

allowing the operator to select the trenching speed best suited to conditions. Soil disposition is either by auger or conveyor, dependent on model, and it comes up in a fine friable condition making for easy backfilling with a Davis hydraulic angle dozer. Once again the fitting of this attachment does not interfere with the trenching ability of the machine.

Polythene Drainage Tubing

Muntz Plastics make 'Landcoil' Polythene Land Drainage Tubing. This tubing was primarily developed for draining agricultural land but in recent years it has been used quite extensively on sports grounds, tennis courts, etc. It therefore has an application on golf courses. The piping is supplied in black only.

'Landcoil' is a 2 in. diameter tube manufactured from polythene in coils 660 ft. long. The polythene from which it is made has been selected to give a tough tube which has a high crush resistance. At the same time it is sufficiently flexible to allow it to be manufactured in easily handled coils.

In order to provide maximum water absorption, there are 16 rows of small slots running along the length of the tube. These slots are scientifically designed to prevent larger soil particles from entering the tube. Where it is necessary to make a joint between two lengths of 'Landcoil', or it is required to discharge through an outfall into a dyke, a slightly larger diameter tube is available to sleeve over the perforated tube.

'Landcoil' may be used with or without permeable fill except that permeable fill must be used in all situations where it would be used with conventional materials.

Pitch Fibre for Drainage

SURPRISINGLY, pitch fibre pipe is sometimes considered to be a new material, yet it has a development history of at least 150 years. It is known with some certainty that a type of pitch fibre pipe was used to carry water in Germany about 1860. A recorded installation was its use for mains water in Hamburg in 1850 and, when these were uncovered in 1914, they were found to be sound. Such durability is only to be expected of a material, the greatest proportion of which is pitch, a natural preservative. The early method of manufacture was to roll up sheets of pitch impregnated paper onto a mandrel until the desired wall thickness had been obtained. This form of manufacture is crude compared with present day techniques which produce a homogeneous wall of cellulose and asbestos pitch fibre completely impregnated with hard coal tar pitch.

Pitch fibre pipe is now well established for drainage purposes and in 1944 the United States Department of Commerce accepted a standard for the pipe. Although quantities of pitch fibre conduit have been imported into this country since 1903, no drain pipe was manufactured here until 1952. Perforated pipe for underground drainage work is manufactured to the British Standards Specification for drainage pipe and then perforated.

Characteristics of the Material

The pipe is 70% pitch by weight and consequently has excellent chemical resistance. Laboratory work and field experience has shown that it will satisfactorily cope with aqueous solutions in the p.h. range of 0.3 to 12.5. Aggressive soil conditions, even those with an artificially high sulphate content, created by the use of clinker, ash or slag fills, are not detrimental to the pipe. The smooth bore and self centring joints give it good hydraulic flow properties and the system of dry jointing means ease and speed of installation. The pitch also inhibits the growth of fungi and plant life generally on its

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surface. Its light weight, shatterproof qualities are great advantages on site. A 10 ft. length of 4 inch pipe weighs 25 lbs. and an 8 ft. length of 6 inch pipe weighs only 44 lbs.

Purpose of Drainage

Effective sub surface drainage is simply the control of unwanted water. Rain not disposed of by surface run-off, absorption by vegetative cover, evaporation or transpiration, is unwanted water. Rain enters the ground and seeks a given water table. Topography, soil types and strata profiles are the basic factors which determine the hydraulic shape of the water table. Water tables are rarely consistent, seasonal fluctuations can affect the shape and height considerably.

Effective sub surface drainage ensures that the water table is stable, has increased soil bearing strength, minimal frost heave, optimum soil aeration and low soil erosion.

Soil water can be shown to consist of three main types.

Hydroscopic Water (undrainable). A thin film of water adhering to soil particles which does not affect soil water or vegetative growth.

Capillary Water (undrainable). A film of water around each soil particle providing moisture for vegetable growth which does not affect soil bearing strength.

