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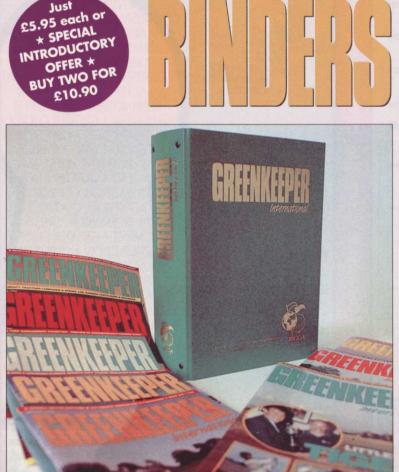


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Sample the Sun, the Sand and the Surf... in Anaheim and San Diego, California, whilst attending the SAA CONFF **ND SHOW 1993** TRAVEL WITH BIGGA to the Golf Course Superintendents Association of America's prestigious annual Conference and Show next January - and while you're there, enjoy the holiday of a lifetime! If you're ready to catch the magic, Anaheim, California, is ready for you! BIGGA has this year joined forces with Thomas Cook to transport you to 'the Magic Kingdom', with the option of a four day trip to San Diego after the GCSAA Conference - sun, sand and surf! We have this year chosen two outstanding luxury hotels: The Anaheim Hilton and Towers, a superior first class hotel, is situated 50 feet from the Anaheim Convention Center and two blocks from Disneyland. Guest rooms have climate control, colour cable TV and radio. There is an outdoor heated pool and four jacuzzis, full health club with sauna, massage, tanning beds, steam room, exercise equipment and aerobics, games room, and beauty salon. There's also a vast range of entertainment and dining facilities - sample Italian, Japanese and of course Californian cuisine. The Hyatt Islandia, another superior first class hotel in San Diego, located on Mission Bay. Guest rooms are air-conditioned with private bath, remote-control colour cable TV radio and phone. The Islandia Bar and Grill offers fine Mediterranean cuisine with bay

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Details of the GCSAA programme will be available from headquarters at a later date.

Cost: Single Room £1,266 per person Package 1 25th January to 5th February 1993 Package 2 London Gatwick/Los Angeles on Virgin Atlantic - 25th January Transfer to Anaheim Hilton Atlantic - 25th January 6 nights Anaheim Hilton - 25th January-Transfer to Anaheim Hilton 31st January Transfer to San Diego - 31st January 1st February 4 nights Hyatt Islandia - 31st January-Transfer to Airport 4th February Transfer to Los Angeles Airport Cost: Twin Room £689 per person Cost: Single Room £1,004 per person. Los Angeles/Gatwick on Virgin Atlantic -4th February (to arrive in UK on 5th) Cost: Twin Room £842 per person Insurance: Anaheim/San Diego £42.95;

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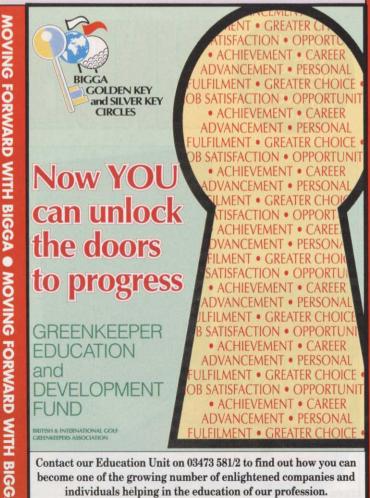
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Contact DAVID GOLDING at BIGGA HQ on 03473 581 for more details.



OPEN YOUR EYES TO THE Anyone who took a good look at the previous BIGGA Turf Management Exhibitions knows that this annual event is certainly an eyeful. New equipment, the latest products, service updates, familiar faces and some new ones made BIGGA President Viscount Whitelaw, who opened the exhibition, proudly proclaim that "greenkeeping has come of age". BTM And for 1993, there's even more to watch out for. Space bookings are already up on this time last year for the record-breaking 1992 exhibition. With all the names you'd expect plus a few surprises, you'll certainly be wide-eyed at the choice and variety of what's on offer at Britain's premier indoor event for the fine turf industry. 993 Bookings for stands from all sectors of the industry will continue to be accepted right up until the last minute, depending on space limitations. But to make sure of the best positions, you need to act quickly. Why wait until January to squeeze in your stand when this week you can plump for a prime site? Debbie Savage has all the details of how BTME can provide you with a

> This will be an event you won't want to miss – make a note of the dates in your diary!

