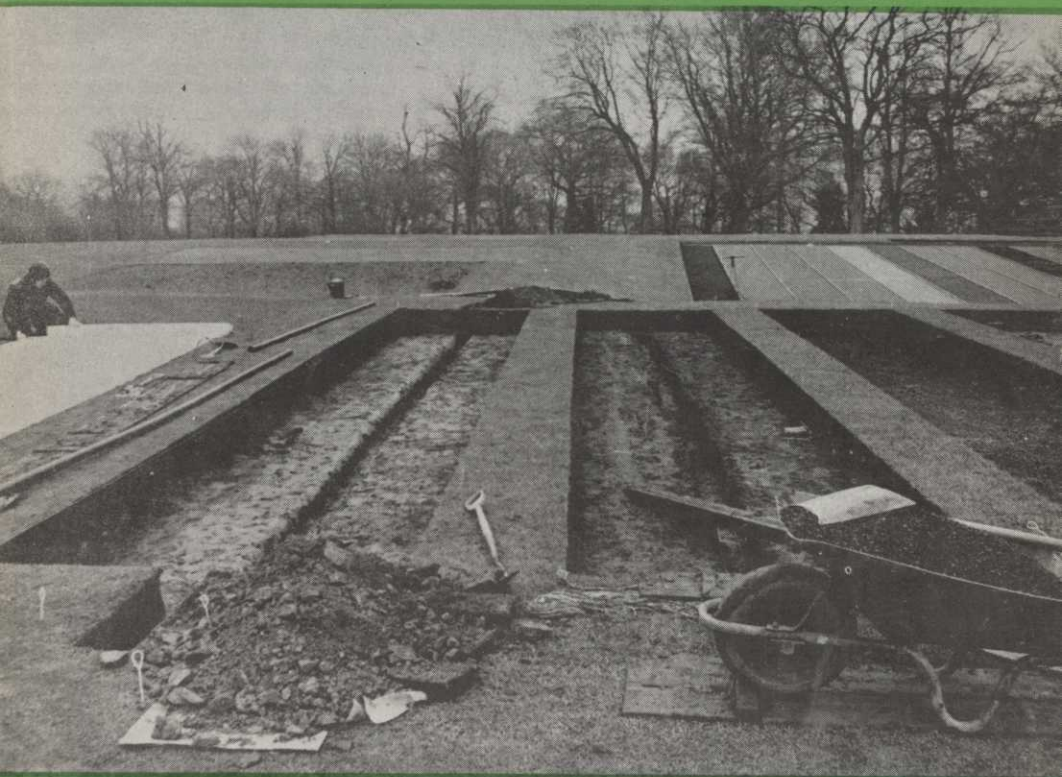


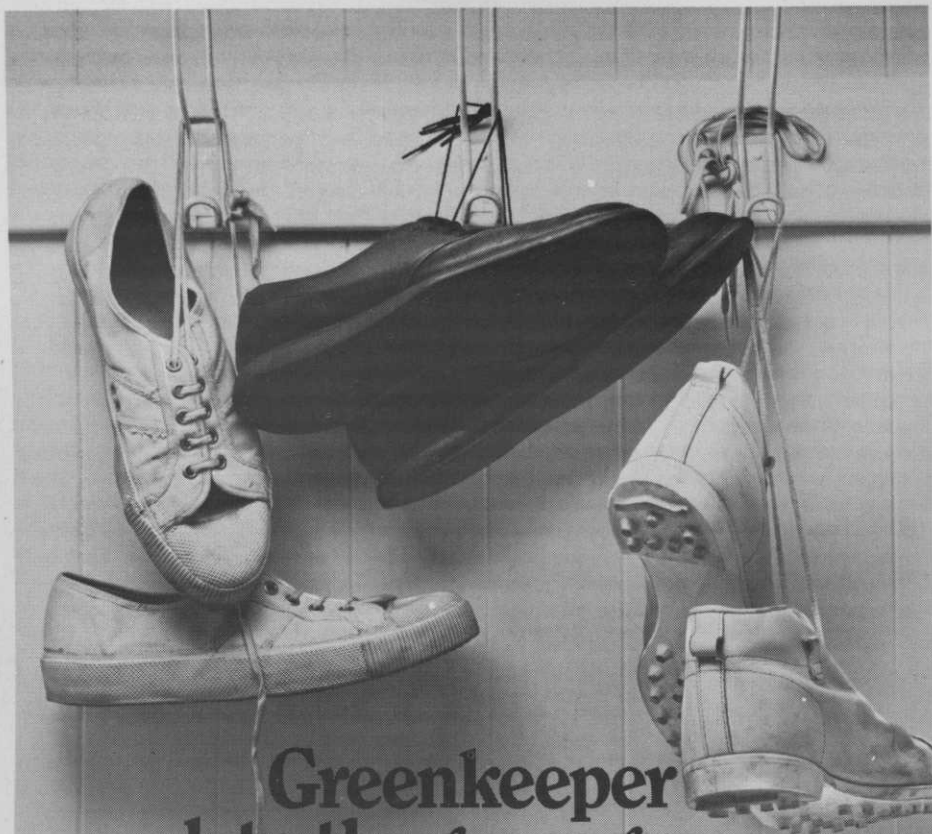
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No. 375

August 1976

15p



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This month's Front Cover illustrates the preparation of a trial on Soil Moisture Control at St. Ives, the S.T.R.I. Research Station. One of the most important aspects of good turf management is moisture control; maintaining sufficient water in dry weather and getting rid of excess in wet weather. (Photo by courtesy of the S.T.R.I.)

