy of Windermere Golf Club

WATCH OUT FOR HEAVY TRAFFIC

BY BARRY WARD

Love 'em or hate 'em, but don't ignore 'em because, like death, and taxes, thatch and dollar spot, golf carts are not about to go away. They're a growing part of the multi-million pound golf equipment market and they're multiplying like toadstools in a damp wood.

It will be some years, one hopes, before they're as ubiquitous as in America, where in most instances their use is compulsory. On the ground of tradition alone, one suspects that not every British golf club committee would condone them, and most clubs would ban their wholesale use on two major points; wheel track damage and a paucity of garaging space. We'll come to the anti-social aspect later.

There can be no argument that in some instances they are a boon. Elderly or mildly infirm golfers who may otherwise be unable to play can now potter around 18 holes in comfort, and those British clubs which allow limited use of carts should rely upon this criteria as a stipulation. Ad hoc use should be approached warily.

This therapeutic aspect, indeed, is what began it all. In the United States they started a golf rush that became a gold rush. They transformed the face of Florida, socially, economically and even topographically, and in the course of the transformation came a land boom the likes of which hadn't been seen for a century or more.

Originally for arthritics

The cart was an idea that originated in Texas in 1952 and it was designed for arthritis sufferers, a battery driven, single seater with a rudimentary luggage rack behind. By modern standards it didn't look particularly prepossessing but it caught the imagination and set a few other wheels in motion.

For some years there had been a tradition among wealthy New Yorkers eager to escape the biting cold of the North American winter: come November and they would flee to Florida, to lie on the beach or beside the pool, to bend an elbow and to bask in the sunshine, there to remain until New York had thawed out.

They were not, by and large, athletic. And though the golf course held some aesthetic appeal, the prospect of walking five miles in pursuit of a small white ball held an attraction comparable to alligator wrestling or under-water ballroom dancing. That's when they were introduced to the golf cart.

They were hooked. Before you could say "What's the bet?" the word had spread and golf course home sites began selling like ten dollar Cadillacs.

Within a few years Florida had become Golf State USA. Palm Beach County, where it all began, now has 278 - at last count. There are 932 golf courses in the State and the building continues unabated (35 opened in 1988 and 45 more are currently under construction) making it number one in America.

The value in real estate sales is impossible to compute, to say nothing of hotel profits, green fees and cart rentals, equipment sales, and the contribution to the State's economy by way of the millions of visitors the game attracts. Not to mention the massive employment all this activity generates.

No speedier play

The incongruous aspects of golf carts is that they don't speed up play.

The subtle difference is that a walking golfer will travel in a straight line (give or take the odd slice) where a pair in a cart will zig zag like a hooker



playing a double dog leg in a cross wind. If they walked as far their legs would drop off.

To compound the problem, many US courses have what they call the 90 degree rule. This means that a cart must stay on the path provided up to a point level with the ball to be played, and only then is it permissible to drive across the fairway to the ball.

The reasons are obvious: just as cart paths are laid to obviate damage and compaction (though in truth they can create erosion problems through water run-off) so are fairways out of bounds.

A team of course marshalls is constantly on patrol to enforce the rule, and it's not unknown for offenders to be asked to head for the clubhouse.

The rationale is obvious: a top class resort course is an expensive beast to maintain. To attract resident golfing guests in the cut-throat world of US resorts your course has to be flawless in condition 365 days a year . . . or the punters will go elsewhere and heads will roll.

Each course will have its own maintenance team (one man per hole is the logistical rule of thumb), equipped with every mod con in terms of plant and machinery. The investment required in maintenance is in the realm of a king's ransom; they're not about to jeopardise that, and the daily fruits it brings, by giving golfers carte blanche with buggies.

This is a point that British golf club committees should ruminate upon when faced with demands for more cart facilities, as doubtless they will in this age of the moneyed yuppie, the infernal combustion engine and its ever-turning, constantly multiplying wheels.



Cart golf Texas style. Weekday rules at this club-permit twelve players to a group. The first tee starts resembles a Grand Prix, with a stampede that has to be seen to be believed.

Consider that at most British clubs wide-tyred wheels are mandatory on even the humble pull trolley and, on the grounds of potential damage alone, it is difficult to condone the growth of cart use.

Not many British clubs are capable of financing the five or six miles of concrete pathway that would be necessary once numbers rose beyond the minimal minority, and without the paths and a strictly enforced 90 degree rule the average club course would quickly deteriorate: tracks would form on inclines, creating potential run-off problems and erosion: tee and green access points would become compacted and worn, as would fairway mounds already shaven by gang mowers.

A little introspection would reveal how par three holes would suffer particularly badly and it would be advisable to create a circular route, perhaps through adjacent rough or woods, to deny carts access to short fairways and diverting them to a point behind the green.

Stringent rules

Those clubs already committed to a growing number of carts should contemplate stringent rules before the rot sets in. The previous paragraph is a starting point, and on the matter of diversions and the 90 degree rule it would be advisable to insist upon carts creating their own pathways through the more accessible rough and wooded areas, where the damage they cause would be minimal.

One of the few beneficial side effects of the cart, though it's one which has encouraged it's proliferation, has been received warmly by course architects and constructors. The cart

creates space. More specifically, it allows all the land available to be utilised. A US resort of 2,000 acres plus which didn't have 250 acres or more to play with for a new course would be a rare one indeed. With this and the cart in mind, the architects don't stint on space when they settle down to doodle.

The frequent consequence is vast distances between the green and the next tee, often as much as a minute away by cart. Walking, plainly, would be out of the question in this scenario. Few, very few, British clubs are blessed with such expansive estates, in fact the reverse is often the case. There's often only a minimal amount of suitable land available for garaging them.

So anti-social

Certain other members of my club would give a silent cheer at the news that the fleet of carts has reached its optimum number. Not a few of us consider them a pain in the bumper at best, particularly the petrol driven version, which is both smelly and noisy.

More than that, they're anti-social. In a recent medal my two playing partners shared a cart while I walked. It was akin to playing alone. The others always seemed to be chuffing off ahead, nattering away as they searched for their balls and weighed up their shots, leaving me trudging along in the rear. I don't think we exchanged more than fifty words during the whole round.

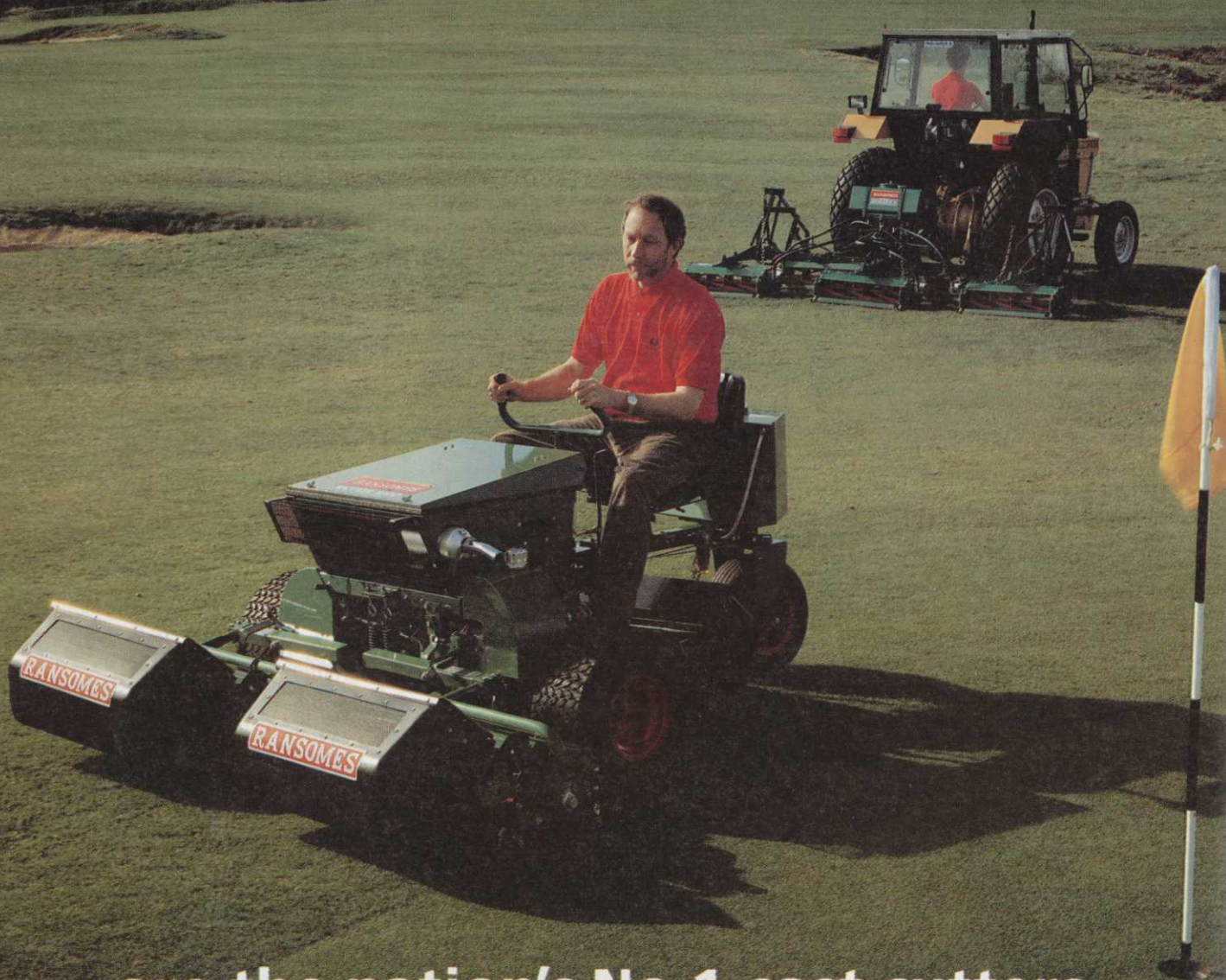
In truth, holidays apart there's little or nothing to be said in their favour, but in an age when declining standards are the norm and the yuppies are on the rampage such complaints will ring few bells. Traditions count for naught these days and I suspect mine is a lone voice.

Anyone for tennis?



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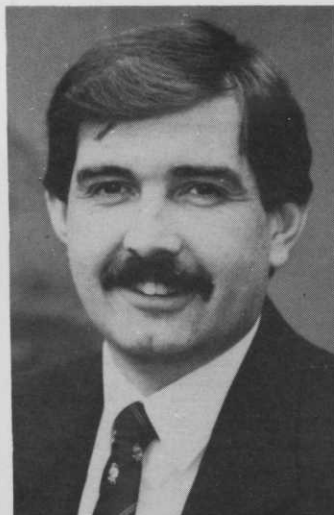


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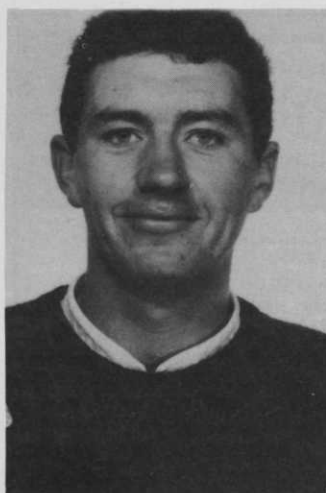
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David Galvin

MARTIN GALVIN



Nominated by Plumpton Agricultural College.

Martin, from Co. Cork, left High School to work for J. Ryan Landscape Ltd, a firm specialising in sportsturf and golf course maintenance and construction. Taking an intensive 3 month Sportsturf Management Course in the Winter of 1987, upon completion, he was placed in charge of a unit maintaining winter pitches and carrying out general landscaping tasks.

In Spring 1987 Martin supervised a team clearing proposed sites for fairways at a new golf development. His work also included meeting with both architect and advisor over tee, green and fairway construction and upon completion of the venture, in autumn 1988, he was given responsibility for maintaining the course, Monkstown Creek Golf Club, Co. Cork, which opened for play in June 1989.

His education course is City and Guilds Greenkeeping and Sportsturf Management, Phase II.

Nominated by Elmwood Agricultural College

David, from Fife, is a fine golfer, having been Angus Champion in 1987 and 1989. He comes from a greenkeeping tradition, his grandfather having been head greenkeeper at Downfield Golf Course in Dundee. Following that tradition, he holds a post at The Home of Golf — St. Andrews — where he has been for five years. Walter Woods, the links superintendant considers him a fine example to many of his young greenkeepers and heartily endorses his nomination.

David is at present completing his third year at Elmwood and has achieved all of his modules through a three year block release course.

His ability to do work to a high standard is reflected in his Elmwood course and he intends to continue his studies into a Management Course in the near future.

His education course is a three year Greenkeeping Modular Programme.



DAVID LEITH

Nominated by Oatridge Agricultural College

Stephen, a young dynamo of just 19, has just completed his three year apprenticeship. Despite missing part of the first year through illness, he has passed all modules with flying colours and has been voted top student every year. This year he received two additional awards, the BIGGA prize for best third year student and the IOG prize for best student over a three year apprenticeship. It is Stephen's ambition to graduate into greenkeeping on a first class championship course.

His practical experience should stand him in good stead, being

A NEW WORLD OF EX

With nominations now complete, we move another step along the road. The winner of the Toro Young Greenkeeper of the Year will be one of the students profiled on these pages.

In truth, all nominees are winners. They represent the cream of students to build a worthwhile career for themselves. As a reward for their efforts they will receive worthwhile awards when selection day arrives — set for September, Aldwark Manor, York.

The outstanding student will be handed the chance of a lifetime — a trip to the U.S.A., where a whole new world of experience awaits.

The itinerary, late in January 1990, will take the 'Toro Young Greenkeeper' to the University of Massachusetts at Amhurst, close to Hartford, Conn. Resident at the University for seven weeks, the award winner will attend the "Winter School for Turf Grass Managers".

Subjects for study concentrate on turf-grass management, including fertilizers, shrub and tree maintenance, course design and construction, drainage systems plus the theory of the internal combustion engine, and personnel supervision.