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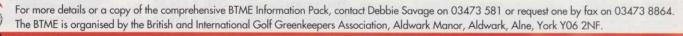
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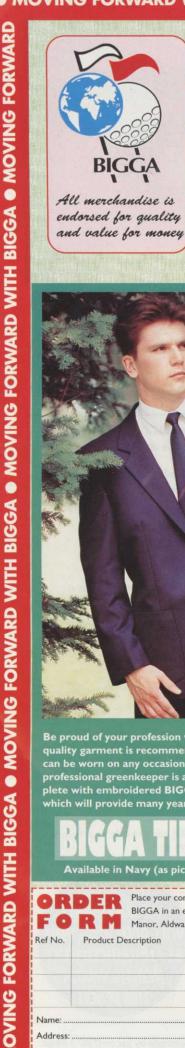
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MOVING FORWARD

Last month Bernard Findlay took Greenkeeper International readers through the planning and preparation stages of the exciting new links construction at Portstewart Golf Club, culminating in the building of a pilot hole. Though much of the experiment was successful, there was to be a bitter learning experience...

Though the tee and fairway on our experimental hole proved a great success, the sand-only pilot green was a failure. This is where our lessons began.

First, a rather late sowing in September – especially in the north – would not allow sufficient time for grass to establish before the rigours of winter. With this in mind, it was deemed essential that further sowing should take place no later than the end of July.

Second, we had not sown the seed to a sufficient depth, which meant that if moisture was not continually available (which in the first several millimetres it wasn't), on emergence of the root hair the seed died. That seed which did germinate and live was 12mm or more below the surface.

Third, the lack of rainfall during the particular September in question meant that it was very difficult to maintain adequate moisture levels, especially with the type of hand-held irrigation we used.

Lesson one, therefore, suggested to us that before embarking on the establishment of any fine turf area -particularly on sand- it is essential that an adequate, preferably automatic, watering system is available, for a number of reasons:

• Obviously, since 15 minutes direct sunlight on a sand growing medium can dry out the surface and produce dire consequences on emerging seedlings, it is necessary to ensure moisture is available continually.

• A regular supply of water imparts physical properties on the sand particles by holding them together, thus preventing the seed bed from being blown away.

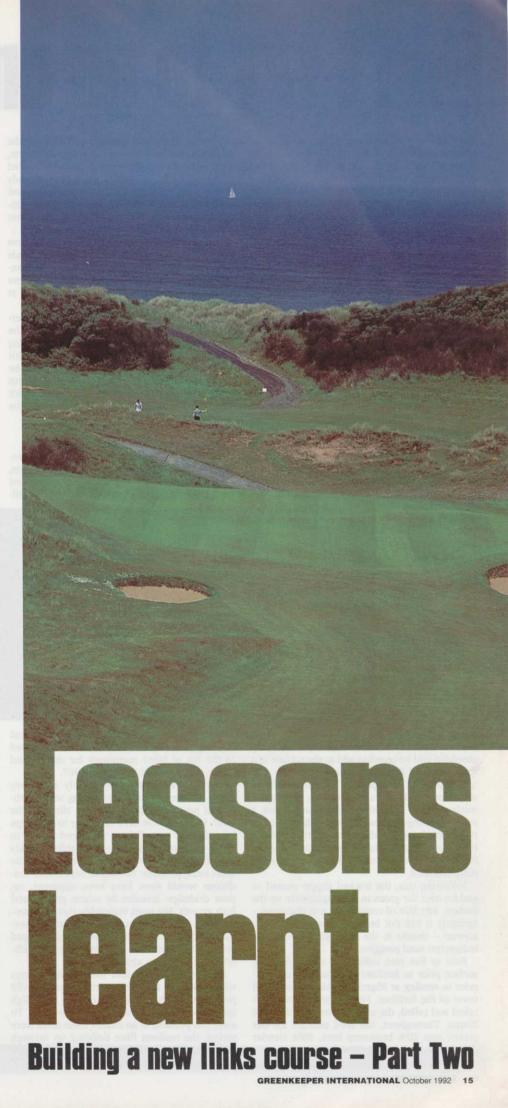
• The regular application of irrigation water firms the seed bed and ensures cohesion between the sand particle and seed coat.