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The British Golf Greenkeeper

TURF DRAINAGE

—applying new concepts in drainage design to the Golf Courses

C.J. Head. Chipman Limited. Date: 29th June, 1976

THE subject of sports turf drainage has received a great deal of attention in the past few years with much of the research effort and published work emanating from Dr. V. I. Stewart and Dr. W. A. Adams of the Soil Science Unit, University College of Wales, Aberystwyth. Although attention has been centred on the severe problems of waterlogging in soccer and rugby pitches the principles, problems and solutions apply closely to the golf course situation. The intention of this short paper is to attempt to identify areas where new concepts and techniques could be usefully applied to golf course design or management.

DRAINAGE DESIGN

The objectives of drainage design on a golf course might be defined as follows:

To ensure that:

- (a) At no time of the year does waterlogging prevent play, even during periods of prolonged rainfall.
- (b) Excess water is removed rapidly so that an optimum moisture state for plant growth can be maintained.

In stating the first objective the question is raised as to what rate of water removal would be required to drain water as quickly as it falls. At what rate would the rain be falling, and for how long? How often would such rainfall be expected to occur? To design a highly intensive drainage scheme to cope with a rainfall intensity which may occur only very infrequently could be considered uneconomic and the slavish interpretation of the first objective regardless of cost considerations would seem unreasonable. None-the-less an attempt to quantify the requirements must be made. In the light of past history of drainage failures it is not stating the obvious to say that if a drainage scheme is to be designed it must be decided what it is intended to achieve. How else can its success be anticipated or

satisfactory performance measured?

TARGET DRAINAGE DESIGN RATE

Even in localities where there is no theoretical drainage requirement, i.e. where annual rates of moisture loss from evaporation from the soil surface and transpiration through plants combine to exceed the amount of annual rainfall, there will be occasions when precipitation is heavy for short spells and the drainage needs must therefore be considered. In Britain generally annual rainfall is about twice as much as can be removed by evapo-transpiration and the risks of surface accumulations will be very real.

In choosing a target rate for drainage a guide can be obtained by studying local rainfall data, from which the probability of a certain level of rainfall occurring can be reasonably predicted from the frequency with which it has occurred in the past.

For example, if rainfall data over the past 50 years indicates that the number of occasions during which the soil is at field capacity when rain falls at say $\frac{1}{4}$ inch/hour for one hour is only on average once per year, then unless the course is very important indeed it would seem unnecessarily expensive to fix the drainage design rate to meet this event, i.e. 6 inches/day. If it so happens that an important tournament coincides with that single occasion of the year it would be very unfortunate—clearly it is a matter of probabilities and the important thing is that sensible judgements can be made when the appropriate information is available.

An overall drainage design rate of at least one tenth inch per hour (2.5mm/hour) or between 2-3 inches per day would not be an unreasonable minimum target in Britain. Higher rates may be chosen for priority sites and in practice the cost/benefit ratio for installations greatly improves with higher target design.

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ACHIEVING SATISFACTORY DRAINAGE

Rain can do two things when it hits the ground: It can infiltrate the soil or, if the rate of precipitation exceeds the rate of infiltration, it will accumulate on the surface or flow towards lower areas. There are two obvious ways therefore of removing excess water, intercepting it at

(a) By allowing it to flow through the soil to drains

(b) By intercepting it at the surface.

Both techniques will be called upon in golf course drainage, and having chosen a drainage rate for a scheme it is essential, to ensure success, that every part of the system is quantified.

If water is required to flow through soil then it is important that the hydraulic conductivity of that soil is known because the rate at which water moves through will determine the spacing required of drains. Natural unassisted drainage can only occur at rates in excess of one inch/day in very sandy soils or in finely textured soils possessing good granular structure to depth. Few inland courses will have sufficiently sandy soils and the maintenance of adequate structure in heavily trafficked fine-texture soils will be unlikely. For example, a well structured soil may have a hydraulic conductivity initially of say 20 inches per hour. This structure can collapse with tread in the wet to the extent that its hydraulic conductivity reduces in a very short time to as little as a thousandth or even a ten-thousandth of that figure, i.e. 0.002 inches per hour.

DISTINGUISHING BETWEEN AREAS WITH DIFFERENT REQUIREMENTS

A study of the topography of the area will reveal those areas which are, because of their relief, shedding areas for water and those which are low receiving areas. The first essential of course is to cut off the former from the latter. If the course can be divided into self-contained sections in this manner, with each area isolated from the influence of extraneous water from any other area, and each possessing its own outfall. The cut-off drains will be continuously permeable

and contain backfill material at the surface of sufficient size to enable water from the entire catchment area it serves (measurable) to be intercepted at the design rate. This cut-off system can form the basic skeleton of main drains and must be of the required size. Manufacturers pipe data charts will show the capacities. For example a final single outfall main carrying the accumulated discharge of 20 acres at 2 inches per day potential will need to be 10 inches in diameter at 1 per cent slope. All situations are calculable and nothing must be left to guesswork.