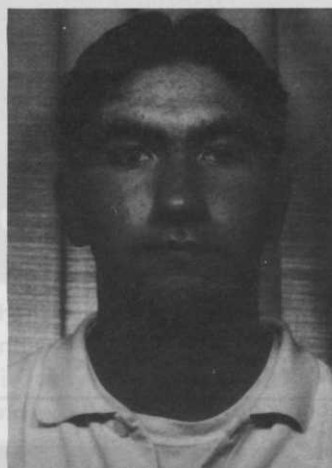
Weeks 8 and 9 will be divided between residential visits to the Toro Division in Minneapolis and to the Riverside, California home of Toro manufacturing facility.

In both cases, local trips will be arranged to view TORO equipment in operation, equivalent of our own greenkeeping practices.

If that's not enough, we also understand that TORO will be providing the 'Toro Young Greenkeeper of the Year' award winner with a fistful of dollars spending money.

part of the Craigmillar Park Golf Club team under head greenkeeper, Mr Montgomery. The club is well known for promoting an annual early season tournament, a must for players seeking Walker Cup and Order of Merit points. Nick Faldo was a victor in 1976, when still a junior.

His education course is a Scotvec National Certificate in Greenkeeping.



STEPHEN SINCLAIR

Nominated by Askham Bryant College of Agriculture

John, the epitome of a dedicated greenkeeper, works hard to ensure that his course, Sleaford Golf Club, is maintained in tip-top condition.

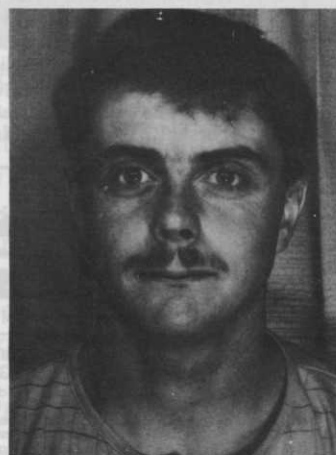
After nine years, the last two

as head greenkeeper, he reckons he knows just about every blade of grass on the full 18 hole course, together with the 6 hole par three overspill.

Coming into greenkeeping via a YTS scheme at aged 16, John was recommended for his headship by the previous head, Jim Durrands, who retired after 23 years at Sleaford.

Quite apart from his busy schedule and management of a staff of three, John has completed his three year course with flying colours. His club members are secretly delighted at his nomination, and the membership of some 650 are in full support of his continued educational quest.

His education course was City & Guilds Greenkeeping & Sportsturf Management, Phases I, II & III.



JOHN SCOTNEY

Young Greenkeeper of the Year - College Nominations

PERIENCE

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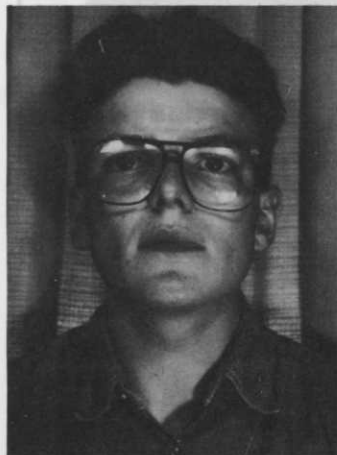
DAVID GOLDING

Nominated by Warwickshire College of Agriculture

Dominic has been training as a greenkeeper at Warwickshire College for the past three years, having decided to enter this career via a YTS Scheme initiated in 1986 by the Belfry Golf Course under the leadership of head greenkeeper, Derek Ganning. Dominic has shown great initiative and a positive attitude to his training programme, resulting in him being awarded the SISIS Tankard as outstanding student in his first year.

On-the-job experience has been gained at the Worcestershire Golf Club, one of the oldest in Hereford and Worcester, dating back to 1879.

The current course is more recent, placed on the lower slopes of the Malvern Hills, and it is here



DOMINIC MOORE-CORRY

that Dominic is making his mark, showing an outstanding enthusiasm and commitment of which Club Secretary Mr Scott says the membership is well pleased.

It is equally clear that Dominic has benefited enormously from training received under head greenkeeper, Alan Cox.

His education course was City & Guilds Greenkeeping and Sportsturf Management, Phase II.



SIMON FEARNLEY

Nominated by Hampshire Sparsholt College

Simon is a working member of the Wentworth team of 22 greenkeepers, all of whom strive to maintain this championship course in top condition. His hobbies, naturally enough, include golf, but he is also interested in watching football and in playing cricket. In 1978 he played for the Surrey Second Eleven and in 1979 played as a professional for Worcester during the Summer season. He now coaches juniors in the game.

At present completing his final year at Sparsholt, his Tutor, Deputy Head of Agriculture Bob Young said, "This has been a good course and choosing just one individual was difficult. However, I could not fail to be impressed by Simon's enthusiasm and dedication to greenkeeping, coupled with his willingness to take an active part in every aspect of the course."

His education course is City & Guilds Greenkeeping and Sportsturf Management, Phase II.

Nominated by Cheshire College of Agriculture

Mark is another of those fortunate enough to have been weaned on a greenkeeping diet, having started as a fourteen year

old helping his father at the Barons Hill Golf Club on the Isle of Anglesey. By the age of sixteen he was a full assistant to his father, spending two useful and fulfilling years under his father's direction.

At aged eighteen he was appointed as head greenkeeper of a Llangefti course under construction and learned a great deal about sand construction, together with management experience of a new golf course.

During his last two years at College he has found the instruction both interesting and informative, being able to marry theory with practice, the technical with the practical.

Recently Mark has taken the appointment of head greenkeeper/course manager to a multi-million development in mid-Cheshire, where he will oversee a new development designed by Donald Steel and constructed by Brian Pierson.

His education course was City & Guilds Greenkeeping and Sportsturf Management, Phase II.



MARK PROCTOR

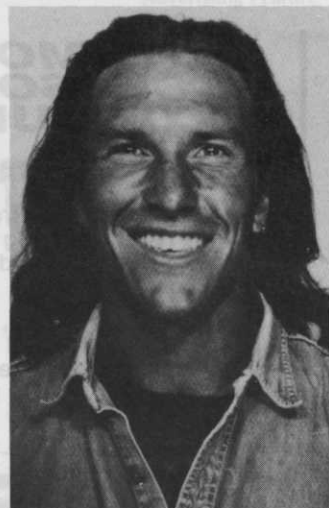
Nominated by Somerset College of Agriculture

Guy is a physical fitness exponent, being both a fell and road runner and a devotee of the outdoor life. It is not surprising, therefore, that he should have found greenkeeping more to his liking than his earlier career, in which he was apprenticed into printing. Indicative of his application to study is seen though, for he passed City & Guilds Printing at distinction level.

Course Tutor, Nick Rigden, had some glowing things to say, indicating to us that he holds Guy in high esteem and considered him to be a prime candidate for honours — both practical and educational — praise indeed!

Guy has been at the Bath Golf Club for three years now and is assistant greenkeeper at this busy 109 year old course, with 670 members. We understand they are as proud of him as they are of their beloved course — which again is praise indeed!

His education course is City & Guilds Greenkeeping & Sportsturf Management, First year Phase II.



GUY WOODS

Nominated by Langside College

Third year student Donald MacLean has been training at Langside for the past three years whilst maintaining solid greenkeeping work contact and experience at the Glasgow (Killermont) Golf Club and its sister club Glasgow Gailes.

His Head of Department, Mike Starbuck speaks with such enthusiasm of Donald's standards of excellence, praising him for his ability to tackle problems, tasks and projects with skill and good humour — excellent combinations! In summarising, Mike Starbuck says "he is indeed a worthy nominee for this award", a statement which is backed up by all who know and work with him, student and staff alike.

Quite apart from his passion for golf Donald enjoys and excels in soccer, swimming and other water sports. He's ambitious too, with a long term aim set toward Course Management at St. Andrews, something the staff at Langside are happy to nurture and endorse.

His education course is a Scotvec National Certificate in Greenkeeping.



DONALD MACLEAN

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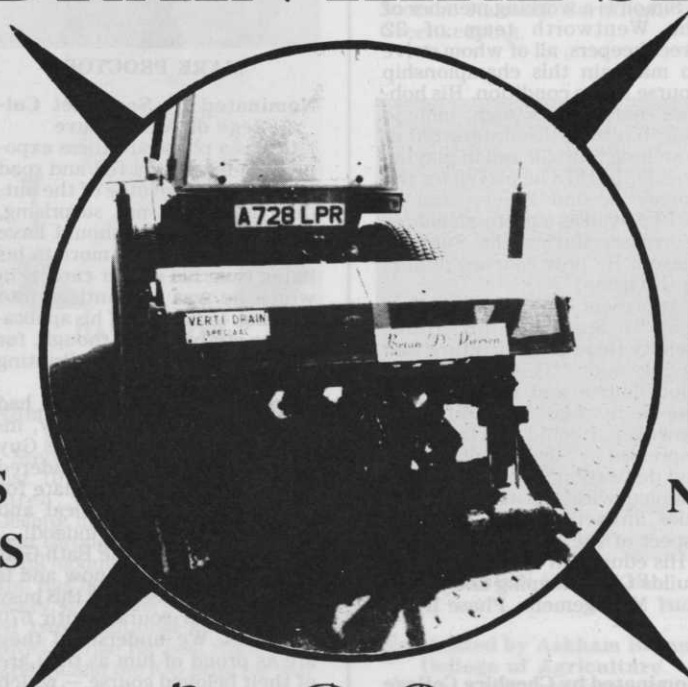
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Landed Interests

There is a definite and dramatic re-awakening in the Western Hemisphere generally, and here in Western Europe in particular, of the importance to us all of our environment.

The 'Green' brigade, currently massing as a vocal political force, will continue to serve as the alter ego to government, local authorities and private estate owners. This conscience in turn is having a positive effect on both urban and country landscape and the affinity between modern man's leisure needs and his social desires.

This new emphasis on the land, its utility and its shape, is not yet anywhere near boom proportions generally, but in golf the demand is staggering. The huge army of nearly 3 million golfers is having the effect of wearing out – and fast – many existing courses, especially those in poor condition. The perceived general consensus is for 500 new courses in the UK within the next 10 to 15 years; the demand in other green based sports and activities will follow suit.

This first advertising feature in Greenkeeping Management has been superbly supported by 17 organisations, from the biggest to the smallest, all of whom have an interest in landscaping and construction machinery.

This advertising feature is supported by a cross section of British companies who are all expanding and progressive organisations. Their support of this first annual feature is much appreciated. Our readers are assured of quick responses if they require further information by completing the reply card.



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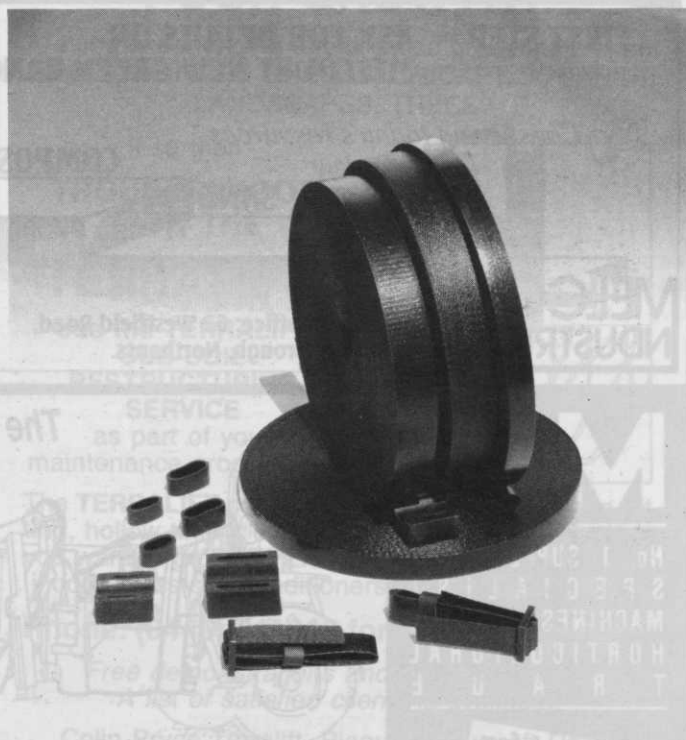
Kenyon Strapping

Kenyon Tree Strapping is a specially developed product unique for this application which has been supplied to the Department of Transport, the Forestry Commission, Metropolitan Landscape Departments and Landscape Contractors, for many years.

It is manufactured from an extremely strong, hard wearing fabric which is then given a special protective PVC coating. The construction and finish of Kenyon tree strapping make it tough but attractive in appearance, unaffected by severe weather conditions and not easily vandalised.

Spacer collars made from extruded PVC, together with moulded rubber spacer blocks, are available for all qualities of strapping.

Continued on page 26



Kenyon Tree Strappings.

Melcourt

On most golf courses, the pathways which connect green with tee present a special problem to the greenkeeper. Concrete, tarmac, and even gravel will either damage the spikes worn on golfers' shoes or at least cause undue wear.

Neither are earth pathways the answer, as these erode far too quickly and are often quite impassable during the winter. Increasingly, the solution to this pathway problem lies in the use of a chipped wood or stone drainage base, topped with a layer of wood fibre and then consolidated to form a durable and consistent surface.

Wood-based products provide important advantages for this type of application.

The material's excellent drainage characteristics prevent mud from splashing over trolley wheels or being trampled into the club house. They are also environment friendly and blend in beautifully with natural surroundings. They are easier to lay, and can always be lifted and re-sited should the need arise. Maintenance demands are minimal, too, usually entailing just the odd topping-up. Finally they will not damage stray balls with no dangerous bounce such

as that associated with concrete.

Ornamental mulches for flower borders around club house and course entrances protect the soil from temperature extremes and weeds. Bulkier conifer bark mulches are used for larger planting beds and shrubberies, and composted bark soil conditioners will enrich planting areas and greatly improve all round fertility.

Melcourt's products include Ornamental Bark Mulch, a long lasting mulch of attractive appearance which is primarily intended for decorative planting sites. For pathways, Walk Chips is a durable loose fill surface which is laid on a drainage base with a geotextile separator for permanent installations.

New products include Forest Biomulch, an economical surface mulch for larger scale tree and shrub plantings with a high organic content.

All Melcourt products are delivered on a national basis in either bagged or bulk form, with 'walking floor' trailers available for difficult sites or where storage space is at a premium.

For further details and a copy of a four page colour brochure, Year Round Excellence, contact Melcourt Industries Ltd at Three Cups House, Tetbury, Glos. GL8 8JG. Tel: 0666 502711/503919.



Instant shade with the Vermeer TS-50M treespade.