Our view in hindsight was crystal clear: Had sufficient rainfall fallen during that fateful September the new green would not have failed. Equally, had the rains been adequate, the pitfalls of sowing into pure sand would not have been realised!

Work schedule for the entire project

With valuable lessons derived from this exercise, confidence was gained to an extent that a full go-ahead began in April 1987, with all construction and sowing completed by the summer of 1989.

Work began on the greens, with extra labour recruited in order that our existing $\rightarrow 16$



Don't try to go one better

15 \rightarrow course maintenance programme might remain relatively unaffected. Four young men were provided through a Government-run employment scheme known as Enterprise Ulster, the newcomers supplemented by a couple of our green staff to offer local knowledge and essential greenkeeping skills. Financial outlay for these extra men amounted to nothing more than payment of National Insurance contributions in their first year, supplemented by 10% of their total pay during their second year.

Hired machinery requirements amounted to a tracked digger complete with an extremely skilled operator; a 7 tonne tractor with trailer and a tractor-fed soil grading machine. These were further supplemented by our own machinery and included a 4WD 4150 Kubota with front bucket, which proved most valuable.

Construction

Ten greens were built, each begun by a digger removing existing vegetation to expose clean dune sand. Nothing was wasted, for all this stripped vegetation was used to cover various less stable areas within the dune system. Once stripped, the required green contours were arrived at by constant consideration for the surrounding geography, much the same, I imagine, as our forefathers must have done, with no pre-

conceived ideas for green shapes other than from a maintenance viewpoint. It may seem simplistic, but if the shape of the green looked right in its setting there was nothing more to be done!

I felt that the STRI suggestion of ameliorant applied at 70gmsm² was insufficient for the situation and with this in mind, previ-

ously well-composted and friable farmyard manure and black sandy top soil was being shredded and screened to add to the surface to a total depth of 8cms. Granulated Alginure was also applied at 150 gmsm². A tractor-mounted rotovator passed in three directions, thoroughly mixing this to a depth of 25cms to provide a sound growing medium. Though this method of rootzone mixing is perhaps not strictly according to Hoyle, in this instance it proved most successful, probably because of the friable nature of the materials used.

Following this, the tracked digger passed to and fro over the green to thoroughly firm up the surface. Any fear of compaction was dismissed – certainly it has not been encountered at Portstewart – thanks to the rounded shape of our indigenous sand particles.

Four or five men raked and then rolled the surface prior to fertiliser application and again prior to seeding at 35gmsm², this to ensure full cover of the fertiliser. Finally the seed bed was raked and rolled, the seed covered to a depth of 20mm. Throughout, the seed mixture for our greens was 20% browntop bent, 20% slender creeping red fescue and 60% chewings fescue. As there were no pre-conceived plans regard-

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ing green shaping it was difficult to time the introduction of a fully automatic pop-up system, so to begin we had three full circle sprinklers fed by manual take-off points. As I have already written, the wind can destroy a perfectly good seed bed unless it remains moist, thus the temporary irrigation system led to some rather unsociable working hours during darkness.

Before the spring of 1988 the entire course was updated, using impact drive sprinkler heads controlled by a two-wire system. The advantages were clear to see, for a two-wire system allows for additions with minimal disruption at a later date.

Germination at first was a trifle patchy, perhaps as a result of uneven final raking of the seed bed and despite our vigilance in attempting to rake in a uniform manner. To eliminate this human factor in future, final raking should be done by machine to obtain continuity within each site. Notwithstanding that point, with localised overseeding and a lot of patience the end results were well worth waiting for.

Fairways and tees construction

As most of the tees were situated on elevations and therefore exposed to the elements, they were all turfed in the manner mentioned earlier. We have made considerable use of rail-

Nutrition and other chemical treatments

I have purposely left nutritional requirements for greens until now because they are worthy of detailed explanation. During their first full season, our greens received a complete fertiliser containing a seasonal total of 125 units of nitrogen per hectare with sulphate of ammonia; 100 units of phosphate with bonemeal and 100 units of potassium with sulphate of potash. This was applied in four separate applications through the growing season. In addition, an organic liquid – Abbeygrow – and iron sulphate were applied.