Gravitational Water (drainable). This follows the path of least hydraulic resistance, entering fissures, capillary interstices, seepage zones, underground rivers, etc., until it establishes a ground water table at impervious strata. This type of water fills soil voids below the water table, displaces oxygen, reduces soil bearing strength and discourages the activity of micro organisms. The main purpose of surface drainage is, therefore, to remove and control gravitational water.

Why use Pitch Fibre Pipe?

Pitch fibre perforated pipe has been used very successfully for the drainage of golf course greens, tees and fairways. Clay tiles have been extensively used in the past for this type of drainage, but green keepers are now recognising the advantages of pitch fibre pipe. Pitch fibre pipe, although initially more expensive, over a period of say 50 years shows considerable cost savings because clay tiles lose their effectiveness and quickly silt up. Tiles used under adverse conditions are practically useless after 5 years.

Key Terrain have been manufacturing perforated pitch fibre pipe and conventional drainage pipe for nearly 20 years at their Larkfield factory, having built up considerable expertise in their use. The Technical Service Department of Key Terrain Limited, Larkfield, Maidstone, Kent, are pleased to answer specific questions in the use of pitch fibre pipe.

SITUATION VACANT

ROYAL LYTHAM & ST. ANNES GOLF CLUB

Assistant Head Greenkeeper

required for Championship course, excellent opportunity for suitable applicant.

apply with full details to:-

The Secretary

Royal Lytham & St. Annes Golf Club

Links Gate, Lytham St. Annes, Lancs.

Trade News

Mr. R. N. Bird, Chairman of R. S. Bird Limited, has been honoured by the British Golf Greenkeepers' Association, by being appointed President of the Welsh Section.

Mr. Bird, a keen golfer himself, has been actively interested in the Association for many years.

* * *

W. J. Holloway, popularly known as Bill Holloway, retired on the 30th June from the employ of T. Parker & Sons (Turf Management) Ltd. Bill Holloway was Area Representative for South East London and Kent for the Company but, by virtue of the fact he is a keen horticulturist, Bill is known to many customers outside this area, including many of the London Greenkeepers. We feel that there will be many who will join with us in wishing Mr. Holloway a long and happy retirement.

* * *

Leasing Co. Formed by Ransomes

A leasing company has been formed by Ransomes Sims & Jefferies Ltd., the Ipswich based engineering group, to complement the organisation's present marketing arrangements. Ransomes Leasing Company Ltd. is a wholly owned subsidiary and will operate from the company's Ipswich headquarters.

Initially leasing will be limited to Ransomes grass machinery products, but at a later date may be extended to their range of fork lift trucks, and certain items of high value agricultural machinery. This leasing scheme will benefit organisations operating on fixed annual revenues, where high capital expenditure on sophisticated machinery cannot conveniently be achieved.

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age and present employers to the

**Secretary
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Applications are invited from experienced persons for the above post
at the Council's new 18 hole Golf Course at Crookhill Park near
Doncaster, due to open during 1973.

Housing accommodation will be made available.

Further details may be obtained from the Engineer and Surveyor,
Nether Hall, Doncaster to whom applications giving details of
qualifications and experience, should be returned by

Monday, 4 December, 1972

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News



from the Sections

Special occasions

Nov 27	Northern Section Buffet Dance
Dec 6	Southern Section Lecture
11	North West Section Lecture
1973	
Jan 1	Southern Section Lecture
Feb 7	Southern Section Lecture
12	North West Section Lecture
Mar 7	Southern Section Lecture

NORTH-WEST

Chairman:
R. VICKERS,
Leigh Golf Club

By H. M. Walsh
Hon. Secretary:
Horrobin Cottage,
Old Links Golf Club,
Montserrat, Bolton,
Lancs.

Lectures

A very interesting, informative, constructive and well put over talk with colour slides was given to a very good turn-out of members by Mr. J. Bradbury of the Mommersteg Seed Co., and his subject was 'Breeding better strains of grass'. Thank you, Jim, we all appreciated it very much. A good 32 members made the trip to Swinton Park Golf Club for this, the first of our winter series of lectures.