Landscape and Leisure

Landscape and Leisure Ltd, the recent addition to the William Sinclair Holdings plc Group, has been established to offer a total package of raw materials to the landscaping and amenity markets.

Utilising in-house raw materials, Landscape and Leisure will be offering an extensive range including: woodchips for walkways, mulches for general

landscaping, sedge and sphagnum peat, spent mushroom compost and topsoil.

Whilst looking to offer an extensive service to the landscape and amenity markets Landscape and Leisure will also offer an extensive range of products suitable for the equestrian market.

For further information contact: Landscape and Leisure Ltd. Tel 0522 537561. Fax 0522 531609. Telex 56367.

Continued on page 29

IT'S ALL A QUESTION OF TAKING THE RIGHT STEPS

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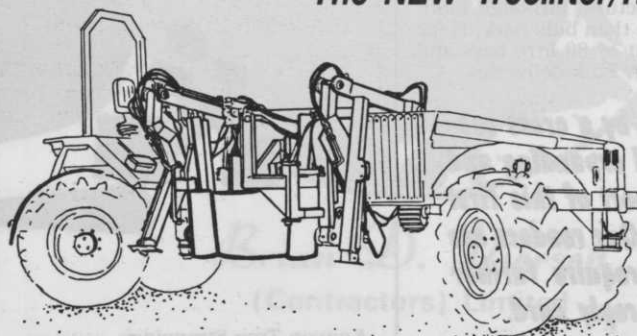
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MJF

No. 1 SUPPLIERS OF
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HORTICULTURAL
TRADE

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Cards!

The NEW Treelifter/Rootballer

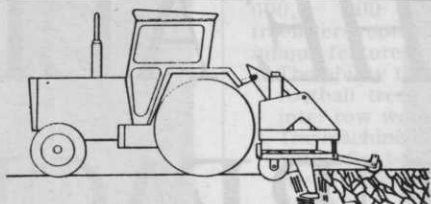


The Van Dam Damcon KLR treelifters will lift and rootball trees with up to 1.2m rootballs. Blade sizes: from 40cm upwards. Self-propelled or tractor-mounted versions available.

42

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If you are interested in any of these, or any other sports turf related service, please contact:

Paul Wright,
Aeration & Drainage Services,
20 Westminster Close, Eastbourne,
Sussex, BN22 0LQ.
Tel: Eastbourne (0323) 506725

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1 Ryan Greensaire Hollow Tiner

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Landscaping/Construction

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All our bark is processed in the UK to ensure a clean, easy to use product that is kind to the environment.

We offer a complete range from landscaping barks that are aesthetic and reduce chemical costs; to economical safety barks for play areas.

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44

COMPACTION? POOR DRAINAGE? POOR GROWTH?

Are you experiencing any of these problems on your SPORTS FIELDS, GREENS, CRICKET SQUARES, LANDSCAPES, TREES?

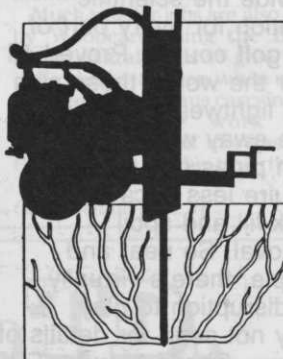
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as part of your
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The TERRALIFT compliments Verti-Draining, deep slitting, hollow tining, etc in those problem areas where you want to go **DEEPER** (30") The TERRALIFT also incorporates soil conditioners and root feeds trees.

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Free demonstrations and site visits given.
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Colin Pryce Terralift, Piaque, Crowcroft Road,
Nedging Tye, Ipswich, Suffolk, IP7 7HR.
Fax: (0449) 741012.

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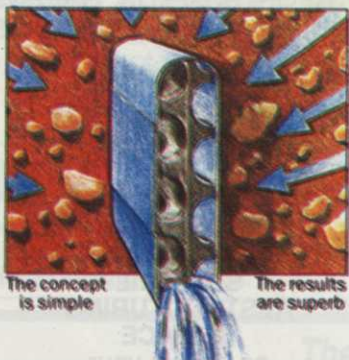


"Remember how you'd have had to play that shot before the club had that neat drainage put in?"

There's no bigger headache than poor drainage for a greenkeeper. The effects are disastrous for members. The cure can be chaos for the club.

But now Fin Drains provide the scientific solution for every part of the golf course. Proved all over the world, these slim and lightweight drains take away water faster than pipes can. They require less excavation, back-fill and spoil removal. So neat and simple, there's virtually no disruption to play.

Why not send for details of our Free Drainage Survey
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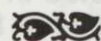
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28 Greenkeeping Management

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A MEMBER COMPANY OF THE WILLIAM SINCLAIR HOLDINGS GROUP



August 1989



The Damcon KLR 1200 tree-lifter/rootballer.

Golf Landscapes Ltd

Golf Landscapes Ltd have the reputation for technical expertise and quality of workmanship. They have a highly experienced workforce and a modern fleet of specialist machinery capable of undertaking the most complex of constructions, including long term maintenance of golf courses following construction works.

Golf Landscapes also offers a turnkey design and build approach, a service of site appraisal and feasibility study for new sites in conjunction with leading European golf course architects.

Golf Landscapes Ltd have commenced construction works to three new golf course projects recently awarded to the company at Graveley, Hertfordshire, Brampton near Huntingdon and at Kirby Muxloe.

Jonathan Gaunt, a Leeds University graduate, has recently joined Golf Landscapes Ltd as a designer to enable the company to continue its design and construct service.

The company operate extensively in the provision of playing fields and sports grounds for both private and public sectors throughout the UK. Much work

Van Dam Treelifter

The Van Dam Damcon KLR 400, 600, 800 and 800+ treelifters/rootballers have two unique features:

1. The ability to select, lift and rootball trees sideways, i.e. inter-row working ability.
2. The machine lifts the rootball with a flat base, thus enabling the lifted tree to stand up on its own.

There is a self-propelled model with a choice of blades (40, 60, 80cm), and a tractor-mounted version is available with the option of being fixed fast or on a 3-point linkage.



has centred around new playing field construction for local authorities at schools.

Golf Landscapes Ltd design service and construction capability is based upon proven methodology and backed by scientific appraisal.

The company is a full member of the British Association of Landscape Industries.

Of the sportsground and golf courses Golf Landscapes Ltd construct, the majority as an integral part of the contract, require a period of maintenance upon completion of construction works. Over the years Golf Landscapes Ltd have been involved in many small projects and have established their own team of experienced groundsmen and greenkeepers, capable of maintaining all types of sports turf, from the golf green to winter sports pitch.

In recent years Golf Landscapes Ltd have developed operations within this division of the company to undertake contract maintenance. Most recent work includes the maintenance of the Waterside Farm Golf Course, Canvey Island, Essex, for a five year period to 1993. The work comprises of all routine and specialised greenkeeping operations.



Woodcare deal with trees – the bigger the better!

Woodcare

Trees are one of the most important assets of a golf course. On a parkland course individual trees are of great value. On woodland courses it is the number and density of trees that gives the course its character. Different approaches to maintenance are therefore needed. As trees grow, thinning is required as fairways and greens suffer badly from shade and micro climates that stifle growth. Thinning is particularly vital in densely wooded areas.

Golf course fairways, greens, woodlands and trees are inextricably linked and cannot be separated. The health of one affects the other.

Woodcare specialises in golf course maintenance. Over the past ten years golf has become a large industry which is leading to

ever more sophisticated maintenance techniques. Pressures on a golf course have grown and the greenkeeping work volume has increased considerably. Trees and woodland may often suffer as a result and only get attention in brief slack periods.

With previous golf clubs, Woodcare has set up five year maintenance plans in close consultation with the greenkeeper and greens committees, it has then carried out these maintenance plans.

Much smaller jobs are also done by Woodcare using the firm's arboricultural skills to give trees individual attention when and if the need arises, thus carrying out all off course work that greenkeeping staff have neither the facilities or the time to do.

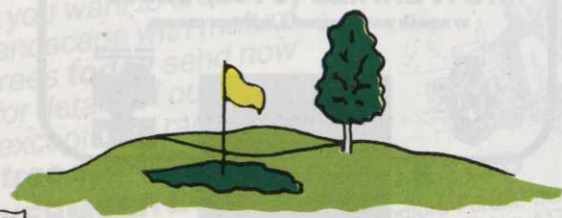
Continued on page 31

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NEW! WESSEX BULK BARK BAGS



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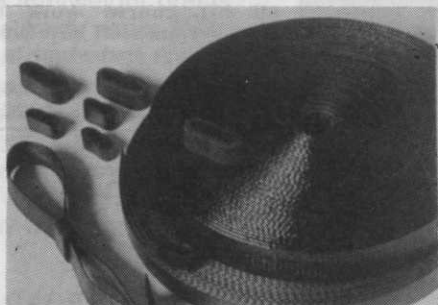
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- ★ The most durable tree strapping on the market.
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- ★ Our service is your guarantee.
- ★ Kenyons offer next day delivery service.
- ★ Suppliers to the Forestry Commission, Metropolitan Leisure Services, Landscape Departments, Landscape Contractors, Landscape Architects.

Manufactured from an extremely strong hard wearing webbing with special protective PVC coating. It is tough, not easily vandalised, and smart in appearance.



For further information, please contact:

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British Association of
Landscape Industries



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woodcare

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- ★ Specialist in golf course maintenance.
- ★ Character of each golf course always of prime importance.
- ★ Close consultations with the greenkeeper and greens committee.
- ★ Individual trees attended to.
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ICI Agrochemicals

All the skill and effort in producing some of the finest putting surfaces in the world of sport today is not applied so readily to the off-course areas from which many club visitors take their first impression.

There are many horror stories told by visiting societies of weeds growing around the club house, through cracks in paths and drives and invading the car park; of ornamental gardens and rose beds covered in bugs and blemishes and hastily arranged beds sparsely planted out with straggling flowers. It is this off-course area that often looks neglected when compared to the results of on-course activity.

Is the reason a confusion of roles and responsibilities between the Greenkeeper, Committee, Secretary and owner? Does the Greenkeepers responsibility end when he steps off the 18th green. Is the Secretary too busy or preoccupied with playing times and members' subscriptions? Whatever the reason very little attention is given by many clubs to the landscaping aspects of the club house areas, car parks, drive and shrubberies.

ICI Professional Products have a range of products that can provide a full programme of weed, pest and disease control as well as landscape enhancement products without having to search through the many catalogues on the market.

Weed control on the off-course grassed areas can be obtained through the use of Super Verdone which will probably be in the chemical store already.

Preventing and treating weeds on paths, around buildings, in car parks and on drives does not present a difficulty either providing the right product is selected for a specific problem. ICI have a range of products available to provide control of weeds in all situations from safe selective control in all ornamental planting situations without damaging plants, to total weed control on non planting areas without risk of "creep" into the grass edges.

"Speedway" provides immediate knock-down of weeds and grasses that leaves behind no

harmful residues and is very useful for treating weeds in bunkers, as any sand knocked out onto the turf will not contain weedkiller.

The application to ornamental plantings of both "Soltair" and "Speedway" can be followed by the laying of ICI Forest Bark and Ornamental Chips to add a highly decorative finish to shrub and rose beds. Both products will suppress weed growth and retain soil moisture and can last for up to three years when used as a mulch.

A further product from the ICI range can be used to provide total control of unsightly weeds. "Groundhog" differs from the two previous herbicides in that it will kill all vegetation it comes into contact with and is therefore very useful for long term weed control.

Completing the off-course manicure is "Casoron" G-4, a powerful residual herbicide which controls broad leaved weeds and grasses around established roses, ornamental trees and shrubs.

Terralift

The Terralift is doing its own round of golf; relieving subsoil compaction on golf courses around the country.

The Terralift drives a hollow probe into the soil up to a depth of 30" and releases a charge of compressed air at a pressure of between 100 and 300 psi via three holes at the base of the probe. This release of air causes the soil to heave and fracture while leaving the surface relatively unaffected. At the same time products can be distributed through the soil with each charge of air and normally a soil filler and a dried seaweed soil conditioner which expands on hydration is injected. These help to keep the fissures created by the Terralift open. To stabilise the probe holes coarse grade, Fullasorb or Perlag are used as a back fill.

The applications of the Terralift on golf courses are many and varied to include: old greens, poorly constructed new greens, thatch control, tees, wet areas on



The highly mobile Terralift aerator.

fairways and waterlogged bunkers.

The 350 kg pedestrian operated Terralift can also inject other therapeutic products, pesticides and fungicides. Good results have been achieved by the Terralift in STRI trials on the control of type 1 fairy rings by the injection into the soil of fungicides.

Colin Pryce Terralift has recently purchased one of the latest Terralifts with an increased output. A second Terralift is now being operated by Richard Shipp and Partners of Ely. The two companies work in close co-operation with each other and aim to continue giving an efficient soil restructuring service throughout Great Britain. Free demonstrations are offered and wherever possible a site visit is made in order to give an quotation.

Contact: Colin Pryce Terralift, Crowcroft Road, Ipswich. Tel and Fax: (0449) 741012.

Vermeer at Longleat

A major tree shifting operation is currently under way at Longleat in Wiltshire as part of the development of a new children's

play complex due to the opened soon.

130 semi-mature trees in all – a mixture of native English species – are being lifted from the nearby estate forests, transported and re-planted by a Vermeer TS50 Tree Space, owned and operated by Dorset tree surgeon Keith Banyard.

The stately home's new 3-acre attraction is designed to resemble a medieval castle, complete with ramparts and towers, and larger trees rather than saplings were preferred to complete the landscape. According to Longleat's Head Forester, Mr. John McHardy, ten times the number of saplings would be required to achieve anything like the same effect.

The tractor-mounted TS50, supplied by sole UK distributor Vermeer Equipment (UK) Limited, has four hydraulically-operated steel spades and is capable of moving trees of up to five inches in diameter. The resulting root ball – 50 inches across and 48 inches deep – ensures the best chance of survival even where trees have to be transported some distance, in this case about two miles.

For further information contact: Vermeer Equipment (UK) Limited. Tel: (0258) 54226.

Continued on page 32

IT'S AS EASY AS ONE...TWO...TREE

If you want to create a landscape with mature trees **today** send now for details of our exceptional range of tree spades.

