GREENS
RANGER Mk3
GANG
MOWERS
Up to 11½ acres an
hour! - Hugging the
ground, cropping
closely and evenly
Can be ganged into
3,5 or 7-unit mowers.
Greens Ranger
Mowers are the
complete answer for
quick and economic
cutting of large areas.

GREENS 20-FOUR MOTOR MOWERS
Immaculate grooming for big lawns.
4-stroke engine, kick starter, 20 inch
cutting width. Dog clutch puts
6-Blade cylinder out of drive
for cross paths. Drop out
cutting unit.

A SHORT CUT TO PERFECTION

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Telephone: Leeds 20357

Hawker Siddeley Group supplies mechanical, electrical and aerospace capital equipment with world-wide sales and service.
GRASS I PASS

There’s no green as mean
As the fast green that wasn’t
Unless it’s the green
With the break that doesn’t

—CLIFF MACKAY

AUGUST CONTENTS

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ATCO FOR THE GOLF COURSE ... and for Life

ATCO GANG MOWERS FOR THE FAIRWAYS

There are three models available. The popular general-purpose model No. 1, the heavy-duty No. 2; and now The NEW MODEL No. 3 with these star features:

★ Special two-section gearbox makes cutter changing a moment's job—no stripping!
★ 10" Heavy-duty cutter unit of advanced design for outstanding cutting and clearing efficiency
★ Even less time needed for maintenance—For example: oil bath changes, once a year only!—making more time for mowing!
★ Full width rear roller for fine turf mowing—Easily attached and detached to suit varying conditions.

Atco Gang Mowers are only some of the many machines in the Atco complete range, from the 12" to the 34" roller type, as well as rotary grass cutters and side-wheel mowers.

PRICES FOR TRIPLES RANGE FROM £289.

The 20" SPECIAL FOR 'SUPERFINE' MOWING OF GREENS

This 'self-contained' motor mower has become recognised as the best machine of all for the maintenance of the perfect finish required for the Greens. The specification is complete and will maintain peak performance for life.

£95

and perhaps most important of all... IMPECCABLE SERVICE

EVERYWHERE there is an ATCO Engineer attached to an ATCO owned Branch ready to advise on any problem in connection with grass cutting.

DEMONSTRATIONS OF ANY ATCO CAN BE ARRANGED TO SUIT YOU OR YOUR GREENS COMMITTEE

CHARLES H. PUGH LIMITED • P.O. BOX 256 ATCO WORKS BIRMINGHAM 9
W. J. GARDNER, M.B.E.

Billy Gardner died on the 7th July 1966. He had been ill since January.

He was the genius at the heart of artisan golf for more than 30 years and his connections with the movement were older still. That example will inspire his Association for many years to come.

He was a true friend of greenkeepers, understood their problems, encouraged them in their golf and their work. Those who met him year by year at the Artisan Tournament will not forget his special welcome.

The next issue of the Artisan Golfer, the magazine which he edited until last year, will be devoted to his memory. The tributes of his countless friends will be a measure of his achievements.

Punctilious in discharging his official duties, he used them equally to fashion bonds drawing 10,000 golfers together into a unity which reflects his virtues, above all his desire to serve his fellow men.
DISEASE has been associated with grass for a great space of measurable time but has become more noticeable during the last 50 years because of the intensive cultivation and maintenance given to fine and coarse turf. New grasses and different variations of grasses may (as they are introduced into sports turf and so become exposed to the intensive measure of turf culture) bring new or different forms of disease. There can be no complacency about disease or its control.

Disease which, rightly so, is thought of so often as being caused by fungi, can be brought about by non-fungal agencies such as mechanical damage due to the smokes and dusts of industry, by severe frost, or scorch by excessive and injudicious use of fertilisers, fungicides and weedkillers, or by plant food deficiencies. All these and many more must be considered when a patch of dead, bleached or discoloured grass has to be examined.

Undesirables

The unsightly discolorations and scars on turf frequently indicate the presence of fungal disease, as also do the fine "cob-web like" strands of fungal hyphae which, in the dew of early morning, can be seen joining grassblade to grassblade. The discolorations and scars left on turf by fungal disease are unsightly and unwanted but it should be remembered also that disease, by weakening and "opening-out" the sward, will permit weed invasion and the entry of undesirable grasses such as annual meadow-grass. A radical change for the worse can be seen in the composition of a sward exposed to repeated attacks of fungal disease.

Diseases that concern us in the British Isles are Fusarium patch disease, Corticium or Red Thread disease, Ophiobolus patch disease, Dollar spot disease, and to a lesser extent Helminthosporium infections and those due to the presence of fairy rings. In other countries these and many more diseases may be present, e.g. Brown Patch (Rhizoctonia sp.) and Copper spot (Gloeocercosphora sp.).