Having cut the site down to size in this manner the special needs of individual sections can be considered. There will be good and bad areas but in many parts of the course management can be aimed at maintaining good natural structuring by encouraging the soil biology. If necessary chemically and mechanically. Unless the area is underlain by a subsoil of sufficient permeability to function as a natural soakaway there will need to be a full system of drains of continuously permeable construction to the surface, across the slope, so that as well as receiving water through the topsoil they can also act as surface water interceptors. It is only in this way, on most soils that drains may be installed at spacings as wide as 5 or 6 yards, if drainage rates indicated are to be achieved.

The same drain system, possessing as it does, permeable backfill, for example sand, to the surface, built with a view to providing for well structured soil areas can be used as the skeleton for areas where structure is non-existent or will be expected to collapse with tread in the future.

DE-STRUCTURED SOILS

If water cannot be moved through the soil at an acceptable rate then either the soil must be replaced, or amended, or excess water must be removed at the surface. Few fine textured soils can be adequately improved by the simple addition of sand as in most cases so much sand would be required to make an effective improvement that the surface would

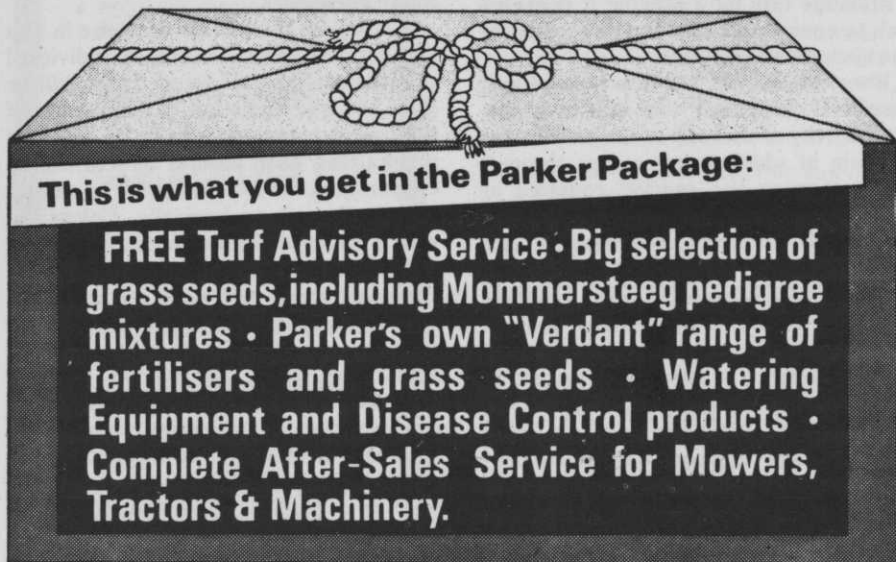


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be destroyed in the process. If, say, it took 9 inches of sand to suitably amend 1 inch of soil (as is often the case) the cost would be exorbitant.

Recent techniques of surface water removal by interception include sand slitting, by which means vertical bands of sand are installed in the soil, and intersect the permeable backfill over drains. These are set at spacings adequate to intercept surface flow across slope and the spacings, depth, width, and hydraulic conductivity of sand, all have a bearing on their performance. All are quantifiable. An appropriate system can be chosen to link with a given drain spacing to preserve the target design rate. To function efficiently in the long term sand slits must not be capped at the surface by soil but must be maintained in a sandy condition by top dressing if they are to continue to meet the drainage rate requirement. New techniques of maintenance by "microslitting" to renew the surface link when necessary have been developed.

SPECIAL CONSTRUCTIONS

Where imported material is to be used in construction the opportunity presents itself of quantifying drainage from a knowledge of the characteristics of that material. Drain spacings within greens or tees can be specially suited to the hydraulic conductivity of the entire depth of construction and can be considered separately if higher-than-elsewhere drainage rates are to be selected for these special areas. The hydraulic conductivity of sand/soil mixtures used in cons-

truction will reduce considerably with compaction. It is therefore important that drainage designs are based on measured values of compacted material.

Sand slits have been installed in existing greens and subsequently management has secured a perfectly true surface. The time this takes to achieve will depend on the amount of attention given to surface truing afterwards. There is some surface heave following sand injection but as important major surgery which has to be performed once only to cure a waterlogged green the trouble required in reinstatement could be considered insignificant.

The treatment of greens which have developed problems of thatch formation or layering within the profile whether by mismanagement of top dressing practices, irrigation, feeding, soil chemistry or whatever other cause is outside of the scope of this short paper. It is pertinent however to note that in severe situations by-pass systems, such as sand slits, may present the only short-term solution which is conducive to its subsequent improvement by chemical or physical means.

STEP-BY-STEP CONSTRUCTION

Systems such as these described lend themselves to step-by-step construction. Having chosen a design rate work can start with out-offs for main sections; to these can be added the skeleton of permeable-fill drains within sections; concentration can then focus on adding the flesh—managing the soil structure on the large scale and installing slit or recon-

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SYSTEMS THAT REALLY WORK

Whether installed at the outset or piecemeal one thing is vital—whatever is done must be done with the complete confidence that it is part of a planned system that can be expected to work in the manner it was designed to. Drainage schemes installed to a traditional pattern without an understanding of soil/water relations, whose working or not working is left in the hands of fate and thought to be outside of the control of the designer should become a thing of the past. All is measurable, all is quantifiable, and the benefits to accrue to the well being of the course, and the game, from informed management of drainage will be considerable.