The next talk will be on 11th December, same place, same venue, and the speaker will be Mr. Heath of SISIS. Please let us have as good a turn-out for this one.

New Members

Will all new members please note that it takes a little time lapse before they receive the Association monthly journal.

We welcome to the section the following new members and hope their association with us will be a happy one: J. E. Nicholson, Longridge Golf Club, J. S. Ashton, Grange Park G.C., R. L. Thomas, Saddleworth G.C., A. I. Jones, Padeswood and Buckley G.C.

EAST MIDLAND

Chairman:
G. DARBY

By S. Fretter
Hon. Secretary:
4 Queens Drive,
Leicester Forest East,
Leicester

Annual Autumn Golf Tournament

Our Annual Autumn Golf Tournament was held at Wollaton Park Golf Club on Tuesday 3rd October 1972. There was a very good entry of greenkeepers, visitors and Vice Presidents. The weather was perfect and the golf course was in excellent condition. Our thanks to the Captain, committee, inside and outside staff, Secretary Mr. J. Small, Professional Mr. M. Young for making this a perfect day.

The prize winners were as follows:

Greenkeepers

1st R. Buchanan, Wollaton Park
1 down

Greenkeepers Scratch - 14

1st R. Willars, Leicestershire 2 down
2nd F. Frost, Derby 2 down last 9
3rd A. Shaw, Radcliffe on Trent
3 down last 9
4th W. Woods, Hollinwell 3 down last 9
5th B. Mott, Kettering 5 down
6th G. Darby, Birstall 8 down

Greenkeepers 15 - 24

1st G. Arnold, Erewash 5 down last 9
2nd K. Elliott, Wollaton 5 down last 9
3rd G. Armson, Hollinwell 5 down last 9
4th J. Roberts, Radcliffe on Trent
6 down last 9
5th R. Spurr, Erewash 6 down
6th I. Frost, Wollaton 7 down

Vice Presidents

B. Bean All square

Visitors

P. Jackson 2 down

Putting

Mr. Davis 35

Our thanks to the following for the prizes:-
H. Pattison & Co. Ltd., May & Baker Ltd.,
Mr. A. Webb, Mr. E. Freeman, Tilling Construction Services Ltd., Mitchell & Butlers Ltd., Sutton & Sons, Fisons Ltd., Mr. Freeman. Our thanks to Mr. D. Whitehead for

the buying of the prizes. Also thanks to Mrs. Mott, Mrs. Coles and Mrs. Darby for their help in the starting and the putting competition.

New Members

We would like to welcome to this section the following Vice Presidents. Mr. S. Bird, 1001 Melton Road, Leicester, W. Byard, Professional, Birstall Golf Club, Birstall, Leics.

NORTH EAST

Chairman:
MR. J. SIMPSON

By G. Jeffries
Hon. Secretary:
55 Brackenfield Road,
Framwell Gate Moor,
Durham

Autumn Tournament

Our Autumn Golf Tournament was held on Thursday 7th September, at the Ravensworth Golf Club, Gateshead, by kind permission of their Captain and Committee.

Results

Best Scratch score over 27-holes: K. Barrs (Ravensworth) 114 – Joseph Miller Salver and table lighter.

The Ransomes Cup and Ransomes Watch was won by J. Carss (Dunstanburgh Castle) for the best nett score of 107.