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You can do it with
Vermeer

Greenkeeping Management 31

Our bite is as good as our bark



ICI were pioneers in the introduction of bark to the landscape garden. It transformed the look of beds and borders, conserved vital moisture, suppressed weeds and brought safety to play areas. But 'Forest Bark' products are only part of the modern range of Professional Products. They have some pretty lively partners:

SITE PREPARATION

'Speedway' A contact herbicide that kills all broad-leaved weeds and grasses. Widely used pre-rotavating or as a clean-up prior to planting out and reseedling.

'Enmag' A unique granular compound fertilizer (4:19:10) that provides plant nutrients in a slowly soluble form throughout the growing season. Applied to the top soil or to the root area when planting trees and shrubs.

TREE & SHRUB PLANTING

'Planting Compost' The complete quality planting medium based on sphagnum peat, enriched with 'Enmag' and fritted trace elements. Formulated to supply the vital nutrients needed to build new root systems and encourage establishment.

'Forest Bark' Composted Bark A soil conditioner, planting medium and mulch. Lasts at least 3 years in the soil and provides nitrogen over an extended period.

SITE MAINTENANCE

'Forest Bark' Ornamental Chips Long-lasting decorative bark for shrubberies, beds, paths and forest walks. Lasts for 3 years when used as a mulch and provides a resilient springy surface in play areas.

'Casoron' G, 'Casoron' G-4 Residual weedkillers for total weed control in non-crop areas, and for weed control around trees, roses and certain ornamental shrubs. Granular formulation makes application simple and convenient.

'Groundhog' A total herbicide for use on paths, drives, play areas and waste ground.

'Nimrod'-T The professionals choice for the prevention and control of mildew, blackspot and other diseases on roses and ornamental plants.

The Landscape Range

from



Professional Products

TEL: (0252) 733919

'Speedway', 'Enmag', 'Forest Bark', 'Groundhog' and 'Nimrod'-T are trade marks of Imperial Chemical Industries PLC. 'Casoron' is a trade mark and product of Duphar B.V., Weesp, Holland. 'Speedway' contains paraquat. 'Casoron' G and 'Casoron' G-4 contain dichlobenil. 'Groundhog' contains aminotriazole, diquat, paraquat and simazine. 'Nimrod'-T contains bupirimate and triforine. READ THE LABEL BEFORE YOU BUY. USE PESTICIDES SAFELY.

Axba Tipper

The 'Tippit' is ideal labour saving equipment for landscapes, golf clubs, parks, sand & gravel producers, builders, farmers, market gardeners, vehicle hire, stables and local authorities for all their tipping requirements, as it converts a standard pick-up truck into a tipper truck.

The installation of the 'Tippit' body consists of removing the tail-gate and drilling four holes. (Approximate fitting time 1 hour). The body protects the pick-up bed and hydraulics from damage, and replacement of the tail-gate adds higher resale value if transferring the 'Tippit' to another vehicle.

The 'Tippit' is made of heavy duty steel welded construction and protected with an enamel finish to match the colour of the pick-up. It is designed to fit all pick-up type vehicles marketed in the UK and Europe.

The 12 volt power unit and hydraulic cylinders are supplied by a leading British hydraulic manufacturer, and fully warranted for one year, with push-button switch operated from the cab, or with a wandering lead to the rear of the vehicle for measured control of the 40° lift. This is useful if using the vehicle for spreading sand, grit, salt or grass seed while in motion.

For further details about any of the companies advertising in the magazine or mentioned in Product Focus, simply circle the number that appears within the 'flag' on the Reply Paid Reader Service Card and send it off to us.

Brian D. Pierson (Contractors) Ltd

Brian D. Pierson (Contractors) Limited was founded in 1977 and has been responsible for the construction and alteration to over 80 courses, including alterations to most of the Open Championship venues.

This Wimbourne based company are presently operating major construction and alteration projects on 12 golf courses at St. Andrew's, Bodmin, Goodwood, Wrangaton, Chichester, Mill Ride, St. George's Hill, Northampton, Forest of Arden, Tarporey, Dalmahoy and Chantilly. This is in addition to other specialist maintenance and sports ground construction projects.

The company is now well established within the industry, offering experience combined with proven performance.

Both the landscaping, sports ground section and the specialist maintenance side of the company have expanded rapidly with three Captain Vertidrons.



The practical efficiency of Bark Products is evident.

Aeration & Drainage Services

Aeration & Drainage Services was formed in 1984 by Paul Wright, who was at that time Head Greenkeeper at Dale Hill Golf Club, Ticehurst, E. Sussex.

Starting with one tractor and one Verti Drain, operated by Paul himself, the business has gone from strength to strength. At present there are five Verti Drains and other machines such as a Wizz Wheel Trencher with high level conveyor and back fill hoppers for all kinds of trenching, drainage systems and sand/gravel slits. There is also a Twose turf conditioner, soil ameliorator (Robin Dagger compressed aerator), top dressers and over seeders.

Paul says that with more and more demands being put on the Greenkeeping staff, as a result of the ever increasing amount of play, there is less time for clubs to carry out their own construction/alterations. It is a natural progression for Aeration & Drainage Services to follow and it makes good sense to carry out construction work during the

summer months, meaning a project taking months over the winter period (when staff are available and weather conditions permitting), can be completed in a matter of days or weeks.

S.C.C.

Steven Curtis, emphasised the importance SCC attach to the benefits of proper aeration. "We have invested heavily in marketing the dramatic and immediate effect which the Verti-Drain system can provide. The combination of soil penetration and the breaking up of compaction without damage to the turf gives us the opportunity to treat golf courses, greens, fairways, bowling greens, cricket pitches and outfields, soccer and rugby pitches, race courses, tennis courts, parks and lawns.

In the 9½ years since SCC Lands Maintenance was born, the company have developed a comprehensive range of services including golf course construction, maintenance, alteration and drainage, plus verti-drain hire.

Bark Products

Bark Products (H&L) Ltd. has developed grades of bark to economically meet the differing requirements of individual landscaping projects. The company also supply graded bark required for more ornamental uses, such as the decorative enhancement of borders, rose/shrub beds and play areas as a safety surface.

Bark Products have five production sites, ensuring alternative grades from localised sites and that the haulage element of the total cost is kept to the minimum, whilst at the same time matching the landscapers main quality requirements.

As the uses of bark have become firmly established over the last ten years, Bark Products has also concentrated its efforts into not only offering the total range of products but into ensuring that its customer service is maintained at the highest level.

For further information contact: Bark Products (H&L) Ltd. Tel 0522 537561. Fax 0522 513609. Telex 56367.

Brian D. Pierson has a reputation for service through mobility.





So . . . you want to build a golf course?

Mel Lucas Jnr, a past President of the G.C.S.A.A. and a highly skilled and qualified golf course superintendent, took on the mammoth task of building a golf course in environmentally sensitive Massachusetts. This is his story . . .

It was Jim Snow who coined the phrase 'So . . . you want to build a golf course?' as the title for a number of speaking engagements which I have given over the past year. In these I've set out to explain to my fellow superintendents the trials and tribulations I've encountered in my task of building a nine-hole golf course in an environmentally over sensitive state.

In the U.S.A. each state has its own environmental agency. In Massachusetts ours is called the Department of Environmental Quality Engineers (D.E.Q.E.). Within the state there are many towns that set up their own environmental agencies, known as Conservation Commissions (ConCom).

Ideologists at work

The state agency is headed by very knowledgeable people. However, as we go down the ladder, we find the field teams made up of young people who have been formally educated in botany. Many have been trained through the Peace Corps in some of the most depressed countries in the world. Most are ideologists.

The ConCom is made up of local townspeople of varied occupations and they serve as volunteers. There is a salaried ConCom officer, who generally comes from the same background as the state agency people.

The state agency is classic bureaucracy, being top heavy with

paper work and, at lower levels, few decisions can be made. This group will only come if it is called, with the call usually coming from the ConCom officer.

The ConCom is the pivotal group, often the only way a town can control its growth with regard to housing, industry and, you've guessed it, golf courses.

The third party is the chosen engineering company, with every proposal submitted having to be drawn up by such a company. Proposals are called orders of conditions and it is vital to work closely with the company to ensure correct working of the documents. To allow an engineering practice to draw up proposals without the close consultation of golf course architect, course builder and greenkeeper could spell disaster, with land lost and construction costs rising to an astronomic figure.

Two years and £250,000 later . . .

The developer should anticipate spending not only a quarter of a million pounds, but also two years in getting final approval before the first shovel has entered the soil!

Our problems began in August of '86, during an inspection of a pond being excavated. A ten acre Red Mample swamp was cleared, stumped and excavated to create a six acre pond at

*Island Green construction.
The 7th at Round Hill.*

a depth of six feet for irrigation. There was to be an island green, the muck soil being used, mixed with sand, for greens and tees and as material to build an earthen dam and to enhance several home sites. The swamp had a small stream running through it, exiting into a salt water marsh.

Precautions were taken, with a silt fence and hay bales strung out on the marsh side of all excavation. The stream kept flowing and excavation was carried out on both sides of it.

During excavation a dock builder was jetting down pilings for the green and the water was coffee coloured.

Never trust a ConCom man

Enter ConCom inspector, who thought there was insufficient protection to ensure that sediment would not flow into the marsh. Here we learned our first lesson . . . NEVER trust ConCom inspectors! His visit seemed favourable enough, walking the site and talking positively about the project, whilst indicating things he wanted done, such as more hay bales placed in streams, which we did. He left and we felt O.K. But the following morning he had ordered a 'cease & desist' until an inspection was made and they had reviewed all of our files.

There were no options. Work came to a halt, the local contractors pulled out in favour of other jobs and our wetlands work ceased.

The irrigation system was being installed by my crew, working in grassed fields. We did not plough the whole place under, but I was given orders of conditions and a go ahead. But 'they' failed to give me orders for what 'they' wanted before trenching. During an inspection, and well after two thirds of the mains were underground, we were cited another 'cease & desist'. Reason? We had not placed hay bales or silt fence. We were not in wetlands, but by ConCom reckoning anywhere within 100 feet of wetland must be treated as wetland.

Only after the purchase of 3,000 feet of silt fence and hay bales, to be placed along the sensitive areas, were ConCom satisfied and the 'cease & desist' for irrigation was lifted. To place the silt fence in you must dig a 3 inch trench so the material will form an 'L', then the bales must be set into this 3 inch depth - all to be dug by hand.

During this time the spill way and stream were blocked off. Then the rains came and filled the whole area with water.

We now had a major problem, with



Drainage Piping. The 7th at Round Hill.

no solution forthcoming from ConCom. Thus the engineers had to come up with answers and I discovered that this group were short on experience and long on toro manure. Finally they found the chemical that would clear the water problem. First hydrated lime was poured into the pond - from boats - to raise the Ph of the water, followed by aluminium sulphate. In two days the pond was crystal clear, ConCom were happy and allowed us to open the spill way. Water was down, contractors came back and excavation was completed. The pilings continued and the coffee water appeared. Throughout this time we had a daily visit from the ConCom inspector, who walked every inch of the development site and questioned every aspect of our work. Finally in October he brought in the DEQE. The project was given another 'cease & desist', spill way closed.

We were back to the coffee water again, with only about 25 feet of the piers left to complete. An access road was still in place but the DEQE individual was concerned that pressure treated pilings might affect the salt water marsh and that the chemical used in the pond would also do harm. The engineers got busy, though only through research material which the pressure treated wood institute had already documented.

14 days to finish

Winter arrived and with everyone urging the faceless ones that we be allowed to finish the job, before the spring thaw and rains, we were given

14 days to complete. Late February saw all of us putting in drains to the greens - stone, sand and mix - leaving two loads extra for repairs. The last pilings were in, an access road excavated and teeing grounds built. Ten days of ten degree weather & done!

Came the spring, together with torrential rains. None of the greens had been seeded, being still under 'cease & desist'.

Erosion was doing its environmental worst, all due to the environmentalists. The pond filled and became a major concern to the dam. A pump was brought in and 1,400 feet of 6 inch PVC pipe took the water off into a grass meadow to cleanse it before it entered the marsh. The issue of the chemical had still not been addressed by the engineers and I was eventually drawn into their laxity and despair, requesting that I should do the sleuthing for them on chemical information. Blessed with good colleagues and university turf specialists, I was eventually directed to Stuart Cohen in Maryland. Ten days of direct involvement with him brought forth the required documentation and a clean bill of health from DEQE. The 'cease & desist' on the pond was lifted and

water - glory be - was allowed to travel its own course.

But, throughout the period of inactivity the pond had been pumped dry, leaving the banks open to erosion and we were forced to lay in a wood fibre matting throughout.

'Cease & Desist' - again

Work commenced on erosion repairs and by mid-summer seeding of greens and tees on seven holes had taken place, the remaining two remaining under yet another 'cease & desist'. The pond had failed to fill to capacity and the thought of seeding fairways worried me, fearing the water requirement shortfall. We hydroseeded in February 1988 and with the final two holes released from ConCom jail we completed seeding in August.

Now we are growing & mowing on this Trent Jones links on the peninsular into Buzzards Bay. On his second visit, observing that gimmick golf in the shape of an island green had arrived, he turned away with a grin, saying: "No doubt about it, this is a LUCAS course." For the 80 residents at Round Hill it represents privacy and a quality of life that they feel is well worth their investment.

The cost of course construction was around 1¼ million pounds, though engineering and other fees had to be quite enormous and over this figure - I don't know just how much and the developer hasn't told me.

I've enjoyed the whole exercise, seldom feeling great pressure, thanks to my background of 25 years as a greenkeeper on Long Island. I've pampered to aloof self proclaimed agronomists and held my own with over indulgent egocentric chairmen in the past, and have a sharp edge when it comes to pressure. Building a golf course is - ahem - a piece of cake...

But there is a final unsolved problem. Our illustrious engineers wrote into an order of condition that no pesticides or fertilizers may be used on over 60% of the golf course. The amendment has been made - with my wording - and now we wait, and wait, and wait...

MEL LUCAS Jnr.



The Pond at its lowest level.



Taking of turf samples for assessment, part of the turfgrass cultivar evaluation programme.