Three quarters of the way through the growing season of 1988 the new greens, particularly the fescues, developed a severe attack of corticium, indicating insufficient nitrogen. This situation improved once we applied the last nitrogen application (of the season) to the greens, though the corticium returned once the effects of this had worn off.

The application of Daconil turf fungicide and sulphate of iron kept the disease at bay through the winter months, though I was at a loss to know which move to take next regarding nutritional requirements for these new greens. At that time the STRI had published new information regarding nutrition of sand greens, suggest-



ing that between 250/350 units of per nitrogen hectare per season should be applied. I was prepared to use this lower figure as a nutritional bench-mark and during the second growing season of 1989 regime the changed thus: 250 units of N per hectare using a slow-release fertiliser containing

way sleepers in these areas for steps, seats and defining path edges. A D8 bulldozer was added to the list of hired machinery for this second phase, which started in October 1987.

The fairways were sown mainly on a very sandy growing medium, containing small particles of peat and topsoil, again to 'dirty-up' the sand. It would have been far easier to add large quantities of topsoil from an inland source to allow grass to germinate and establish quickly and though this would have been okay in the short term, problems associated with inland conditions would soon have been apparent, eg. poor drainage; invasion by coarse grasses and lush growth. We must remember that an essential for a pure links course is infertility – something not afforded to us by most inland soils and certainly not soil from building sites that hitherto may have been agricultural land.

However, the fact that these new fairways were sown on such impoverished ground did present us with problems, such as bare high spots and bare areas through bottle-necks. To solve this problem in an instant these areas were turfed, the resilient fibre building up through the rest of the new course and causing the bare and stressed areas to become far less frequent. IBDU; 100 units of K per hectare using sulphate of potash.

In addition, an organic spray, iron and Turfex were also applied, these in six separate applications throughout the growing cycle.

At the end of the 1989 season the bent grasses still had not made any significant advances. The fescue was still strong and no longer suffered from corticium, but small patches of *Poa annua* now colonised the greens.

An observation on my part suggested that the use of slow-release fertiliser, progress of which is out of one's control once applied, was doubtless a factor in the *Poa annua* encroachment, since *Poa* is able to profit from spring warm-up far earlier than the root systems of fescue or bent, which are still to receive the warmth of spring.

The seasons of 1990 and 1991, with the new course now in play, have seen a return to my using straight materials. If my observations suggested their use – and I stress the word observations – up to 250 units of nitrogen were applied in sulphate of ammonia form, spread over six applications through the season, together with sulphate of potash, sulphate of iron and a 100% organic spray.

than nature...

The sandy greens quickly became hydrophobic, but for the last two years the use of Turfex wetting agent at every opportunity has ensured this is no longer the case.

Again over the last two years, mechanical treatments have included scarification; verti-cutting and top dressing with 20% organic matter and 80% dune sand, each treatment carried out on all the greens in order that continuity may be established between old and new alike.

To ensure the establishment of the nitrogen cycle on fairways a product developed by Fisons – Sportsmaster Organic 4 – is applied. Acting as nature intended, this is 100% organic and has the advantage over synthetic slow-release formulations in not building up supplies of nutrients over which the greenkeeper has scant awareness and little or no control. Once sufficient nitrogen is within the cycle, the application of this product will cease.

To summarise, and to answer the title question 'Can you build a seaside links, or is that nature's job?', I think the answer must be yes, but with a number of provisos.

First of all, do not attempt to go one better than that which nature provided in these linksland situations. Bear in mind that one hundred years or so ago, man simply did not have the machinery available today and thus could not stray too far from the features provided by nature. Instead, he had to work with those features. Many world-famous links courses have been the happy result.

Links courses cannot be built and brought to maturity in just a few short years – it has taken nature generations to achieve that. The varieties of grass species used on a links construction must be those native to the area, otherwise the characteristics most desirable in links golf will be lost. This point was quite evident at the most recent Ryder Cup venue of Kiawah Island, where the chip and run shot was non-existent because grasses with differing characteristics were used between green and fairway.