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A NOTE FROM THE SECRETARY

THE Objects of the British Golf Greenkeepers' Association are:- "To advance Golf Greenkeeping, to assist and encourage the proficiency of members; to arrange lectures, functions and competitions; to collaborate with the Sports Turf Research Institute; and to effect any other objects of a like nature."

In accordance with these objectives members are receiving 12 monthly copies of the B.G.G; a yearly copy of the S.T.R.I. Journal plus four quarterly Bulletins; an Annual Tournament—three days of Golf open to all members; a Symposium arranged to take place on the 5th Oct. 1976; an Executive Committee of Members who meet to discuss many matters including Subscriptions, Wage Scales, Tournaments etc., the Secretary has attended committee meetings of the Standing Conference for Golf Greenkeeping, also the Askham Bryan College, York, and City and Guilds, London to

arrange a syllabus for Greenkeeping. The Section Secretaries arrange various competitions, lectures, dinners, general discussion groups etc. throughout the year.

Most members will, I am sure, agree that the objects of the Association are being strenuously pursued. It is of course appreciated that a number of members are unable to attend all the meetings, lectures etc. due to the distance involved. We have already this year welcomed a new section in the East Anglia area and enquiries have been received from another area regarding the starting of a further section. Any member who feels too far away from arranged activities can, if he has sufficient support and interest from nearby colleagues, start a new section. This would, of course, be subject to the agreement of the section concerned and the Executive Committee.

The policy of the Association is based on a majority decision and any member can put forward his views through his Section Secretary, Executive Member or the Association Secretary.

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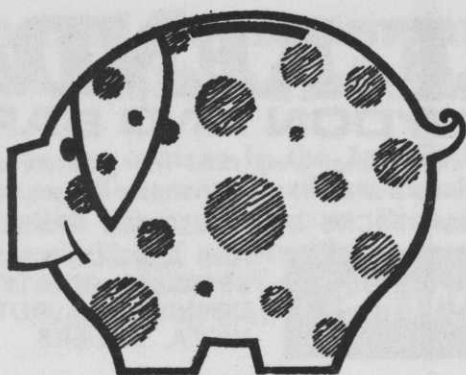
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Annual Tournament at Walton Heath

We apologise for the mistake in the July British Golf Greenkeeper—the Annual Tournament will, as members know, be at Walton Heath Golf Club and not at Walsall Golf Club as mentioned on page 11 last month. Please note that holders of Trophies should return them to Walton Heath Golf Club, and not Walsall Golf Club as mentioned.

IMPORTANCE OF GREENKEEPERS' TRAINING

A meeting was held recently at Ransomes Conference Centre at their Ipswich headquarters for people from the golf clubs of Suffolk, Essex and Norfolk, interested in the training of greenkeepers.

Chaired by Mr. J. J. Kerrison, Secretary of the Suffolk Golf Union, the meeting was addressed by Mr. Geoffrey Richards, training co-ordinator for The Standing Conference for Golf Greenkeeping and Mrs. Richards, who is working with her husband on this project.

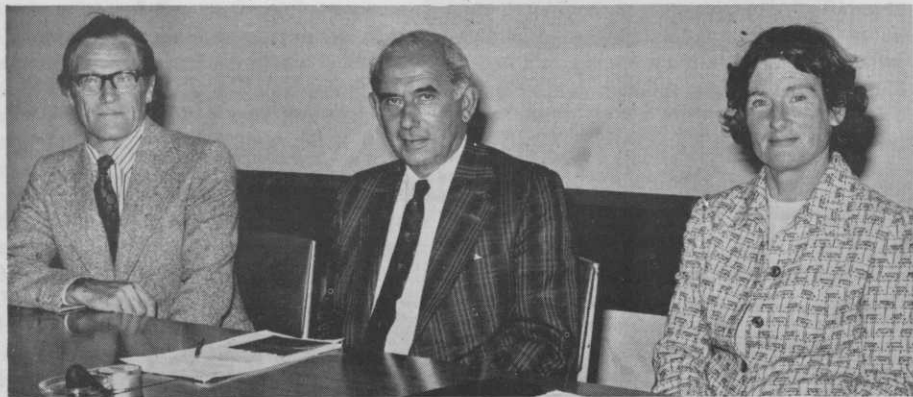
This was the final meeting of a series which have been held throughout the

U.K. to make people connected with golf aware of the training schemes being organised for golf greenkeepers.

Mr. Richards reported that schools have been circularized to make careers teachers aware of greenkeeping as a profession, and that colleges were co-operating in providing the necessary courses.

Indeed, there were representatives from the agricultural colleges of Norfolk and Suffolk at the meeting, together with greenkeepers, chairmen of green committees, golf club secretaries and members of the golf union.