The Sports Turf Research Institute, affectionately known as 'Bingley', is sixty years old. At an Open Day a group of sportsturf journalists and agronomy experts were privileged to see at first hand the comprehensive nature of the work carried out at this nerve-centre of our industry. For your Editor it was a delight, though clearly a single day was insufficient for the eye and mind to absorb all that is taking place. I would have been happy to spend a further day in the library alone, for this fine collection, ably masterminded by Roger Evans, is a wealth of information. I content myself in the knowledge that every worthwhile piece of literature pertinent to turf grass and agronomy is preserved for all time. I am reminded of the A.A. advertisement, which could apply equally to STRI, "I don't know the answer, but I know a man who does!"

Though sixty years old, STRI is as up to the minute as tomorrow, staffed as it is by young scientists and technicians who breath enthusiasm and dedication into their every action.

One such place is the Biology Laboratory, where the identification of diseases is an essential part of the disease control programme. Identification techniques take many forms, and I was shown the more common ones. Visual symptom observation is a rapid method when seen through the eyes of a skilled observer, though it cannot be used in many situations due to similar symptoms being produced by different diseases. A more time con-

suming method is where a fungi which causes disease is isolated and grown in a dish, the characteristic spores then being identified. Or an examination may take place under microscope, the spores which may cause disease often being found in grass tissues when observed under high magnification. Finally, there is a biochemical method in which each turf disease reveals its biochemical features which can be detected, using laboratory test kits. This method is both rapid and reliable.

Over-watering has probably been one of the main causes of deterioration of British golf greens. The effects of varying the water supply to a green cannot be considered in isolation and any attempt to study this must take into account factors which will effect the water availability to the grass. Foremost amongst these is the construction of the green and the material used as a rootzone. This in turn will have a profound effect on fertilizer requirements of the green and an experimental construction of three different types is one that I found quite fascinating. The types undergoing test are pure sand, the USGA mix, a mixture of medium sand and peat, and the local top-soil. Irrigation, nitrogen and phosphorus supplies are to be varied in the hope that the optimum requirements for each construction may be found. Early days yet, but it is hoped that the results of this and fertilizer experiments may provide the basis for the creation of a management 'key' to assist greenkeepers in dealing with specific problems pertaining to green management.

I have never seen so much experimental machinery, much of it developed by the STRI boffins, and none more delightfully Heath Robinson — though highly effective — than

'BINGLEY' ... sixty glorious years

David White reports on 60 years of progress at Bingley"...

one for firing golf balls on to greens. It can fire balls at speeds of up to 100 mph and can impart harsh backspin to balls if simulation of, say, a seven iron shot is required. If a turf is to be found that eliminates those tiresome pitchmarks you may be sure that STRI will find it.

Space restrictions will not permit description of the many and varied tests of amenity grass species, wear tolerances or other vital experiments being undertaken. It would take a whole magazine to cover it all. Suffice to say that STRI are doing all that is possible to take greenkeeping safely forward into the twenty first century.

Below: Disease diagnosis of turfgrass specimens by microscopical examination.



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Autumn Maintenance and Fusarium Patch Disease

During the autumn months, greenkeepers are preparing their courses for the rigours which lie ahead in the rapidly approaching winter.

One of the major problems to contend with is the damaging and disfiguring effects of fusarium patch disease. Last autumn few greenkeepers would have predicted the exceptionally mild winter, with the consequence that it was one of the worst for fusarium patch on record. With this in mind it is appropriate to review the cultural and environmental conditions which favour the disease, and to describe the most effective disease control strategies which can be deployed.

Whilst undertaking autumn maintenance there are two key cultural conditions, namely turf surface moisture and turf fertility to be considered, which are important with respect to disease. Regular slitting from late autumn onwards combined with switching helps to reduce surface wetness and will consequently retard fusarium patch (Fig. 1). Fertility during the winter months, particularly with regard to nitrogen also has a large bearing on disease severity.

As fusarium patch disease is

By Dr Neil A. Baldwin

Plant Pathologist, Sports
Turf Research Institute, Bingley

favoured by high nitrogen conditions in combination with cool, wet weather, the most severe disease outbreaks are often seen where autumn fertilisers or top dressing has been applied too late in the season, it can smother the grass and create conditions ideal for disease attack (Fig. 2). Of course, the best time for fertiliser and top dressing will vary greatly according to individual situations, but generally speaking the later the application, the more risk of disease.

It is now standard greenkeeping practice to apply calcined sulphate of iron to turf for its beneficial effects on colour, moss, weeds and earthworm casting. As the fungus which causes fusarium patch, *Microdochium nivale* is most active under neutral or alkaline conditions, sulphate of iron, by acidifying plant tissues and thatch to which it comes into contact will help control the disease. Common greenkeeping knowledge combined with experiments at STRI (Fig. 3) have indicated that the regular use of sulphate of iron, although not as effective as a fungicide, will help prevent outbreaks of disease.

Although probably not needed immediately, stock of fungicides should be checked in the autumn and fresh stocks ordered as appropriate. Once disease occurs its spread can be rapid; valuable time can be wasted in ordering and waiting for delivery of fungicides.

Recent trials at STRI in collaboration with Agrochemical companies have shown that a well timed spray at the first signs of disease can give excellent results (Fig. 4), whilst it is extremely difficult to control established disease.

Comprehensive advice on the use of fungicides for the control of fusarium patch is given in "The use of turf fungicides" and "Fusarium patch disease" in Issue No. 165 (April-June 1989) of the Sports Turf Bulletin.



Fig. 1. Effect of moisture on fusarium patch. The rh turf plug, colonised by fungal mycelium has been incubated in damp conditions for 24 hours.



Fig. 2. Extensive damage by fusarium patch caused by applying fertiliser in early winter. The disease is favoured by high nitrogen conditions.



Fig. 3. Experiments at STRI evaluating liquid and chelated iron products for effects on fusarium patch.



Fig. 4. The centre plot was treated with a systemic fungicide in late autumn. Compare to the extensive disease in the lower plot which was left untreated.

SCOTTISH REGION

The region has had a very busy time of late, with two major competitions held in the space of three weeks.

The **ISEKI** Regional finals were held on May 30th over Glendoch House Golf & Country Club, set in the hills at Langbank and overlooking beautiful River Clyde countryside. Few could fail to be impressed by the views from the course and Gordon Kerr, having recently taken over as Head Greenkeeper from Raymond Day, had prepared the course superbly, a credit when the limited irrigation facilities are considered. Play was, on the whole, of the very highest standard though there were a number of 'no returns' from the class 3 entrants. Our thanks go to **Reekie Plant & Ken Petrie**, and of course, **Peter Powell of ISEKI Tractors U.K.** for all their help and financial assistance, and to **Steven Broad**, the organiser. Everybody had a great day at Glendoch House and the winners are looking forward to the finals at Moor Allerton in October.

The winners were: First Class: C. McKay, Crail Golfing Society (77-8-69); S. Taylor, East Kilbride Golf Club (73-1-72); C. Pearson, Arbroath Golf Club (77-5-72) (B.I.H.); I. Ritchie, Ladybank Golf Club (81-8-73).

Second Class: A. Fraser, Alloa Golf Club (79-12-67); D. Lauder, Douglas Park Golf Club (85-16-69); S. Ross, Kyle & Carrick District Council (87-17-70); J. Coleman, Dumbarton Golf Club (89-18-71).

Third Class: N. Henry, East Kilbride Golf Club (105-25-80); D. Duguid, Westhill Golf Club (107-25-82).

SCOTTISH REGION 18 HOLE TOURNAMENT - 15th JUNE

Over 80 players enjoyed one of our best golf days ever. The weather was quite perfect for playing golf and the setting at Cawder Golf Club was the icing on the cake. Set in a beautiful Estate with large trees and rhododendron bushes in full bloom and water hazards 'a plenty', this was a first class venue. Course Manager, Alistair Connell had reserved the big course for the Championship, which left the Keir Course for his members. Alistair and his Head Greenkeeper, Jim McCormick had their course in great condition as usual with fast greens and some tricky pin positions which made scoring quite difficult, but as usual, the good players came through. The Cawder Clubhouse setting, with three large lounges and dining areas was great for players to relax afterwards for meals, drinks and presentation of prizes. Our Scottish Region Chairman, Elliott Small, along with Cawder Captain John Gourlay presented the prizes to the best players on the day. Our thanks go to Cawder Golf Club for their warm welcome and kindness in giving us the courtesy of the Course for a wonderful day.

The winners were: Scratch: D. Leith, St Andrews Links (70); Best Nett: C. McKay, Deeside Golf Club (78-7-71) (B.I.H.).

First Class: G. Brown, Turnberry Golf Club (73); S. Taylor, East Kilbride Golf Club (74) (B.I.H.); Sullivan, Craigiehill Golf Club (74).

Second Class: J. McKenzie, Renfrew Golf Club (69); S. Melville, Lothianburn Golf Club (71); W. Fletcher, Troon Golf Club (73).

Third Class: S. Harvey, Cawder Golf Club (74); N. Henry, East Kilbride Golf Club (85); J. Wallace, Glenbervie Golf Club (88).

Best Head Greenkeeper: I. MacLeod, Tain Golf Club, (75) (B.I.H.).

Best Apprentice: I. Kerr, Buchanan Castle Golf Club (77).

Best Assistant: G. Paterson, Fortrose Golf Club (77).

CHRIS KENNEDY

EAST SCOTLAND

The annual Summer Tournament was held over Burntisland Golf Course on June 13th and although the event was played in heavy rain the turnout was first class. Our thanks go to the Captain and Council for the courtesy of the course, to Bob and Ray Thomson for the delicious meals and to Head Greenkeeper Norman Wood for the excellent condition of the course.

This is the first time since 1967 that we have played at Burntisland but if comments are anything to go by, we shall return before too long. The lucky (should this read skillful, Ed?) winners were: Scratch: G. Wood, Dunbar. 1st Class: S. Crawford, Ratho Park. 2nd Class: J.W. Neilson, Murrayfield. 3rd Class: A. Nimmo, Alloa. The new member prize was won by D. Easingwood of Dunbar.

Our congratulations go to all East Section players at the **ISEKI** Tournament held at Glendoch House. All of you put up a splendid performance. The qualifier for the finals, A Fraser from Dunbar, goes forward with our hopes pinned on him and our sincere good wishes.

There have been a vast number of changes in the section regarding Head Greenkeepers. Almost every week we hear of a club placing advertising. Does anyone know the reason? Is the pressure becoming too much? Do committees and secretaries have too much to say? There **MUST** be a reason. First class greenkeepers with many years of experience in the field are suddenly out of work or seeking other employment. Could it have something to do with the influence of the Agronomist?

I would like to hear from anyone who can shed some light on this subject.

My own theory, which is shared by many of my older

contemporaries, is the lack of communication between greenkeeper and council. Let them know what you are doing, and the reason why. We must create a climate in the club where all members think of the Head Greenkeeper as the number one person to consult about course matters. We must be seen as capable of managing courses to very high standards if left in control and alone. If we fail to communicate adequately with committees or members, or are subject to constant interference, disillusion and discouragement sets in and by settling for a 'do as you are told' edict one crisis after another will result.

We all know how club politics and politicians lead to disastrous effects on the course; and the politics are not about to go away by themselves. Quite the opposite, they are worsening, with niggardly complaints, vis: not strimming around tee markers. The publicity given to Poa Annua, a weed grass, has made its impact on the club member. What they fail to understand, however, is that **THEY** help to create the problem.

It is wrong to condemn the greenkeeper with 100% poa annua greens when the membership pressure factor of close mowing is constant. Of course we would all like pure fescue greens, but if we are to achieve more than 60% agrostis, spread evenly through the green, we are doing well. The only place where you can achieve more is on limestone heathland and links, both of which are free draining with a high PH factor. It is rare to find it on more acid soils. Agronomists please take note.

WILLIE BLAIR

WEST SCOTLAND

Once again we are into the busy season of endless cutting and watering, applying fertilizers, fungicides etc and preparing for club competitions, and still we find time to compete in B.I.G.G.A. matches.

This years lucky West Section qualifiers to represent Scotland in the **ISEKI** National Tournament are: S. Taylor, N. Henry, D. Lauder, J. Coleman (reserve).

We congratulate you all and wish you good luck.

The Scottish National outing was held this year at Cawder Golf Club in Glasgow, with our section, West Scotland, being the hosts.

Cawder Golf Club were very welcoming and looked after each and every one of us. A special word of thanks goes to the Club Captain, John Gourlay, for his kind words and hospitality, and also to Alistair Connell, the Course Manager, for preparing a course that was a joy to behold and a delight to play upon.

Incidentally, the Captain of Cawder holds Alistair in such high esteem that he provides medication (a special Scottish formula) for him on various tees

around the course!

Thanks again to all at Cawder for a great day. We hope to meet you all again.

Organisation is now under way for the West Section Autumn Meeting at Cathkin Braes Golf Club, to be held on Thursday, September 14th. There will be additional information to follow regarding fees, catering and times. Would all members take note that in order to qualify for prizes in competition they must possess a National Handicap Certificate. If anyone has difficulty with this please contact me on 0786-64098 (work) or 0786-72548 (home). Also in the process of being organised is the Annual Dinner, which was such a success last year. Tickets for this will be on sale from the Autumn Meeting. Do please remember that this popular event will have limited places — popularity has seen to that — and you are urged to buy your tickets early.

Until the next issue, enjoy your holidays and if you have any queries, or information for inclusion in our report, do please contact me.

ROBERT BREWER

MIDLANDS

One of our Association's oldest members, Jim Bevan, has passed away following a short illness. Jim, who was affectionately known as 'Ginger', had spent a record twenty five years at Little Aston G.C. alone. This, apart from brief spells with Sandwell G.C. & Aldridge G.C., was his life and he has left an indelible mark at the club. Even in retirement Jim worked on his beloved Little Aston and it was there that he was honoured to be selected as caddie for the Prince of Wales, back in 1932. He was a stalwart supporter of our Association and its sporting events and he will be sorely missed. We extend our sympathy to his family.

Our annual R. Taylor Green-somes Knock-out Pairs Tournament is progressing well, with 8 pairs still remaining. I shall give further reports next month.

Still on the R. Taylor theme, the annual East Midlands v Midlands Golf Challenge will be played at the Longcliffe Club on Monday, October 2nd. To qualify for this, your best nett score from any of the three 27 hole competitions will be included in selection of the best twelve scores for our team line-up.