Don't get me wrong, the Ryder Cup at Kiawah was a marvellous spectacle and a great credit to those involved in its staging – but it was not a test of links golf in the traditional form.

Finally, none who are, or may become, managers of links courses should be tempted into prostituting these gifts of nature for a single event, for corny though it may seem; these gifts are part of our national heritage.

■ The author, Bernard Findlay, (pictured right) is course manager at the Portstewart Golf Club, County Londonderry, Northern Ireland.

■ The ultimate seal of approval for Bernard's work on Portstewart's epic construction and development programme came in August 1992, when the Irish Close Championships were staged over the new links. Players were unanimous in their praise, describing the course as 'unbelievably mature' and



'a new golfing paradise'. The chairman of the Ulster section of the Golf Union of Ireland, Peter O'Hara, wrote: 'I have not seem a better kept course, such that no rules decisions were called for throughout the tournament. You are to be heartily congratulated'.

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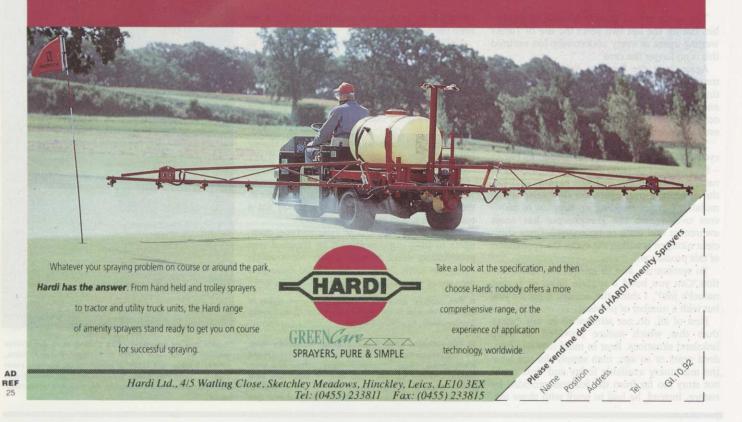
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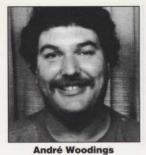




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Candidature for the Toro/PGA European Tour Student Greenkeeper of the Year is surely the dream of every student greenkeeper, for the winning of such a coveted award can quite literally open doors and is often a stepping stone to wondrous career possibilities. Over the years many such candidates, the cream of the crop at their respective colleges, have progressed to positions of importance at famous locations.

Though there can be but one winner, each candidate can feel justly proud at having forged his way through to this final. Selection alone denotes excellence – in written college work; in observation; in grasping and mastering practical skills and, above all, in being the chosen ambassador for their college.

One such ambassador will be rewarded with the title of Toro Student Greenkeeper of the Year, the accolade winging him across the Atlantic to enjoy a Toro sponsored expenses paid visit to the USA, along with residential student membership of the Winter School for Turf Grass Managers at the University of Massachusetts. Previous winners have said they learned more in six weeks than they could possibly have imagined.

Learning the intricacies of tournament course management and set-up will be the prize for two others, who will accompany the PGA European Tour's support team at two specially selected Tour events in 1993.

Following panel interviews at Aldwark Manor on October 12th, results and photographs will be published in the November issue of Greenkeeper International.

THE CANDIDATES

André Woodings – nominated by Reaseheath College

Thirty year old André may well be considered a mature student, for he has been involved in greenkeeping for 14 years, working his way steadily up from humble beginner through assistant greenkeeper to his present task as head greenkeeper at Rothley Park, a position he has held for the past two years. Under his direction, Rothley Park has, in the opinion of members, gone from strength to strength. He considers this his greatest achievement and is proud that his course has been chosen as the venue for the IMS Championships in 1993.

For over 12 years André relied on practical experience alone before the lure of education finally took him to Reaseheath (on block release) and a course in Greenkeeping Management. His future aspirations lean toward achieving Master Greenkeeper Certification. Course tutor, Denis Mortram speaks highly of his practical skills and of his determination to succeed. In summary, Denis is sure that André's nomination will uphold the traditions of previous nominees.