- 2nd C. Maston (Billingham Sythonia Rec)
107 – Metamec Clock
- 3rd P. J. Bryne (Unattached)
109 – Holdall Bag
- 4th C. Baxter (Whitburn)
111½ – Blanket
- 5th S. Pope (Tyneside)
111½ – Bed Spread
- 6th T. Nutman (Tynemouth)
111½ – Clock and the Jack Wroath
Trophy for the over 50 Prize
- 7th J. Smith (Morpeth)
115 – Lighter
- 8th J. Richardson (Tyneside)
116 – Table Cloth
- 9th G. D. Thompson (Goswick)
118 – Blanket
- 10th S. Farrington (Warkworth)
122 – Towels
- 11th H. Sommerville (Alnmouth)
125 – Scales
- 12th A. Lowes (Chester-le-Street)
126 – Spoons

Our Chairman, J. Simpson thanked the Captain and Committee for the courtesy of the course and clubhouse. He then introduced the Secretary, Mr. Anderson of Ravensworth Golf Club, who had kindly consented to present the prizes and say a few words on our behalf. Mr.

Anderson said how pleased he was to see members of the North East Section and invited us back to the course anytime.

Our Chairman thanked the Steward and Stewardess and Staff for two enjoyable meals and the course Staff for the condition of the course. Our thanks are also due to the following members of the trade and golf clubs who kindly contributed to our prize list.

Ransomes Sims and Jefferies, Stewart & Co., of Edinburgh, Atco, Parkside, Engineers, May & Baker, Rigby Taylor, Ponteland G.C. South Shields G.C. The Northumberland G.C., City Newcastle G.C., Chester -le-Street G.C., Gosforth G.C., Dinsdale Spa G.C., Alnmouth G.C., Hexham G.C., Heworth G.C. Alnmouth Village G.C., Tynemouth G.C., Newbiggin G.C., Whitley Bay G.C., Brancepeth G.C., Arcot Hall G.C., Goswick G.C., Bishop Auckland G.C., J. McKenzie Engineers, and T. Oliver Vice-President, J. Rutherford Vice-President.

May I thank Jack Simpson and Norman Fraser for the splendid work they did on the score cards and money; and thank you, Tom Oliver, for the good work in selling raffle tickets – and he played golf in the morning, and this at 77 years young, keep up the good work Tom.

A letter of apology was read from our President Mr. C. N. Storey saying that he was sorry that he could not attend.

New Members

We welcome to the section the following new members and hope their association will be a happy one.

K. Barrs, Ravensworth Golf Club Gateshead, M. Lynn, Tyneside Golf Club, and J. Grainger of Durham City Golf Club.

SOUTHERN

Chairman:
C. A. MOORE
(Stanmore)

By F. W. Ford
Hon. Secretary:
68 Salcombe Gardens,
Mill Hill, N.W.7.
Tel: 01-959 2847

October Lecture

A good gathering of 40 plus members came to 'The George', on Wednesday 4th October, to learn all about the Ransomes-Hahn-Tournament Triplex Greens Management System.

Philip Marshall, aided by projection slides on the Triplex GMS and spiking equipment, supplied all the facts and answers. Question time revealed that the Triplex, costing £3,000 complete with vertical mowers etc., have made an impressive impact in the U.K.

NORTHERN

By Walter Heeles

Hon. Secretary
7 Tentergate Close,
Knaresborough,
Yorkshire, HG5 9BJ

President:
W. MOUNTAIN

Philip Marshall is still suffering from the unfortunate motor accident he had earlier this year and we were all pleased to see him up and about again.

My apologies to members who stood during the meeting owing to insufficient seating accommodation. I hope to remedy this in time for the next meeting.

On holiday here from France, Jack Stobbs found time to spend an evening with us at 'The George'. We were all pleased to see you looking so fit and well, Jack.

New Members

A warm welcome to the following new members: R. W. Scott (Waterlooville), R. F. Baker, S. R. F. Baker (Tiverton), E. W. Greenaway (Hainault), and R. S. Holman (Thorpe Hall).