Finally, and forgive me if I repeat myself, do please contact me, by 'phone or in person, if you have any items of news for insertion in **Greenkeeping Management**. I heard recently that one or two members had not received their membership package. If you are amongst them, ring me and I'll see to it for you. I hope to meet more of you at one or other of our golf fixtures, or at our winter lectures, about which I shall make an announcement in a future issue.

IVAN TOON

EAST OF ENGLAND

Let us welcome the time of year when the sun shines and greenkeepers are seen at prayer — kneeling over small holes in the ground when the watering systems are suffering from 'seasonal belligerence'. Everyone asks "what's wrong?" but don't want to know when they realise the problem needs money to put the matter right.

The section held the rearranged golf fixture for the Lambs Trophy. This was held at Stoke Rochford Golf Club in sunny weather, on a course that was in splendid condition. The views over the stately home and park were awe inspiring and when the standard of golf fell there was splendid wild-life to watch and lift the spirits high.

We had been invited to play at Stoke Rochford by Peter Bloodworth, who is well known to us for his Worth Draining. Peter declared he hadn't played golf for three months, but still managed to return a nett 68 and scoop one of the prizes. The Lamb Trophy, for greenkeepers, was won by our section Vice-Chairman, Mr Graham Patrick of Woodhall Spa Golf Club with a nett 68. In joint second place came E. Hunt and C. Macdonald, each receiving donated prizes.

Our grateful thanks to Mr Robin Lamb, who joined us and presented the Trophy — also to the Captain and Committee of Stoke Rochford for allowing us the use of their delightful course.

COLIN SWINGLER

SOUTH WEST

'It hadn't rained since the old King died', but . . . you've guessed it, as soon as we stepped onto the first tee at Chipping Sodbury for the **Browns Bowl** match against the Secretaries, down it came! Some of it even came sideways on a stiff breeze.

The match, decided by Stableford points, was hard fought and despite the temperature struggling to reach fifty some pretty hot scores were returned. The Secretaries were still trying to hold on to their moment of glory (and The Bowl) after their win in '88, the first in almost a decade, but with Mervyn Gray scoring 38 points and Jock Millar and Vic Lewer scoring 36 points each, we greenkeepers looked pretty good. And so it turned out, for although Ray Burniston and Ralph Crisp replied with 35 points each for the Secretaries it was to no avail, the Greenkeepers winning by 265 to 247. Both team Captains thanked **Browns of Bristol** for the prizes and Chipping Sodbury for their hospitality.

I've had three replies to take up places on the spraying course (Foundation Module) and this is simply not enough! Surely there are more of you who are conscientious enough to want to hold

the necessary certificate — I've got mine.

I'll look forward to seeing a great many of you at Knowle on August 1st for the 36 hole Championship. I plan to arrange a tour of both course and facilities for non-players in the afternoon; and sincerely hope that more than one person will be interested enough to turn up and grasp the opportunity to view another course and hear of both problems and remedies. This is how experience is gained.

PAUL WORSTER

SUSSEX

Our match against the Secretaries at Bognor Regis was again a successful event with the match being halved. Our thanks go to all those involved in the organisation of this very enjoyable day. There is to be a rematch at Mannings Heath in September and we shall all be trying very hard to win.

We had a turnout of some 20 members and their guests for the event at Cowdray Park Golf Club, **The FARMURA Trophy** was won by L. Shrub with 38 points. We thank Jonathan Harmer for the donation of this splendid trophy. Once again the facilities were excellent and our grateful thanks go to all concerned.

Results: Members. 1st - L. Shrub, 38pts; 2nd - M. Butromovitz 37pts; 3rd - S. Philips (Head Greenkeeper at Cowdray) 35pts.

Guests: 1st - D. Eastland; 2nd - K. Raye; 3rd - J. Leggett (back nine).

Forthcoming Fixtures: August 3rd - Mannings Heath G.C. Stableford, 1.30 p.m. September 26th - Rowlands Castle - all day Amateur Meeting.

DICK BULL

LONDON



George Whitby, Head Greenkeeper, West Herts Golf Club.

Our summer meeting was held at the **West Herts Golf Club** on June 19th in glorious sunshine. Our thanks go to the club for their hospitality and to **George Whitby** for presenting the course in fine condition. The event was won by **Andrew Phillips** from **Hadley Wood**, with 41 points, followed closely by **Andrew Ross** and **Chris Handyside**. The ladies prize was won by **Frankie**

Davis and the trade prize by **David Hawkins**. Our thanks go to the traders who so generously support our competitions.

The 1988 Summer League eventually came to a close with the final at **Moor Park**. **Stuart Boyes** and **Phillip Gibson** from **Harpenden** were the eventual victors, defeating **Gareth Roberts** and **Trevor Oxtoby** from **North Middlesex** in a very close fought game. The 1989 Summer League is now well under way and should you wish to compete please contact **Nick Baldwin** on **Watford 53967**.

Coming Event: An Autumn Tournament will be held at **South Herts Golf Club** on August 11th, starting at 4.00 p.m. Players wishing to compete should contact me, **Michael Peters**, on **Northwood 28167**.

MICHAEL PETERS

EAST ANGLIA

Here we go again . . . with our happy band of wanderers eventually ending up at **Waldersfield Heath**. With 'Uncle Sam' ensuring that everything was well organised, including the weather, it was well worth our visit. On the other hand, the golf was something else! To the victor go the spoils, and in first place (0-18) was **Dave Wells** (the quiet man), with 36 points. In class B (19-28) **Toddy Huddleston** was 'hot', with 42 points and no passes! For the guests, **Michael Virley** scored a creditable 37 points. We thank **Waldersfield Heath** for their courtesies and send a special thanks to **Sam Sylvester** for handling everything so well. The course presentation was excellent and we are prompted to say 'play it again Sam'.

MICK LATHROPE

NORTH WEST

The story is told that **David Hannam**, Course Manager at **Baildon Golf Club**, in preparing for the ISEKI Regional Qualifying Tournament, had been performing a rain dance for several weeks in order to 'colour it green'.

He's a great dancer — but his timing is lousy! At 11.45 a.m. on tournament day and just fifteen minutes before first tee off the heavens opened — with a driving wind thrown in for extra measure.

Making a tough course even tougher, the weather came first, though all 54 qualifiers deserved a medal just for finishing.

And finish they did, with fine scores that belied the foul conditions, with the North West well represented in prizes and **Andy Peel** the victor in Category 1 with 70 nett off 8. A great performance.

The players were fed and

watered royally, courtesy of ISEKI, with a meal from the caterers that was truly fit for a King. We thank them — with bulging stomachs!

We still need players for the 'Roses' and Stewards matches — please call me, **Bert Cross**, on **051 724 5412** if you wish to play.

How's this for a story:

Ken Pearce, who works at **Mere Golf & Country Club** as Head Greenkeeper, under Course Manager **Mike Sheehan**, completed fifty years in greenkeeping in May. Born in 1925, Ken caddied at Mere in '35 at the tender age of ten, his pay being one shilling and sixpence (7.5 new pence!). In '39 he began his career at Mere as a junior gardener, remaining until '43 when the navy called him to active service. Returning in '47, he joined the green staff and in the late '70s became Head Greenkeeper.

Mere was constructed in 1934, so Ken knows the course like the back of his hand and must have seen many changes. We wish him well for the future.

BERT CROSS

NORTHERN

President's Day at **Moortown** was played in glorious hot sunshine this year, or at least until tea-time when the heavens opened, drowning the tail-enders. The course was left looking like a lake. The scratch prize was won by **Edwin Walsh**, 1st division by **David Spurden** and 2nd division by **Matt Bolton**. On behalf of all who attended I would like to thank **Bill Mountain** for his hospitality and continued support as President. Our thanks also to **Bill Fox** and his staff for the excellent condition of his course and in particular the greens, which greatly impressed all who played.

The Iseki qualifying tournament took place on our patch just up the road from me at **Baildon**. The weather was absolutely disgusting but I think everyone enjoyed their golf! Qualifiers for the national final at **Moor Allerton** in October from our Section were **Edwin Walsh**, **Ray Johnson**, **Mick Hannan** and **Dave Collins**. The hospitality by Iseki was excellent and the meal left some golfers complaining they could not eat it all (even Mick Hannan!), we all had something the size of half an emu, plus all the trimmings! It was a pleasure to see the BIGGA Executive Director, **Neil Thomas**, Education Officer, **David Golding** and National Chairman **Paddy McCarron** at the event, and also the editor of our new magazine **David White**, who were all pleased to meet. Thanks must go to **David Hannam** and his boys for all their hard work on the course.

BOB LUPTON

What's so important about ETME, about BIGGA, about Greenkeeping Management, and you?

**We're all working together for this
second European Turf Management
Exhibition in Harrogate, England,
next January 24 to 26.**

**Attend a great seminar programme,
see market leaders offering new
machinery, equipment and supplies
– it's the occasion for the
greenkeeping and turf industry.**



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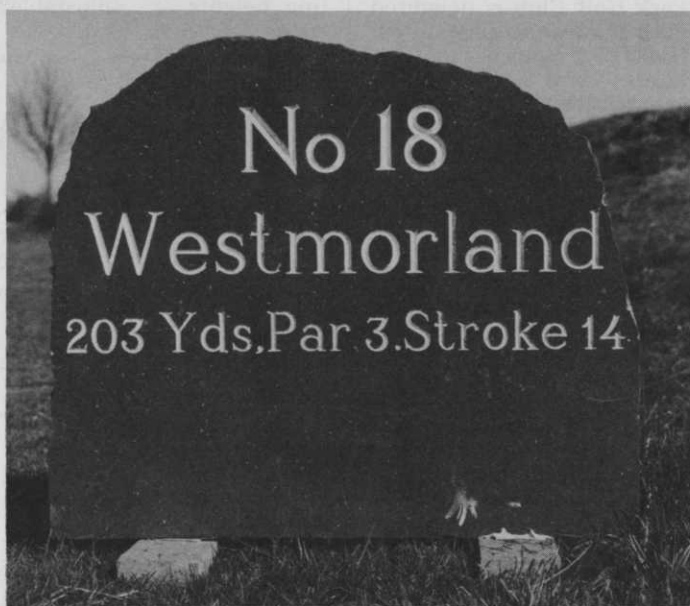


**FOR SEMINAR INFORMATION
CONTACT:**

**Neil Thomas/David Golding, BIGGA
Aldwark Manor, Aldwark, Alne
York YO6 2NF
Tel: (03473) 581/2. Fax: (03473) 8864**



The LM508 from Beaver Equipment Ltd.



New Cushman Diesel Turf Truckster with a Multi-Depth Aerator.



New Beaver Gang Mowers

New from Beaver in 1989 are the LM308 and LM508, two linkage mounted hydraulic gang mowers. These machines will operate with virtually all standard lightweight tractors, combining economy with a high standard of finish and all-weather performance.

Beaver 30" cutterheads, available in 4 blade, 6 blade and 8 blade forms, can be used in either fixed or floating mode. The use of these ver-

satile gang mowers can be further extended by the fitting of the Mk2V verticut head for thatch control.

Low weight and modest power requirement combined with rapid servicing and low maintenance costs make the LM308 and LM508 excellent machines for the professional user.

17

The Beauty of Slate

Few who travel through the beautiful landscape of Cumbria can fail to be impressed by the shining delights of slate - seen to such good effect on roofing, cladding and, increasingly now, on the most prestigious of golf and country clubs. Here slate's natural and hardwearing qualities, not to mention its handsome appearance, lends itself to applications hitherto unheard of.

Pride of **Burlington Slate Limited**, the roof of Royal Troon clubhouse, will have been seen by millions of viewers on TV during The Open though few will have identified one with the other

- which is a pity. Burlington Slate for elevated tee facings, tee markers and direction signs are growing in popularity and we understand that the up-market East Sussex National Course is the latest to invest in slate tee markers for their 45 tees. Lest you think that innovation stops at outside use, we at Greenkeeping Management were delighted to see a clever putter head fashioned in slate and the Director's visiting card overprinted on slate no thicker than card - all very clever and bound to leave a lasting impression.

16

New Diesel Cushman Truckster

A diesel engined version of the successful **Cushman Turf Truckster** has been launched exclusively for the British market by the nationwide distributor, **Huxleys Grass Machinery**.

The three cylinder, water-cooled Kubota engine develops 21.5hp at 3000 rpm, in both three and four wheel versions.

Its introduction is a first for Britain, coming after thorough investigation into both demand and potential, following which Huxleys asked for, and got, Cushman to produce the new model, even though with low petrol costs in the USA there was no call for a homemarket version. The increased preference for diesel here - the lower pur-

chase and cheaper running costs of the fuel - was sufficient reason for Cushmans to launch this new model.

Equipped with both a water-cooled and diesel engine, air is drawn via the radiator by a thermostatically controlled electric fan.

Like its stablemates, the model has a three forward, one reverse speed gearbox split into high and low range to provide considerable operating versatility.

The new model will accept all the current Cushman & Huxley attachments.

Demonstration models are available for evaluation by prospective users.

60



Don Major (left) Head Greenkeeper of Betchworth Park is shown the tight cutting circle of his new TORO HMR 1600.

Countrywide cover by Rolawn

Rain or shine, drought or downpour — **Rolawn Limited** make the proud claim of being able to supply ready to lay weed free turf, come what may, on demand. Their **Rolawn Advantage**, a

splendid greens turf guaranteed free from poa annua, can be laid at any time of the year except when there is frost in the ground and turf laid during Autumn, given favourable weather, good preparation and management, should be ready for play the following May or June.

34

Modus 'T' growth

ers, Brushes, Rollers and Combi-Tools, all of which fit in one unique mainframe assembly.

With the additional ability to apply an infinitely controlled hydraulic pressure, the system offers the ultimate in versatility. Not content to rest on their laurels, we understand **Modus 'T'** are to introduce yet another all British designed machine as a major new addition to their range. We await it's arrival and will report as details become available.

62

TORO at Betchworth Park

Trees, trees, hundreds of trees! Just the thing to enhance a golf course and few golfers would argue that there is no finer sight than a tree lined fairway. The occasional wayward drive is one thing, but what about the greenkeeping staff and the problems that trees present to them?