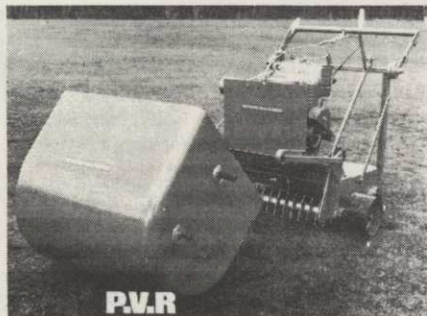
Mr. Geoffrey Richards, training co-ordinator for the standing conference for Golf Greenkeeping, Mr. J. J. Kerrison, Centre Secretary of the Suffolk Golf Union, and Mrs. Richards, at the recent meeting at Ransomes Ipswich headquarters for people from golf clubs of Suffolk, Essex and Norfolk interested in the training of greenkeepers.



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Bolton, Lancs.

SPRING TOURNAMENT

OUR thanks to the Captain, Mr. Owen, and Directors of Hillside Golf Club, Southport, for their kindness in granting the members of the North West Section the courtesy of their course and facilities of the clubhouse on the occasion of our Spring Tournament, and for the warmth and courtesy extended to us. Thanks also to George Lloyd and his staff for the excellent condition of the course, the green in particular, to the catering staff for the two excellent meals, Messrs. A. Jones, G. Vaughan, N. Barlow, for their help in taking care of the cards and monies, to the members who took part in the tournament, and helped to make it the undoubted success it was, and to my committee for their help over the past year, about 80 members sitting down to the evening meal.

Here I must give a special vote of thanks to the Prize Donors, both private and our friends in the trade as follows: Messrs. G. Rimmer, Hillside G. C. J. G. Hewitt, Professional, Hillside G. C. F. Longworth, Swinton Park G. C., T. Wolfenden, Swinton Park G. C., P. Parkinson, Swinton Park G. C.,

E. Walsh, N. W. Section, H. M. Walsh, N. W. Section, Martin Bros. (Sand Sales), Fisons Ltd., Sisis Ltd., Sutton Seeds Ltd., Supaturf, Chipman Chemicals, S. A. I. Horticulture, Wilcocks Ltd., Theo. Wilson & Son, Joseph Metcalf & Son, Rigby Taylor Ltd., Ockleshaw Ltd., Reg. Daniels, Arden Lee Irrigation Ltd., North West Section.

Our sincere thanks to the Captain, Mr. Owen, for Presenting the prizes to the winners as follows, all over 27 holes.

AUTUMN TOURNAMENT

AS stated in previous issues of the journal the Autumn Tournament will be played over the Whitefield Golf Club's course at Higher Lane, Whitefield, Nr. Manchester, on Thursday, the 7th of October. Will all members taking part please let me have their entry and the approximate starting time they wish, as once again there will be a starting sheet owing to the large numbers of entries we are now receiving, also meals required. 18 holes will be played in the morning and 9 holes in the afternoon. Starting times from 8.45 a.m.

DINNER DANCE

Will all members who are interesting in attending a Dinner Dance to be run in the Autumn please let me know so that we have an idea of the numbers who would be prepared to attend. You may also invite your friends if you wish. Please let me know as soon as possible.

NEW MEMBERS

We welcome to the Section the following new members and hope their association with the section will be a happy one. B.T. Drinkwater, Dunham Forest Golf Club, Cheshire. W. J. Sparrow, Whalley Golf Club, Whalley, Nr. Blackburn. A. Fielding, Harwood

Golf Club, Bolton, Lancs. C. Hughes, Hoylake Golf Club, Wirral, Honorary Member.



Mr. E. Staniforth, Managing Director of SISIS Equipment [Macclesfield] Limited presents Mr. S. Bridges with the SISIS Trophy for North-West Greenkeepers at SISIS recent Golf Tournament for North-West Greenkeepers at Macclesfield Golf Club on Tuesday 27th April, 1976.

South West Section

Chairman:
R. GATES

Hon. Secretary:
M. R. LYONS
33 Pensfield Park,
Westburn-on-Tryn,
Bristol.

The John Ireland Tankards were played for at Weston-Super-Mare G.C. (Greenkeeper Jim Carter) on Monday, 24th May, the competition was in the form of a 18 hole Greensome. 27 members attended and 24 completed and the results were as follows:

1st: T. Graham (Enmore Park), P. Worcester (Cirencester) Nett 68, Gross 78.

2nd: L. Croad (Enmore Park), P. Hedges (Bremhill) Nett 69½, Gross 78.

1st Gross: M. Gray (Long Ashton), M. Dodd (Burnham & Berrow) Nett 71, Gross 78.

3rd Nett: R. Gates (Westonbirt), A. Bott (Bremhill) Nett 74, Gross 88.

We all enjoyed the afternoon and thought that Jim and his staff had the

course in excellent shape.