Ian Whitehead – nominated by Askham Bryan College

Twenty two year old Ian has been a greenkeeper for seven

years, entering the profession as a YTS trainee and working now as first assistant to the talented Gordon Brammah at Hallamshire Golf Club. His chosen college course, City & Guilds Phase II in Greenkeeping and Sportsturf Management, has meant considerable travelling from his home in Sheffield to Askham Bryan, but the discipline has clearly been worth while.

Quite apart from academic successes achieved thus far; Ian is not content to rest on his laurels. His immediate plans include taking supervision and management modules at Askham Bryan, this as part of a planned career path that will lead to his becoming a head greenkeeper.

On the golfing front, Ian is well known in Sheffield circles as a solid nine handicap player who on four occasions has taken top honours in section tournaments. He has twice qualified for the Iseki finals.

Paul Brannan – nominated by Langside College

In telling us about Paul, college tutor Colin Urquhart wrote "Paul has entered greenkeeping after completing a three year craft level apprenticeship and training in Amenity Horticulture. Since Glasgow District Council Leisure and Recreation Services bestowed upon him the honour of helping to care for and maintain the city's municipal golf courses, Paul has returned to the School of Horticulture determined to prove that he is as good a greenkeeper as he is a horticulturalist.

"His diligence and quiet but positive manner brings an assured, competent air to all the challenges of college and superb SNC results prove his genuine abilities in his chosen field. Paul's mature, friendly ways make him a popular student with both college staff and his student greenkeeper peers. Paul intends to further his academic career in our new HNC in Golf Course Management".

On a practical front, Paul has recently spent time learning of the installation and control functions of an automatic irrigation system and is involved in building a new green. Though only twenty, his long term aspirations lean toward managing a championship golf course and at some point becoming involved in course architecture.

Matthew Horton – nominated by the Welsh College of Horticulture

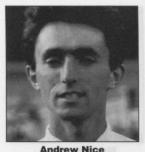
Twenty three year old Matthew has just gained promotion to head greenkeeper at Builth Wells GC, well deserved when one considers his splendid academic achievements. He began his career as an apprentice groundsman, during which he sat C&G Phases I&II in General Horticulture. This was followed with a one year NCH in Amenity and Landscape at Pershore College, resulting in a pass with distinction.

Moving to Builth Wells in 1984, he became an assistant greenkeeper and attended the Welsh College to sit C&G in Greenkeeping and Sportsturf Phase II – he finished as top student in both years! Promoted to head greenkeeper this year, he now plans to sit Phase III Management and, when qualified, would eventually like to work abroad.

His college tutor, Graham Wright, wrote in glowing terms of Matthew's rapid progress, a feeling shared by Matthew's club secretary and chairman of green. Graham is particularly pleased that Builth Wells are responding to the advances within the golf industry, eager to be in the forefront of golf provision in Wales. As he rightly asserts, should Matthew become Student greenkeeper of the Year, it will make Welsh clubs sit up and take note of 'The Way Forward'.

Mark Anderson – nominated by Sparsholt College

We could tell by the comments of Sparsholt's tutor, Bob Young,





Barry Neville



Martin O'Rawe

THE CANDIDATES



Anthony Gooch



Adrian Porter



that he holds thirty one year old Mark in high esteem. From a career which began as a young entrant in the Army, one which took him to Central America, Germany and Northern Ireland, Mark had the misfortune to be disabled in a training accident and he was invalided out of the Army in 1985.

New career training began with a spell at St Loyes College for the Disabled, studying horticulture, followed by rewarding work experience on a golf course. Though there were to be other work experience sorties it was in golf that Mark found his forte – and he joined Broadstone GC as a trainee greenkeeper.

Bob Young told Greenkeeper International that Mark meets every criteria for his deserved nomination, which came from both peers and tutors alike. He has worked hard to complete his Phase II Greenkeeping and now plans to progress to Phase III Greenkeeping Supervision.

Mark, now an assistant greenkeeper at Broadstone, is dedicated to his new career and is a highly respected member of the club's professional team. He is a 'dab hand' with a shotgun, having won several trophies for clay pigeon shooting.

Andrew Nice – nominated by Plumpton College

Thirty year old Andrew is now supplementing a wealth of practical experience acquired at three golf clubs with the off-the-job training he is obtaining at Plumpton. His position as first assistant at Fernwell easily allows him to pass on his acquired know-how to others on the workforce – an experience he is savouring.