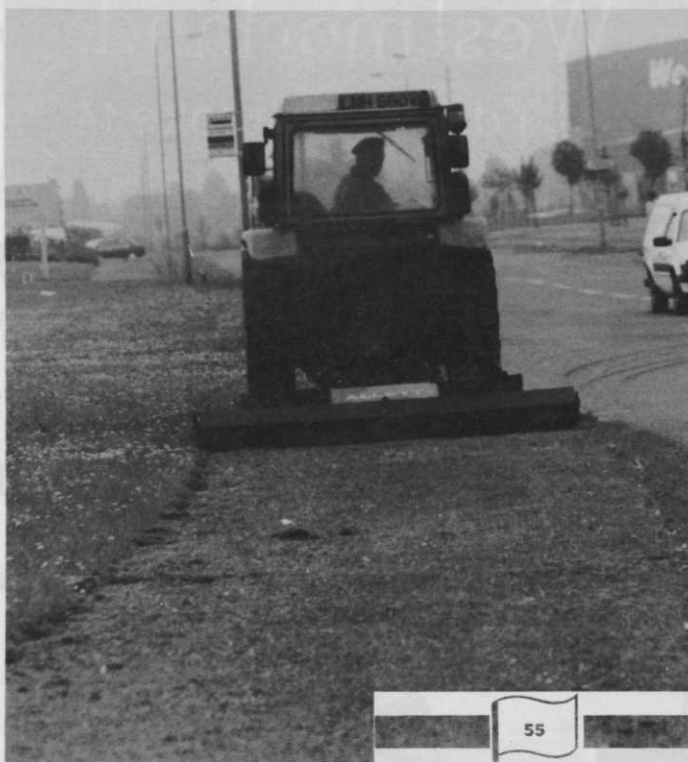
The answer is the new **HMR from TORO**, which has the ability to leave uncut circles as small as 8" diameter.

Don Major, head greenkeeper at Betchworth Park Golf Club is delighted with his new acquisition, an HMR 1600 with 52" cutting blade, and says of its capabilities "time saving is immense, the HMR will save hours usually spent operating

trimmers and we use it around the 200 or so trees and numerous pathways."

The HMR has two cutting widths: 112cm (44") and 132cm (52"). Separate gear-boxes drive the rear wheels independently so that drive can be cut off from the inside wheel when turning sharply. This prevents scuffing or marking turf and because speed is automatically reduced on sharp corners the operator can cut edges more easily. The HMR 1600 is highly versatile with excellent stability on hills. Cutting heights are adjustable from 37.5mm (1½") to 112.5mm (4½").

61



55

Specialist mowers from Allett

Allett Mowers, traditionally associated with high class grass cutting machinery for cricket, sports clubs and local authorities, now have two machines that are ideal for golf course maintenance.

Their **Park Star** is a tractor drawn rotary mower with full width front and rear rollers. In providing a low cost and low maintenance fairways mower it also gives a high work rate, easy height adjustment and a handsome striped finish.

The **Super Shaver** is a very fine cut mower, especially designed for use on golf and bowling greens. A 20" machine, it gives 146 cuts per yard and can cut down to 1/16", with adjustment by a single hand wheel. Powered by a Suzuki 3.8 HP OHV Engine, it runs happily on lead free petrol.



Tom Jones

The growth of the successful **Modus 'T'** complete all-in-one ground care system continues, with the company proud of its introduction of no less than 18 different products throughout the past three years. These include attachments such as Spikers, Scarifiers, Skip Buckets, Cor-

EXCLUSIVE OFFICIAL BIGGA MERCHANDISE

for the professional greenkeeper

SWEATERS

Quality sweaters in 100% machine washable lambswool carry the BIGGA embroidered logo and come in a range of superb colours.

Colours: Navy, Lt Grey, Burgundy, Bottle Green, Black, Brown, Natural, Red, Lt Blue, Lemon, Royal Blue, White, Pink, Jade.

Chest sizes: 36, 38, 40, 42, 44, 46"

£16.75 each

Chest sizes: 48, 50, 52, 54"

£18.75 each

Order No: **B108**



BLAZER

This smart and stylish official BIGGA Blazer is made from wool/terylene mix and features patch pockets, wire embroidered badge and metal buttons.

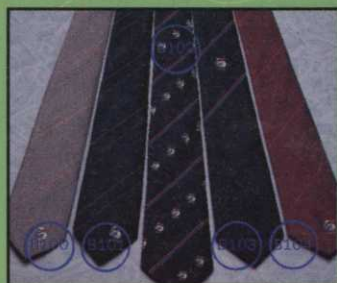
Colour: Navy

Chest Sizes: 36, 38, 40, 42, 44, 46, 48, 50"

Specify Short, Regular, Long.

£75.00 each

Order No: **B105**



TIES

Official BIGGA ties, custom-made in 100% polyester with embroidered logos.

Colours: Navy, Burgundy, Grey, with designs as shown.

£3.48 each

Order No: **B100, B101, B102, B103, B104.**

TEE-UP!

Just right for "tea-ing off" in the mornings, BIGGA's own pottery mugs with logo.

£1.00 each

Order No: **B107**



BADGE

The distinctive BIGGA wire-embroidered badge is also available separately for easy application to any garments.

£12.00 each

Order No: **B106**



SLIPOVERS

Fully-fashioned botany wool V-neck slipover with embroidered BIGGA logo.

Colours: Navy, Lt Grey, Burgundy, Lt Blue, Lemon, White.

Chest sizes: 36, 38, 40, 42, 44, 46, 48"

£16.30 each

Order No: **B109**



LEISURE SHIRTS

Lightweight jersey-knitted polo shirts with embroidered BIGGA emblem.

Colours: Pink, Lemon, Navy and Sky Blue.

£11.00

Order No: **B112**

RAIN SUIT

Designed for comfort and ease of movement as well as protection against the worst of weathers, the official BIGGA waterproof rain suit has a 100% polyurethane outer and 100% polyamide lining.

Colour: Light Blue

Sizes: S, M, L, XL

£28.00 each

Order No: **B110**



BIGGA UMBRELLA

Colourful, printed 55" golf umbrella is unmistakably BIGGA in every way!

£7.78 each

Order No: **B111**

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We have selected only quality products for the BIGGA range because we want you to be entirely satisfied with what you buy. If for any reason you are not, return the unused item to us within 30 days of receipt and we will either supply a replacement or refund your money. This guarantee is in addition to your statutory rights.

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Cardholder's address

Signature

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Sub Total	
Add VAT @ 15%	
TOTAL	

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VISIT THE OFFICIAL BIGGA STAND AT TROON TO SEE OUR NEW RANGE OF WORKWEAR.



The New Countax CD1200 HDL is a 42in cut, diesel rotary mower with Hydrostatic drive and diff lock.

New Countax Rotary Mowers

Countax Limited have announced two new models, a 22" two-stroke Bank Mower with diff lock, and a 42" cut with diff lock and hydrostatic drive. Known as the Contractor CP400 and powered by a 4hp Briggs & Stratton, the 22" model has swing tip blades to avoid damage and is driven via a five forward and reverse transaxle. The 42" model, pictured here, is powered by a Lombardini Diesel engine which gives unbeatable economy and service — 3,000 hours before overhaul! Fitted with a hydrostatic transmission, diff lock can be engaged for steep slopes. Fitted with two counter rotating, swing tip cutter units, The CD1200DL represents extraordinary value for money at just £1999 + VAT.



Dr. Rob Rowling — Plant Breeder for Johnsons — delighted to announce that the fruits of ten years of trials and research have brought success.

Lineage and photographs for Product Focus should be sent to David White, 13 Firle Close, Seaford, East Sussex BN25 2HL Tel. 0323 891291

Jupiter — Johnsons Shining Star

"The best new cultivar to have reached the sports and amenity sector for many years" — that is the description applied by Johnsons Seeds to Jupiter, an outstanding fine-leaved cultivar of the creeping red fescue group, which was introduced recently to an excited and enthusiastic group of sportsturf journalists who were privileged to see at first hand the great strides this old established company have made in recent years.

Through their amenity grass breeding programme and launched after 15 years of assessment, development and trials, Jupiter offers all the attributes which sports turf managers look for in a cultivar, notably:

- ★ Bright green and distinctive strong winter colours.
 - ★ Uniform and compact low growth for low maintenance and fewer heads.
 - ★ Higher shoot numbers per unit than many other Chewings fescues, giving density and resistance to wear and weeds.
 - ★ Tolerance to drought in Summer and cold in Winter.
 - ★ Disease resistant — especially to red thread and dollar spot.
- British bred and produced, Jupiter is currently the only cultivar to have been awarded five 'A' ratings by STRI for compactness, freedom from red thread, freedom from dollar spot, greenness in Summer and greenness in Winter. The new cultivar received 'B' ratings for 5mm mowing and short growth.

Johnsons are recommending that Jupiter should be a component of the major mixtures for fine turf and are including it in their mixtures for golf greens. Such is Jupiters versatility that mixtures are also being marketed for fairways, embankments and shaded areas.

Derek Whelbourn, Director of Johnsons' wholesale division, enthused: "We have called it Jupiter because we believe it is out of this world — and we are very proud to have produced such a fine cultivar from our breeding programme."

Pledged to keep pace with demand, Jupiter acreage alone will this year exceed the total UK acreage of creeping red fescues in 1986, while 1990 production will triple that figure.

64



Barrus Cub Cadet Diesel Ride-On Mower with Mow-N-Vac rear collector.

Cub Cadet Diesel from Barrus

To match the requirements of the UK market, Barrus have introduced a 48" rear discharge cutter deck on the 17 h.p. Cub Diesel ride-on mower. This special deck is based on three cutter blades, developed to match the demanding requirements of UK grass.

Launched at 'Landscape Industries '89' this year, the new Cub and its optional additions — a 50" side discharge cutter deck which can be matched to the Mow-N-Vac rear collector system — was welcomed by a nationwide network of Cub Cadet ride-on mower stockists as an important addition to the range.

The 48" unit is priced at £5150 ex VAT, The 50" at £4295 ex VAT and the Mow-N-VAC at £895 ex VAT.

63

65

ICI Re-launch Nimbus 2

Following two years of extensive product design, re-development and improvement ICI Professional Products have re-launched to the industry a new, unique and state-of-the-art CDA application system.

Named Nimbus 2 ICI can now offer an up to the minute CDA spray application system that is both simple to operate, safe to use and providing a high degree of accuracy and reliability. In addition to the ergonomically designed light weight CDA spray lance ICI have introduced two total herbicides for either early or mid-season total weed control. Bullseye and Snapper are both formulated as ready to use CDA formulations and are supplied in 5 litre comfortable to carry back packs.

The Nimbus 2 sprayer carries a twelve month guarantee and comes supplied with carrying harness, spare 5 litre back pack, calibration kit and comprehensive operators manual.

54

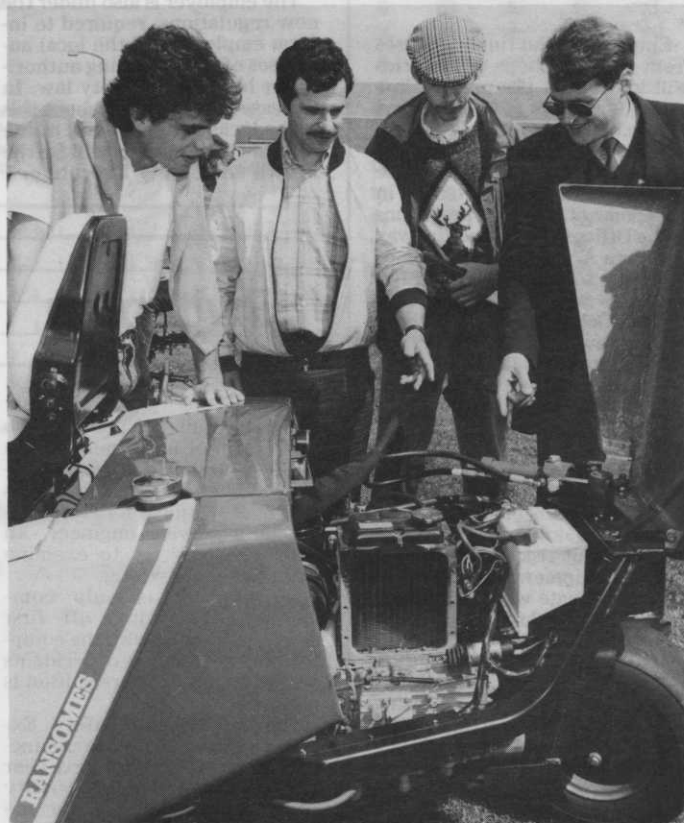
French invasion at Ransomes

Seen listening to Ransomes Salesman/Demonstrator Julian Copping, (pictured right) about the power steering on Ransomes' GT Greens Triple Mower, are part of a group of thirty six French visitors from the Lycee agricole in France, where they have a special department for training greenkeepers.

During the past 3 years golfers in France have increased at a rate of 20% a year and with the growth expected to continue, so will the demand for more courses and trained greenkeepers to care for them.

Ransomes Sales & Marketing Director, Keir Wyatt, said: "We believe the growth of golf in France opens up exciting opportunities for us".

While touring the Ransomes' Ipswich factory, the students and lecturers expressed surprise at the size of the operation and were extremely keen to try the Ransomes equipment for themselves.



Student Luc Menneteau, lecturer Daniel Ganthiel, student Sylvain Mignotte and Ransomes Salesman/Demonstrator Julian Copping are pictured above.

9



Quite the smartest golf course signs around are the unique Alan Birch designs (pictured left), marketed by A.C. & M. Birch Ltd. Made in G.R.P., they are virtually maintenance free and any design can be incorporated, including visuals of each individual layout.

Clearly they add a distinctive, colourful and highly professional touch to the teeing area.

58

Quintozene introduced

Following the withdrawal of BRAS-SICOL, due to supply problems of the active ingredient, RHONE-POULENC delight in announcing its re-introduction under the name of QUINTOZENE.

That there was a demand for such an alternative fungicide by UK greenkeepers is beyond

doubt and the popular QUINTOZENE WETTABLE POWDER, giving reliable control of Fusarium Patch, Red Thread and Dollar Spot, is now available in 5kg plastic packs.

And in inflationary times it is good to note that SPASOR, their specialist non-residual herbicide, has been reduced

in price.

This foliar — applied treatment for the control of annual and perennial weeds is available in 1 and 5 litre containers.

59

Mixtures with good colour

Quite apart from the high reputation Fairfield Turf Ltd. have as suppliers of cultivated turf, they continue to provide their excellent "golf green" and "quick green" seed mixtures to many prestigious golf clubs.