Secretaries Match

The Southern Section team who played in the match at Porters Park on Wednesday 11th October against the Secretaries just failed to make it three in a row. We looked all set for a win when we went into lunch after the four-some $3\frac{1}{2}$ - $2\frac{1}{2}$ up. I cannot help thinking judging by our table, that we were wined rather well!! However, out of the thirteen singles we could only manage to win five. On the other hand Fergus Pearce, their Secretary, did threaten last year to field a team good enough to win this year. Well done, Fergus!! The series now stands at three all. The results of the games are as follows:

Foursomes

Secretaries

F. J. Bird (Letchworth)	
J. F. Nicol (Home Park)	0
S. T. A. MacDonald (Beaconsfield)	
J. R. Marshall (Unattached)	0
A. J. Aires (Stoke Poges)	
R. L. Griffiths (Sandy Lodge)	$\frac{1}{2}$
H. J. E. Culley (Hadley Wood)	
J. K. D. Dow (Aldesburgh)	0
F. Lister (Shirley Park)	
J. A. Dwyer (Ealing)	1
F. A. Pearce (A.G.C.S.)	
J. A. Randall (Porters Park)	1
	<hr/>
	$2\frac{1}{2}$

Singles

F. J. Bird	1	J. Kirkpatrick	0
J. F. Nicol	0	R. Tempest	1
J. R. Marshall	0	B. Payne	1
S. T. A. MacDonald	1	W. Machin	0
A. J. Acres	1	G. Payne	0
R. L. Griffiths	1	R. Lance	0
H. J. Culley	0	R. Plain	1
J. K. Dow	1	K. Eastwood	0
F. Lister	1	D. Gould	0
J. A. O'Dwyer	1	E. Hall	0
F. A. Pearce	0	P. Fitzjohn	1
J. A. Randall	1	C. A. Moore	0
D. Grier	0	F. W. Ford	1
	<hr/>		<hr/>
	8		5

Match Result - $10\frac{1}{2}$ - $8\frac{1}{2}$

Greenkeeper Invitation Tournament

Our thanks are due to the Committee and members of the West Bowling Golf Club, Bradford, for giving us the courtesy of their Golf Course and Club-House for our second invitation Tournament; to Donald our many thanks are due for a golf course in first class condition. We are also indebted to the steward and stewardess for the very able way they looked after us, particularly as they had only been at West Bowling for a matter of days.

To all Golf Club Officials and guests, thank you all for joining us. In particular Mr. Bernard Cawthray, President of the Bradford Union of Golf Clubs who spoke on behalf of the guests.

Prize winners were as follows:

C. Geddes and Mr. Schneider
S. Bailes and Mr. Stubbley
B. Cawthray and R. Goodwillie
D. Todd and Mr. Jackson

Autumn Tournament

Some 46 Members and Guests met at the Stand Golf Club, Whitefield, Manchester, to take part in the Autumn Tournament of the Section.

On behalf of all the Members, I take this opportunity to thank the Captain, Committee

Southern Section

J. Kirkpatrick (Dulwich)	
W. Machin (Addington Ct.)	1
R. Tempest (Hartbourne)	
R. Lance (Surbiton)	1
K. Eastwood (Dyrham Park)	
R. Plain (Beaconsfield)	$\frac{1}{2}$
G. Payne (Maidenhead)	
B. Payne (Burnham)	1
E. Hall (Ealing)	
D. Gould (Langley Park)	0
C. A. Moore (Stanmore)	
F. W. Ford (South Herts.)	0
	<hr/>
	$3\frac{1}{2}$

December Lecture

This lecture will be given by Mr. Woolhouse, Biologist at the Bingley Research Station on the subject 'Turf Diseases'. It will take place at 6.30 p.m. on Wednesday 6th December, at 'The George', which is about two minutes from Charing Cross Main and Underground Stations.

and Members of the Stand Golf Club for the courtesy of the Course and Club House; to thank Mr. and Mrs. Holland for the first class catering and service, also not forgetting our friend Eric for having the course in first class condition for this event.

Our Principal Guest for the day was our newly appointed Chairman of the British Golf Greenkeepers Association, Mr. Harry Walsh (North West Section). Thank you for coming, Harry, it was a great pleasure having you. On behalf of all in the Northern Section may I wish you a very happy and successful year as Chairman.