Under British conditions, Dollar spot disease attacks turf of sea-marsh origin. The small bleached "dollar-sized" areas on the fescues join to form larger masses of bleached turf. The appearance of bleached areas on fescues could be mistaken for Corticium disease. However in the later stages of Corticium the hyphae become fused to form coral-red needles. Dollar spot disease has its own very characteristic horizontal yellow banding on the fescues.

Rings

Ophiobolus patch disease may flare upon areas of bent-grasses growing under conditions of excess surface moisture and alkaline pH. The active fungus shows itself in June as a red-orange ring, vigorously growing outwards and destroying the bent-grasses in its path. Inside the ring will be found the resistant plants such as annual meadowgrass, ryegrasses and pearlwort cushions.

Perhaps the commonest and most disfiguring disease of sports turf is Fusarium patch disease — the so-called "Fuzz." The faint brown patches of the disease quickly become orange-brown and wet in appearance. The infected grass dies leaving bare unsightly scars. In warm "muggy" weather this disease becomes active from its banana-shaped "resting spores".

Breeding

The control of disease so as to achieve a healthy sward need not depend always on fungicides, but will usually do so. It may be possible in future years for the plant breeders and geneticists to produce grasses resistant in varying degrees to diseases. However, cultural activities can do much to reduce the incidence of disease, i.e. switching will decrease Fusarium patch disease by removing moisture which is (Continued on page 11)
with that heavy tractor

The BMC Mini Tractor treads lightly on turf, providing traction without ruts. The BMC Mini is low-built and stable on undulating land, it is highly manoeuvrable in confined areas, fully versatile and economical to run. Powered by a BMC diesel engine and available with hydraulics and power take-off, the BMC Mini can be applied to gang mowing, hedge cutting, loading, levelling, grading and a whole variety of P.T.O. tasks. Ask your BMC/Nuffield dealer to arrange a working demonstration with the BMC Mini Tractor. For better maintenance of parks, sports grounds and golf courses—

use the

BMC MINI LIGHTWEIGHT

Backed by BMC Service—Express, Expert, Everywhere.

THE BRITISH MOTOR CORPORATION LTD.
(Agricultural Sales Division) Longbridge, Birmingham.
Overseas Business: BMC Export Sales Ltd., Birmingham and 41-46 Piccadilly, London W 1
NOTICE IS HEREBY GIVEN OF
THE BRITISH GOLF GREENKEEPERS' ASSOCIATION
ANNUAL GENERAL MEETING
LITTLE ASTON GOLF CLUB
Monday, 8th August at 2.30 p.m.

AGENDA
1. Minutes of the last Annual General Meeting.
4. Executive Committee Report.
5. Election of Officers.
6. Any other business.

GRUNDFOSS HIGH EFFICIENCY PUMPS USED IN AUTOMATIC IRRIGATION SYSTEMS

The Grundfoss range of multistage centrifugal pumps have been selected for use in conjunction with the automatic irrigation equipment marketed and installed by British Overhead Irrigation Limited. The pumps have been chosen by the company because of their extremely high mechanical efficiency coupled with maximum reliability and competitive price.

British Overhead Irrigation Limited supply and install their automatic irrigation systems in golf courses and sports grounds throughout the world. Automatic installations of this type, giving "push-button" control over the irrigation of golf course greens and tees, rely completely on the reliability of the pump installation for trouble-free operation and long working life.

Grundfoss pumps, produced by the International Grundfoss Organisation, with factories in Denmark and Germany as well as the U.K. plant at Betchley in Bucks., incorporate several revolutionary features in their design and construction. Stainless steel impellers and diamond polished mechanical shaft seals are but two new developments in pump construction which have resulted from extensive research programmes, specifically aimed at high efficiency and reliability, continuously carried out by the company.

Mr T R. Hilton, Managing Director of British Overhead Irrigation Limited, said at a recent demonstration of automatic equipment, "Grundfoss pumps have been selected by this company because of their absolute reliability and high efficiency combined with a realistic price, a combination which the company has not previously been able to find."

The most recent installation carried out by British Overhead Irrigation Limited is at Sunningdale Golf Course near Ascot. The system, giving completely automatic irrigation of all 36 greens and tees, was officially handed over to the Club Officials on Saturday, 30th April 1966.

The installation involved the laying by mole plough of eight miles of underground PVC water mains, together with the siting of 250 underground "pop-up" sprinkler heads situated around greens and tees. The two Grundfoss CP8/100 pumps, sited together with the electrical automatic control system, maintain sufficient pressure to serve two complete sprinkler stations operating at the same time. There are a total of 36 "sprinkler stations" on the course, comprising one green and one tee per station.