1st Nett	P. Shaw	102½	
2nd "	H. M. Walsh	104½	
3rd "	S. Edgerley	105	
4th "	G. Moseley	107	
5th "	J. Wright	109	
6th "	P. Chapman	110	
7th "	J. Robinson	111½	C.P.O.
8th "	P. Taggart	111½	"
9th "	E. Walsh	112½	
10th "	D. Robinson	113	C.P.O.
11th "	P. Kelly	113	"
12th "	R. Lewis	113½	
13th "	G. Macdonald	114	
14th "	A. Leonard	114½	
	J. Leonard	115½	C.P.O.
16th "	S. Bridges	115½	"
17th "	A. Millburn	116	
18th "	H. Smith	116½	
19th "	K. M. Greenwood	117	
20th "	T. Holmes	117½	
21st "	J. T. Mudge	118	
22nd "	D. Golding	118½	
23rd "	W. Sumner	119	
24th "	S. Richardson	120	

Guests over 18 holes

K. Gouch	1st Nett	75	C. P. O.
P. Edgerley	2nd Nett	75	C. P. O.

Best Gross

E. Walsh 114

Over 50s Presidents Challenge Trophy
H. M. Walsh 104½ Nett

The A. G. M. took place in the evening and the following Officers were elected: President: D. B. Hargreaves. Vice Presidents En-Bloc. Chairman, R. Janovskis, Secretary, H. M. Walsh, Treasurer, D. Golding, Vice Chairman, J. Bond, Members of the Committee, Messrs. O. P. Jones, R. Vickers, E. Walsh, G. Lloyd, D. Robinson. Our new Treasurer's address is as follows:

D. Golding, Esq.

38 The Grove,

Flixton,

Manchester 061 748 8592

and I would draw all members' attention to the fact subs are now due as decided at the extraordinary meeting at Birmingham and passed by the members as follows: Head-Greenkeeper Class A £7, 1st Assistant Class B £5, Assistant Class C £4, Class D Greenkeeper/Pro £5.

AUTUMN TOURNAMENT

I have pleasure in informing members that the Captain and Directors of Whitefield Golf Club, Higher Lane, Whitefield, Manchester, have been kind enough to grant us the courtesy of their course for the playing of our Autumn Tournament, so gentlemen put this date in your diaries, Thursday, 7th of October, details nearer the time.

As discussed at the A. G. M. any member interested in making the trip to Motspur Park on September 8th please contact Mr. A. R. Faulkner, 38 Woodfield Road, Cheadle Hulme, Stockport, Cheshire, before June 25th who will give you all the details you want.

Congratulations to T. Brennan and G. A. Hall on their retirement which we all hope will be a long and happy one. T. Brennan now becomes an Honorary Life Member.

NEW MEMBERS

We welcome to the Section the following new members and hope their association with us will be a happy one. L. J. Hogarth, Dean Wood Golf Club; R. A. Brown, Withington Golf Club; L. Kernot, Grange Park Golf Club; J. T. Mudge, Macclesfield Golf Club; D. J. Fleet, Manchester Golf Club.

Sheffield Section

President:
S. K. ARNOLD

Hon. Secretary:
B. V. LAX
153 Kilton Road,
Worksop, Notts.

THIS year's first golf competition was our Presidents Prize Day, which this year was held at Worksop G. C. on the 25th of May. We have had a very dry time of late, but on the morning of the match it simply poured down with rain. I think it tried to make up for lost time. By the afternoon and tee off time the rain had almost stopped and the afternoon turned out quite good.

Our President, Mr. S. K. Arnold, came along to present the prizes that he had kindly given. The winners were:
1st F. Frost (Sickleholme G. C.)
2nd P. Quartermaine (Worksop G. C.)
3rd R. Ward (Matlock G. C.)

Mr. Arnold thanked Worksop Golf Club for allowing us the use of the course. After the prize presentation those present sat down to a very nice meal.

AS promised here are the details of our A.G.M. held on May 25th. The meeting was presided over by our Chairman, Mr. G. Herrington, as our President, Mr. Arnold, was unable to attend and sent his apologies.

Elected Officials were as follows:-
President: Mr. S. K. Arnold
Chairman: Mr. G. Herrington
Vice Chairman: Mr. N. Maltby
Committee: Messrs. B. Lunn, E. Palmer, L. Allsebrook, H. Herrington, F. Frost and D. Neve.

Secretary/Treasurer: B. V. Lax
EXECUTIVE COMMITTEE REPRESENTATIVE

This position was taken over by Mr. H. Herrington, he takes over from his father. Harry has got a lot to live up to as his father George has done the job very well for a very long time. Thank you George for all the work you have put in on behalf of the Section.

COMPETITION SECRETARY

Again this is to have a new name in the position. Mr. P. Quartermaine has agreed to tackle the job and I hope you will give him your support in running our matches. Thanks to Eric Palmer for his work in this position in the past.

The meeting was fairly well attended and all those present were in agreement that we must all pull together to make the Greenkeeper's lot a better one. We could not see why some people wanted to go it alone, as this seems to be the wrong way to make us a strong and united voice that could be heard in the world of golf.

Northern Section

Chairman:
COLIN GEDDES
Moor Allerton
Golf Club

Hon. Secretary:
W. HEELES
7 Tentergate Close,
Knaresborough, Yorks.
Tel: K'boro 3851

August ditty:
"When the peacock loudly bawls,
Soon we'll have both rain and squalls."

A unique meeting took place on June

8th at Askham Bryan College of Agriculture, York.

Northern Section Committee men, Messrs. Geddes, Hannam, Heeles, Mawson, Roberts, Robertshaw, Scott and Spurdren were received by the College Principal, Mr. Gilling, and Mr. Wilmott, Head of the Horticultural Department.