Two more gentlemen kindly joined us for a meal in the evening, the Secretary and Chairman of the Green Committee: many thanks for the kind things that you had to say about us gentlemen.

Many thanks to every one who took part in helping to make this a very successful day.

MIDLAND

Chairman:
G. HART
(Gay Hill)

By R. Goodwin
Hon. Secretary:
4 Burton Old Road,
Streethay, Lichfield,
Staffs.

Autumn Tournament

The Autumn Tournament was held at the Stratford-upon-Avon Golf Club on Tuesday 19th September.

Scores and Prize Winners over 27 holes:-

Best Gross	W. Marnock Coffee Set	36 + 74 = 110
Best Nett	B. Lowe Clayton Cup and Tea Service	33 + 65 = 98
2nd Nett	A. Cutler Stainless Steel Cutlery	35 + 67 = 102
3rd Nett	T. Cutler Set of Carvers	35 + 69 = 104
4th Nett	G. Woodward 6 Golf Balls	37 + 68 = 105
5th Nett	C. Frost Cigarette Lighter	31 + 74 = 105
6th Nett	A. Jamieson 4 Golf Balls	31½ + 75 = 106½
7th Nett	D. Brazier Cocktail Set	30½ + 76 = 106½
8th Nett	R. Pullen Bottle of Wine	38 + 69 = 107
9th Nett	E. Benbow Bottle of Wine	38½ + 69 = 107½
10th Nett	R. Goodwin 4 Golf Balls	39 + 70 = 109
11th Nett	V. Smith Holdall	35½ + 74 = 109½

The Cannock Prize, for the Best Aggregate Score over the year was won by A. Jamieson with a 72 Hole Score of 272.

The Prizes were presented by the Vice Captain of the Stratford-upon-Avon Golf

Club, Mr. Rogers, who welcomed Greenkeepers to Stratford and hoped everyone had enjoyed the day.

Our Chairman, George Hart, thanked Mr. Rogers and the Members for allowing Greenkeepers the courtesy of the Course and Club-House for the day. He also paid tribute to Mr. Ashby, Head Greenkeeper, and his Green-Staff for the splendid condition of the Course.

He thanked the Steward and Stewardess for the meals and service, and Peter Wyatt and Frank Cashmore who did all the paper work and Score Cards.

We are indebted to the following Prize donors:-

Thomas Clayton & Sons Ltd., Rigby Taylor Ltd., H. Pattison Ltd., Atco Ltd., Parker & Ballinger Ltd., May & Baker Ltd., Cannock Agricultural Co., Ltd., Vitax Ltd., Harvey's Ltd., Mr. Carl Bretherton.

Handicap Revision

G. Bunting	23-22	R. Pullen	16-15
B. Lowe	16-12	A. Hastilow	18-19
A. Cutler	16-13	H. Drewitt	14-16
T. Cutler	14-13		

WELSH

By J. Rees

Hon. Secretary:
Neath Golf Club,
Cadoxten, Neath, Glamorgan

Autumn Tournament

Our Autumn Tournament was held at Neath G.C. on Tuesday 12th September, 1972. This was a 27 hole competition for the Presidents Shield, played by kind permission of the Captain and Committee.

Division 1

1st	A. Price - Net 106½ - Presidents Shield and Holdall
2nd	D. Jones - Net 112 - Lighter
3rd	D. H. Jones - Net 119 - 6 Golf Balls

Division 2

1st	D. Gould - Net 121 - Grip
2nd	P. Robinson - Net 132½ - Socks and Tie

Subscriptions

Outstanding subscriptions for 1972 should be sent to the Treasurer, Mr. M. Geddes, 23 Fenton Place, Portcawl, Glam.

Greetings

Best wishes for Christmas and the New Year from the Welsh Section to our President, Vice Presidents and all members of the Association. Warm Greetings, also, to the numerous Golf Clubs and various trades that so generously support us throughout the year.

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