This type of automatic installation is now being used for sports grounds and golf courses throughout the world. The system saves labour, maintains turf in good condition in the driest weather and provides economies in the use of water as well as avoiding inconvenience to players.
SISIS DEMONSTRATION TOUR IN WEST GERMANY

Sisis demonstrator Mr Roger Barnes has recently returned from a demonstration tour of West Germany, his second visit there this year.

Leaving with Austin Gipsy and trailer on 3rd June, Mr Barnes, who speaks German, spent the following month giving demonstrations of Sisis sports ground management equipment before German groundsmen and municipal authorities. He covered 4,000 miles and gave over twenty demonstrations during the tour which was arranged by the company's distributors, Landre & Glinderman GMBH., of Munster.

Keen interest was shown in Sisis equipment. Most of the large and medium sized towns in West Germany have a modern sports stadium but still rely on manual labour for maintenance. Permission was given for Mr Barnes to demonstrate before a group at a Munich stadium on the understanding that the stadium themselves were not interested in buying. After the demonstration they purchased a complete range of tractor-operated equipment.

FOR HIRE

SISIS AUTOTURFMAN Aerator for hire, £25 per week — Do it yourself. J. B. Burnell, 2 Clarence Road, Eaglescliffe, Stockton on Tees.

40 times faster than hand forking

The SIS S AUTO-TURFMAN motorised aerator handles superbly and is used all day by the operator.

A 16-year-old youth illustrated can operate the machine after only two weeks' training.

Designed to give maximum penetration of 4" on fine turf with vertical entry and withdrawal without lift or tear leaving clean hole.

There is no load on the wheels when aerating only when turning or transporting. Safe to use on soft ground.

Solid and Slitting tines are interchangeable with hollow.

The operator has previously run the SISIS AUTO-ROTORAKE over the green giving it that beautiful carpet pile finish through disposing of the horizontal growth and unwanted fibre.

As "seeing is believing" why not ask for a demonstration?

"SISIS" EQUIPMENT (Macclesfield) LTD.
MACCLESFIELD CHESHIRE Tel Macclesfield 6363
Dear Sir,

I am the Head Greenkeeper of The Golf Club. I have just been looking over your old May edition and noticed the wages survey. The Head Greenkeeper should get £20 to £24 per week PLUS accommodation. First Assistant — £15 to £17 10s. per week, Assistant — £13 to £14 per week.

On the course I work on these are the wages —

Head Greenkeeper £15 per week
   age 26 years
First Assistant £12 per week
   age 22 years
Assistant £5 per week
   age 17 years
Assistant £5 per week
   age 16 years

In my opinion this is a disgrace. Two weeks ago I had a £1,000 competition here. We had to work every night almost for 12 days, sometimes starting at 6 a.m. till 8.30 p.m. We got the course in first class condition. All the club members said this was the best the course has been for about 20 years so why can’t the club pay the wages your Executive Committee mentions. The three assistants never worked on a course before two months ago, so I had to teach them how to cut greens, fairways, approaches, tees, spread dressings, water and so on.

The lads who work for me get on well with me, but the wages are shocking, so the lads are finding other trades with more money. Who can blame them when their hard work is not rewarded? Thanks are not enough.

I am getting married and at present there is no accommodation for me. I have told the Secretary about this situation. He says there might be a place built in a year’s time, but what am I to do in the meantime? I have got a flat near the course, but the rent is high. Paying the rent, getting food in, painting and decorating out of £15 per week is going to be a struggle at first.

I hope you don’t mind me airing my views about this but it’s the way I feel, and the wages in my district are very poor. They have good courses up here and the clubs should Pay.

Yours faithfully,

(Name and Address supplied)

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**SPECIAL OCCASIONS**

| AUGUST  | 8th | Annual Tournament Little Aston Golf Club. |
| _______ | ____ | ____________________________ |
| 9th     | _____ | Northern Autumn Tournament Thornton Park Golf Club. |
| 10th    | ______ | ____________________________ |

| SEPTEMBER | 7th | Southern Autumn Tournament Erewash Valley Golf Club. |
| _____ | ____ | ____________________________ |
| 21st | _____ | East Midland Autumn Tournament Erewash Valley Golf Club. |
| 22nd | _____ | North-West Annual Tournament Hazel Grove Golf Club. |

| _______ | ____ | ____________________________ |
| 12th | _____ | Midland Autumn Tournament Blackwell Golf Club. |
Dear Mr Editor,

On Thursday, 14th July, the annual invitation match between the Society of Essex Golf Captains and the Essex Greenkeepers took place at the Romford Golf Club. Although this match is mainly intended for Essex Greenkeepers, a few guests are invited, and this year we had the pleasure of the company of Tom Mason. Although retired after 55\(\frac{1}{2}\) years at Hendon Golf Club, he is still very active and capable of playing a good game of golf.