The inclusion of 10% agrostis tenuis "Egmont" in "golf green" gives the mixture excellent summer colour, together with good drought and disease resistance, while the all-bentgrass mixture of "quick green" is a great success with greenkeepers, providing both rapid establishment and fine, dense sward at all times.

18

Displaying information

Employers who run businesses from offices, shops or factories will know that the present law requires a poster to be displayed for the benefit of employees summarising the legal requirements for health and safety. In an office or shop, the poster sets out in brief some of the main provisions of the Offices, Shops and Railway Premises Act and in the case of factories, some provisions of the Factories Act.

From October this year these posters will be replaced by a single poster which will cover all types of premises. Employers will have to display this in a place where it can be seen by employees.

The new details will draw the attention of employees to the employer's responsibility at law including making the workplace safe without risk to health, ensuring equipment is safe, providing adequate welfare facilities (including washing and toilet requirements).

It will also draw the attention of employees to their legal duties which will include co-operating with the employer on health and safety matters, not interfering with or misusing anything provided for health, safety and welfare and taking reasonable care for the safety of the

employee himself or herself and other employees.

The poster will be available in a month or two.

The employer is also under the new regulations, required to inform employees of the local addresses of the enforcing authority for health and safety law. In the case of offices and shops this is the local authority and in the case of factories this will be the Health and Safety Executive.

Switching off

Practically all businesses have some form of equipment which relies on electricity for it to function. Sometimes the machines may malfunction but before calling in a service engineer, an employee may try to examine what has gone wrong.

Although it is only commonsense to switch off first before tampering with the equipment, large numbers of accidents occur because this precaution is not taken.

The Health and Safety Executive have therefore announced that from 1st April next year new regulations, the *Electricity at Work Regulations*, will come into force which will make it an

offence if an employer allows any employee to work on equipment without switching off first.

The only exceptions to the rule would be where it is unreasonable in all the circumstances for equipment to be worked on in a dead state and only then where proper precautions are taken to prevent an injury. It is important, therefore, for all employers to ensure that no equipment connected to the mains is tampered with or worked upon unless the mains supply is switched off.

Terminating employment

Although it is widely known that there are minimum periods of notice that have to be given by both employers and employees to terminate employment, there are a number of points worth clarifying.

First, the basic facts. Unless there is serious misconduct (e.g. theft) an employer has to give an employee the following minimum notice (or money in lieu) depending on how long the employee has had in that employer's service.

For any service between four

weeks and two years, one weeks notice. When there has been two years service — two weeks notice has to be given; for three years service, three weeks notice and so on up to twelve years service when twelve weeks notice applies. Above this period, twelve weeks notice is the rule.

There is nothing to prevent an employer or an employee agreeing to longer periods.

In the event of redundancy, in addition to a redundancy payment, the notice or money in lieu of notice must be given.

An employee must give his employer a minimum of one week's notice. What happens if the employee walks out without giving this period of notice?

Theoretically, the employee is in breach of his contract and the employer can take him to court to claim any loss suffered as a result.

However, especially in the case of a small employer, it is difficult to quantify this loss in cash terms. It might mean inconvenience and one or two people working harder but there is very little actual financial loss. In most cases, therefore, it is just not worthwhile setting the legal processes going and most employers make the best of a bad job.

Finally, it is worth noting that in the event of redundancy and notice being given, the employer is under a legal obligation to allow the employee reasonable time off to seek other employment.

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14



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1989 BIGGA GREENKEEPER MEMBERSHIP PACKAGE

BIGGA offer a comprehensive membership package for greenkeeper members. The full range of services and benefits is in line with a progressive professional Association. Full details are available from Headquarters Office on request, but the package includes:-

- (i) Monthly copies of Greenkeeping Management — the Association's official publication.
- (ii) The annual Journal and quarterly Bulletins of the Sports Turf Research Institute.
- (iii) Full Legal Advisory Service, including personalised card.
- (iv) Full Employment Cover.
- (v) Full Personal Injury Cover.

Pursuit of civil claims by the Insured for damages, specific performance or injunction arising from or out of

- (a) A contract of employment.
- (b) Death or personal injury of the Insured from any cause.

- (vi) Beneficial Insurance Options in respect of Car, Home — Building and Contents, and Vehicle Breakdown.

- (vii) BIGGA Enamelled Lapel Badge.

- (viii) BIGGA Membership Card.

- (ix) Use of Placement Referral Scheme.

- (x) BIGGA car badge sticker and golf bag tag.

- (xi) Personal Accident Cover, providing capital sums for: Death (£5,000), loss of use of one or more limbs and eyes (£5,000), permanent total disablement lasting 104 weeks at the end of which being beyond hope of improvement (£5,000).

However, a most attractive feature of the negotiated scheme will enable members suffering temporary total disablement in excess of seven days to receive a weekly income of £25 for a maximum of 104 weeks.

Also, it will be possible for members to purchase additional units at their own cost within the scheme and a pamphlet incorporating an application form will be made available upon payment of subscription.

INTERNATIONAL MEMBERS — All items in the package are available to members both in the Republic of Ireland and internationally with limitations on items (iii), (iv) and (v). The personalised card can be used for seeking legal advice, but this advice will relate to either English or Scottish Law. The card can be used when the member is visiting Great Britain, both for advice and in respect of any claims arising during or from such visits.



THE OFFICIAL PUBLICATION OF THE
BRITISH AND INTERNATIONAL
GOLF GREENKEEPERS ASSOCIATION

READER SERVICE CARD AUGUST 1989

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 - F. ☐ Manufacturing
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 - H. ☐ Other
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 2. ☐ 18 hole
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 4. ☐ 36 hole
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 - E. ☐ Architect
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 - G. ☐ Turf Specialist/Technician
 - H. ☐ Golf-Related Personnel
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9	26	43	60	77	94	
10	27	44	61	78	95	
11	28	45	62	79	96	
12	29	46	63	80	97	
13	30	47	64	81	98	
14	31	48	65	82	99	
15	32	49	66	83	100	
16	33	50	67	84		
17	34	51	68	85		
18	35	52	69	86		
19	36	53	70	87		
20	37	54	71	88		

☐ Have a representative contact me about these items:

REF. — G.M. 8/89

1989 MEMBERSHIP APPLICATION FORM

PLEASE COMPLETE FULLY IN BLOCK CAPITAL LETTERS:

FULL NAME	NAME OF EMPLOYER
HOME ADDRESS	ADDRESS
COUNTY	COUNTY
POSTCODE	POSTCODE
TELEPHONE	TELEPHONE
DATE OF BIRTH	POSITION HELD
PROFESSIONAL QUALIFICATIONS	DATE OF APPOINTMENT

I HEREBY APPLY FOR MEMBERSHIP OF THE BRITISH AND INTERNATIONAL GOLF GREENKEEPERS ASSOCIATION AND AGREE TO ABIDE BY THE CONSTITUTION AND RULES OF THE ASSOCIATION.

SIGNED DATED

SUBSCRIPTIONS ARE NOT TO BE SENT WITH THIS FORM BUT WILL BE INVOICED SEPARATELY.

FEES PAYABLE WILL BE: FULL GREENKEEPING MEMBER £28.00
18 YEARS OF AGE AND UNDER £14.00

REF. — G.M. 8/89

UK SUBSCRIPTION ORDER FORM

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1. How did you receive this issue of GM?
 1. ☐ It is part of my BIGGA membership benefits.
 2. ☐ I am a subscriber.
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 4. ☐ This issue was sent to me by post.
2. Type of facility
 - A. ☐ Private golf course
 - B. ☐ Municipal golf course
 - C. ☐ Hotel/Resort golf course
 - D. ☐ Park
 - E. ☐ Sod Farm, Nursery
 - F. ☐ Manufacturing
 - G. ☐ Business
 - H. ☐ Other
3. If at a golf course, number of golf holes
 1. ☐ 9 hole
 2. ☐ 18 hole
 3. ☐ 27 hole
 4. ☐ 36 hole
 5. ☐ Other
4. ☐ Please find enclosed my cheque for £21.95 made payable to "GREENKEEPING MANAGEMENT"

Signature..... Date.....

Please complete all the above questions

Mr. ☐ Mrs. ☐

FIRST NAME	SURNAME
TITLE	
COMPANY OR COURSE	
ADDRESS	
CITY	POSTCODE
WORK PHONE	

☐ Please invoice me/my company

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REF. — G.M. 8/89

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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 to 18 hole golf courses from 1st January, 1989.

Course Manager/Head Greenkeeper.....	£13,409 p.a.
Deputy Course Manager/Deputy Head Greenkeeper	£9,646 p.a.
First Assistant.....	£160.02 p.w.
Assistant Greenkeeper.....	£150.04 p.w.
Apprentice 50% of Assistant Greenkeeper rate, ie.....	£75.02 p.w.
and to increase annually by 12.5%.	

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 salary scale of £9,646 per annum should apply.

N.B. Staff in possession of recognised qualifications should have this reflected in an addition to basic salary.

Basic conditions of employment should include:

1. Where accommodation is provided by the Club, it should be rent and rates free with heating/lighting costs borne by the Club.
2. Where accommodation is not provided by the Club, a suitable remuneration should be paid.
3. 40 hour week.
4. Retirement Pension Scheme.
5. Telephone costs on Club business.
6. Mileage allowance.
7. Time off to attend lectures, demonstrations, BIGGA functions and tournaments.
8. If not salaried, basic overtime to be paid at time and a half, with double time on Sundays and Statutory Holidays.

Any enquiries about National Wages Scales and Conditions of Employment should be addressed to: National Headquarters, Aldwark Manor, Aldwark, Alne, York, YO6 2NF. Tel: (03473) 581/2. Fax: (03473) 8864.

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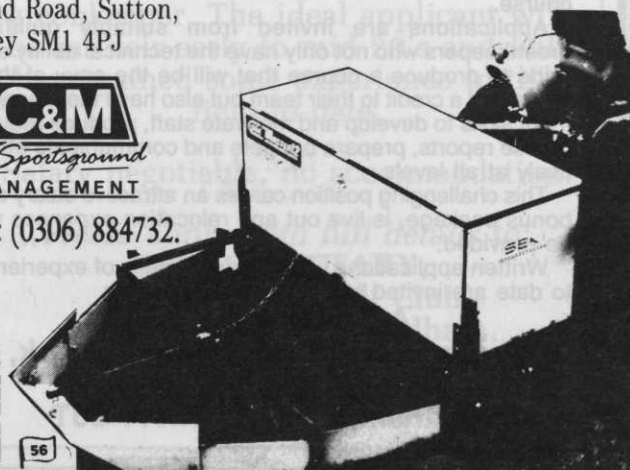
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This challenging position carries an attractive salary and bonus package, is live out and relocation expenses will be provided.

Written applications with CV and details of experience to date are invited to:

ALLAN McLUNDIE
General Manager, Staverton Park,
Staverton, Nr Daventry,
Northamptonshire NN11 6JT

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require an

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W. Paterson (Head Greenkeeper)
Beaconfield Golf Club, Farm Lane,
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require a

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The successful applicant should be capable of leading a team, after initial guidance from the head greenkeeper.

Salary negotiable, no accommodation available.

Send full C.V. to:
The Secretary
Muswell Hill Golf Club
Rhodes Avenue
London N22 4UT

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All enquiries to
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WD1 7SL**

Tel. (0923) 36484**ROTHERHAM
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require a

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Greenkeeper**

Required for 18 hole links course situated in the beautiful Gower peninsular 10 miles west of Swansea.

Applicants must be fully experienced in all aspects of greenkeeping and modern machinery and possess the ability to lead and motivate staff.

No accommodation, pay is negotiable. Applications in writing stating experience to:

**The Secretary,
Pennard Golf Club,
2 Southgate Road, Southgate,
Swansea SA3 2BT**

**NEW ZEALAND
GOLF CLUB**

require an

**ASSISTANT
GREENKEEPER**

The course, which was established in 1895, has a vacancy for an assistant greenkeeper. The ideal applicant will be in their early to mid 20's and will have gained some experience in this field to date.

Salary negotiable, no accommodation.

Please apply with full details to:

**THE SECRETARY,
New Zealand Golf Club,
Woodham Lane, Woodham,
Weybridge, Surrey KT15 3QD
TELEPHONE (09323) 45049**

THORNDON PARK GOLF CLUB require a HEAD GREENKEEPER

Applicants should be fully qualified and capable of managing a premier, fine, mature parkland golf course set in 240 acres.

A thorough knowledge in the use and maintenance of modern greenkeeping machinery and the ability to organise and motivate staff is essential.

Commensurate salary for this high level appointment will be paid.

Apply in writing, with full c.v. to: **The Secretary, Thorndon Park Golf Club, Ingrave, Brentwood, Essex CM13 3RH.**



GRANGE PARK GOLF CLUB require an ASSISTANT GREENKEEPER

Applicants should be suitably qualified in greenkeeping and have a minimum of 2 years experience in all aspects of course and machinery maintenance.

Salary around £6,000 per annum according to qualifications.

No accommodation available

**Applications in writing to:
The Chairman of Greens
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Prescot Road
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Merseyside WA10 3AD**

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Bushey Heath, Watford, Herts. WD2 1JW.**

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*Applications in writing
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**Jack McMillan
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Sunningdale Golf Club
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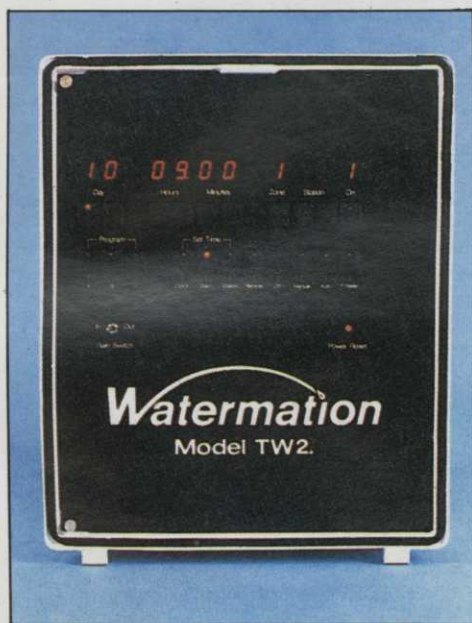
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