This meeting marked the initiation of what is hoped will be a lasting and beneficial association between Askham Bryan and the Northern Section. Its purpose was to acquaint those present with the plans which have been formulated for the greenkeeping course scheduled to begin in September.

As mentioned in last month's journal this course is being mounted by the Government's Training Services Agency and will recruit students from outside the greenkeeping industry. Askham Bryan is one of two centres in the country selected to run this particular course: Lancashire College of Agriculture is the other.

As yet nothing definite has been worked out for the educational assistance of existing green staff, although it is intended that this need will be catered for in some way at a future date.

Mr. Gilling very kindly informed us that the facilities obtaining at Askham Bryan were at our disposal at all times. In return an assurance was made that the full co-operation and assistance of the Northern Section is available to Askham Bryan and their new venture.

NEW MEMBERS.

The Section extends a warm welcome to the following new members:-

Mr. Herbert Brook, 164 Spencer Street, Keighley. Head Greenkeeper, Branshaw G.C., Oakworth, Keighley.
Mr. Donald M. Leyden, Leeds G.C. Cobble Hall, Vice President.

Rigby Taylor Limited of Bolton, have appointed Mr. Keith S. Wishart as their new Representative for Yorkshire, Durham and North Lincolnshire areas. Mr. Wishart is based at York (telephone number York 791697) and has recently joined the British Golf Greenkeepers' Association.

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Midlands Section

Chairman:

V. W. SMITH

Hon. Secretary:

A. KITE

5, Lillington Close,
Sutton Coldfield,
West Midlands.

THE Captain and Members of Ladbrooke Park Golf Club Ltd., Tanworth in Arden, Solihull, West Midlands, have kindly given their permission for our section to use their course and club for the purpose of our Autumn Tournament on Wednesday 29th September, 1976. The closing date for this tournament is the 13th September, 1976. I would like to thank most of the members of the Midland Section for the way in which they have co-operated this season in letting me know their intentions as far as playing these tournaments is concerned. Arranging meals etc., is always much easier when members help in this way.

I would like to welcome into the section the following new members:-

B. Jervis, Pye Hayes G.C. Class A
D.N. Smedley, Bulwell Forest G.C.

Class C

T. Smedley, Bulwell Forest G.C. Class C

SPRING TOURNAMENT—LITTLE ASTON GOLF CLUB

11th MAY, 1976.

Best Gross	T. Morris	124	Sutton Cup—Decanter
1st NETT	V. Smith	111	Ransomes Cup—Watch
2nd ..	N. Pulen	118	1 Bottle Whiskey
3rd ..	G. Woodward	120	1 Bottle Brandy
4th ..	P. Johnson	121	1 Bottle Sherry
5th ..	A. Cutler	121.1/2	Jumper
6th ..	R. Goodwin	122	1 dozen Golf Balls
7th ..	D. Haynes	122.1/2	Umbrella
8th ..	I. Lowe	123	1 dozen Golf Balls
9th ..	N. Jones	123.1/2	1 dozen Golf Balls
10th ..	J. Hughes	125	1 Bottle Sherry
11th ..	C. Frost	125.1/2	Glove
12th ..	A. Boraston	126 Last 9	Ash Tray
13th ..	W. Boyce	126	1 Bottle Sherry
14th ..	S. Wood	129 Last 9	Pair of Socks
15th ..	D. Shortley	129	Pair of Shears

The prizes were presented by Mr. Norman Russell the Hon. Secretary of the Little Aston Golf Club, and President of the Midland Section, who welcomed the greenkeepers to the club and told us that we will always be welcomed to play at Little Aston. Vic Smith our Chairman thanked the Secretary, Captain and members of the club for allowing us the use of their fine course and their club house. Thanks were afforded to the Steward and Stewardess and to Bill Payne and Graham Dale who once again did a splendid job of sorting the score cards out for us. Finally Vic thanked Alan Boraston and his staff for work they put in on the course on our behalf, and Charlie Ward the club Professional who was most helpful to the officers who were organising this event.

The Prize Donors to which we are indebted are as follows:-

Ransomes Sim & Jefferies Ltd.
Lloyds & Co. (Letchworth) Ltd.
Mommersteeg International
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Sutton Seeds
Cannock Fertilisers Ltd.
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May & Vaker.
Horwoots

Toro U.K.

Steve Wildman (Professional Golfer)

Mr. N. H. Russell

Members of Druids Heath Golf Club

Southern Section

Chairman:

D. S. GOULD

Langley Park G.C.

Beckenham, Kent.

Hon. Secretary:

MRS. D. MAJOR

36 Tynedale Road,

Strood Green,

Betchworth, Surrey.

OUR A.G.M. was held at Fulwell G.C. on Wednesday 9th June and although it was a really warm day there was a disappointing attendance—maybe you were all busy watering the greens. Anyway thank you Fulwell for all you did on our behalf and also to Eric for putting such great effort behind it, even with staff problems. Owing to the low attendance an extraordinary General Meeting was called for the 21st July, 1976 at Whitbread Social and Sports Club all paid-up members were informed.