Course tutor David Blackmur told us that Andrew has a real thirst for knowledge and that coming straight onto the Phase II option proved no stumbling ground whatsoever. Andrew is looking forward to continuing the learning process next year with the Phase III course and, in David's words, is a thoroughly deserving student to take the mantle as Plumpton's chosen representative.

Andrew joined his present club as first assistant and was delighted when they willingly sponsored his college entry – "to provide me with a theoretic base to back up my practical experience" – as he put it. Undoubtedly his college course has brought him one step nearer to his ambition of becoming a head greenkeeper.

Andrew enjoys running and has competed in several half marathons – no doubt he will don tracksuit and sneakers for early morning sessions at Aldwark Manor!

Barry Neville – nominated by Oaklands College

Barry began his golf career in 1987 whilst still at school studying for A levels. The golf centre where he now works as an assistant greenkeeper did not exist when he commenced his part time work, though he thoroughly enjoyed the involvement of construction work on land that hitherto had been nothing more than arable farmland.

After gaining eight O levels and two A levels he went to Polytechnic, but soon found the outdoor life more to his liking and began full-time employment at the golf centre, which now boasts a complementary 18 hole golf course.

After just one year at the 25 bay golf centre Barry decided that his particular way forward was to become fully qualified and he wisely opted for a course at Oaklands, where he has just completed Phase II Greenkeeping and Sportsturf Management. Not content to rest on his laurels, he will continue studying next year, taking a Business Management course as the next stage to his ultimate aim, one of becoming a head greenkeeper at a top class golf course.

Barry, now 22, enjoys cricket and golf, as well as being a keen photographer.

Martin O'Rawe – nominated by Elmwood College

Like so many young greenkeepers, Martin began his career as a YTS student. He joined the worldfamous Royal Dornoch and as a result of his excellent work, both on the course and at Elmwood, was offered an apprenticeship.

Attending Elmwood on block release, he has recently completed his three year National Certificate in Greenkeeping course, gaining all modules with ease and winning the coveted St Andrews Trust Award for Best Practical Work, earned during the years of 1991-92.

Though he is only 20, Martin recently moved on to take up the position of greenkeeper at the South Course at Wentworth, the first stage of his declared ambition: working on a course that stages Tour events. From this base Martin aspires to working around the world, eventually moving into course construction and finally retiring to Scotland as a rich man!

Martin is a grand golfer who plays to a handicap of seven – he won the Most Improved Golfer award at Muir of Ord Golf Club and has played to single figures since his teens.

Anthony Gooch – nominated by Cannington College

Tony Gooch has been nominated for this award not just as a result of his tutors choice but as the choice of his peers. In the words of his lecturer, Nick Rigden, "Tony represents in many ways the model greenkeeping student. He is highly motivated towards his job and his Phase II Greenkeeping/Sportsturf Management course, producing a standard of work that has been consistently high. He plans to proceed toward Phase III Greenkeeping Management this autumn.

"Although he has been in greenkeeping a comparatively short time the world of golf is one with which he is entirely familiar, for he has been a member of Torrington for 10 years and has served on committee. His opportunity to manage Torrington, a 9 hole heathland course characterised by its dry acid soil, came just two years ago.

"A nine handicapper who has won his way into two national finals, 31 year old Tony is able to perceive the job of preparing a golf course from the players point of view.

"He is especially interested in the constructional aspects of golf courses and produced an excellent college project on modern greens, tee and bunker construction".

Adrian Porter – nominated by Warwickshire College

Adrian began his career as a landscape gardener, travelling the country installing cricket pitches. This led to his being appointed as a gardener and gave him his first taste of golf course work when he became involved in construction work at Western Park Golf Course. The decision was made move into golf course maintenance proper - and this led him to his becoming assistant greenkeeper at Scraptoft GC. Now, some two years later, he is deputy head greenkeeper and enjoying every minute of his new found career.

Having already achieved C&G in Horticulture, Adrian recently completed Phase II Greenkeeping and Sportsturf Management under the tuition of Andy Cole and he plans to take Phase III this autumn.

Paul Rabbich, his current lec-