Committee member David Jones has now moved to Purdis Heath and is unable to continue his post of compiling and sending in notes for the Journal, thank you Davey for all you did in the past and good luck at your new Club. Ray Lance was proposed at the A.G.M. to take this on and he kindly agreed. So notes or



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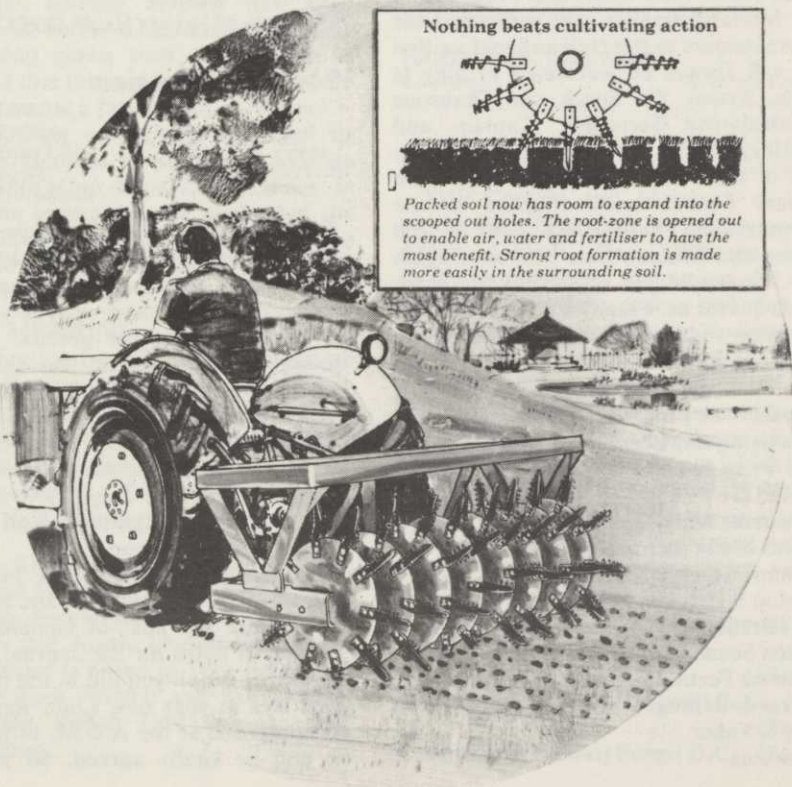
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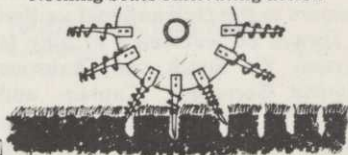
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items for the Journal to go to R.W. Lance, 541 Hook Road, Chessington, Surrey. I hope Ray you are feeling better and your holiday in Spain has done you good.

Since the formation of the East Anglian Section several members in that area have asked for transfers. I have passed their names to the Secretary and I am sure they are welcome to this new Section and no doubt this will be more beneficial to them.

The Secretary would point out that owing to the high cost of postage a list of present day paid-up members is being sent to the Editor and these only will receive the Journal. As and when 'Subs' are paid your name will be added to the mailing list—but this may mean a delay of several months.

Dates for your diary. September 22nd Autumn Tournament at Berkshire G.C. Closing date 30th August, 1976. October 4th. Southern Section v Golf Club Secretaries at West Byfleet.

South Coast Section

Chairman:
E. R. JAMES

Hon. Secretary:
MRS. J. STIMSON
Caretaker's Cottage, Braemore House
Braemore, Fordingbridge,
Hampshire.
Tel: Braemore 277

THE South Coast Section enjoyed a friendly eight-a-side match with the South West Section on Thursday, 3rd June, 1976. The South Coast Section won 7-1. We would like to thank West Wilts Golf Club for giving us the opportunity to play this match at Warminster and a special mention to the Steward and Stewardess who provided us with a most appetizing 'high tea'. We very much hope this match against the South West Section will become an annual fixture.

Members are invited to attend the 2nd British Turfgrass Symposium which will be held at Burford Bridge Hotel, Michleham, Dorking, Surrey on Tuesday, 5th October, 1976. The cost of attending the conference will be £5 which will include admission to all sessions, morning coffee, buffet lunch, tea, and a printed copy of the papers. Maximum attendance is limited to 300. The theme of this year's

conference will be "Golf Course Design, Construction and Maintenance" and will consist of four papers.

Details of our Autumn Meeting to be held at Blackmoor G.C. on Thursday, 7th October, 1976, will be included in next month's issue.

1975 was a good year for Puttenham's Greenkeepers. Tim Watts (14 H'cap) won the Village Club Cup and the Denyer Cup (B.G.G.A. S.C.) while his colleague David Walker (12 H'cap) finished 2nd nett in the Club Championship and won the Tench Cup. Their boss, Tom Watt (3 H'cap) could only manage one cup, the Tregunna Trophy (B.G.G.A. S.C.) as he, being a hard working greenkeeper, didn't have as much time to practice as did his two assistants.

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2nd BRITISH TURFGRASS SYMPOSIUM

Last month's issue contained details of the 2nd British Turfgrass Symposium. If you have not yet returned your Application Form to attend, please do so as soon as possible. If you need additional forms these can be obtained from the Hon. Sec. This is your Symposium and to be successful it needs your support and that of all your suppliers. Please make sure that all your friends in the trade know about it AND ATTEND.



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