We assembled at 12 o’clock and after a few pints and a very excellent lunch, we proceeded to do battle. A Stableford four-ball was played, the Captains winning by 16 points.

After the match more beer was drunk, before another very good meal. Mr Harry Shearcroft, the Captains’ captain, said how delighted his society were to entertain us for the match. He also thanked the Greenkeepers for the very hard work they put in to give pleasure to all persons playing golf. He also thanked the Romford Golf Club for allowing the match to take place, and the staff both outside and inside for their excellent service.

I had the pleasure of thanking the Captains for the very excellent day they had provided, and one which we looked forward to annually. I also stated that as most of the Greenkeepers present were getting on in years, great efforts should be made by clubs to encourage new blood into the profession.

Yours sincerely,

JOCK GLASS.

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<td>F Ford and Mr Bennett</td>
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Total 329  Total 313


News

from the Sections

SHEFFIELD

Chairman:
G. HERRINGTON
(Lindrick)

Hon. Secretary:
63 Langsett Avenue
Sheffield, 6

By J. J. Dearlove

THE FIRST OF TWO EVENTS TO report is the S.U.G.C. competition when 30 greenkeepers were the guests of the Sheffield Union of Golf Clubs at Lindrick Golf Club on Monday, 20th June. Each greenkeeper was partnered by a member of the Sheffield Union in a better ball competition. It was a most interesting meeting in more ways than one and rather a wet one to start off with. Brollies and waterproofs were much in evidence on the first tee but the skies cleared for the latter half of the round. The most encouraging thing was the attendance which could probably be a record for the Section. It was rather a pity that there were not enough people to partner the greenkeepers but I am certain that Mr Wilkinson, Secretary of the S.U.G.C. did his utmost to meet the demand.

Deciding the winners proved a bit of a headache for the officials with three returns of 70 having to be decided on the last nine holes with the final result in the following order: S. Inman and Mr Hulley, C. Chappell and Mr Swift, G Herrington and Mr Butcher.

Mr Jack Hulley, President of the Yorkshire Union, presented the prizes and thanked the Club for allowing the use of the course. He also remarked on the attendance as the best he had known for this event.

Mr Wilkinson added his thanks to the Club and Mr Roberts, of Lindrick G.C., replied. Mr G Herrington, representing the greenkeepers, thanked Mr Wilkinson and Mr Lomas for their work in running the competition and Mr Hulley for presenting the prizes.

President's Prize
Twenty-one players teed off to do battle for our President's Prize at the Phoenix G.C., Rotherham, on Tuesday, 27th June. Mr Sharlston, our President, was unable to be with us owing to the date of the fixture being rearranged. I hope he will accept my apologies for choosing a date that clashed with an outstanding commitment. We do, however, thank him very much for sponsoring this competition and providing the much sought after silver salver. We also thank the committee of the Phoenix Golf Club for the courtesy of the course which was in very good shape. Thanks also to Mr Elliott for contributing to the prizes and honouring us with his presence. Thank you, Mr Len Boyd (Professional) for the prize and the use of the trolleys.

Our final thanks to Mr F. Croft for acting as recorder and supporting the event financially.

Making it a double victory for the season, Sam Inman coasted home a clear winner with a good score of 37 points, he carded 20 points for the first nine holes and kept a tight grip on his game to take home the lovely trophy and a voucher for £5. Close on his heels came Cyril Chappell, playing on his own course, with 25 points. Other prize-winner and leading scorers were A. Goldthorpe 32, W Williamson and R. Whitehead 30, H. Herrington, J Dearlove and A. Spencer 29, and J Walker and G. Herrington 28.

New Members
We welcome to the Section Eric Palmer who recently took over at the Abbeydale Club and his assistant P Smith. We hope you enjoyed your first competition with us and that you will join us on many more occasions.

NORTH-WEST

Chairman:
D. PATE
(Royal Birkdale G.C.)

Hon. Secretary:
78 Hadfield Street
Oldham, Lancs.

By H. M. Walsh

In Memoriam
IT IS WITH DEEP REGRET I HAVE to inform members of the passing away of Mr J Marshall who was Head Greenkeeper at Royal Lytham. Jim, who died suddenly about the end of June, was a very well known and respected member of the Association not only to his friends of the North-West, but to fellow members of the other sections, particularly the Southern, who will probably remember him best for his keenness for the game of golf and the success of our National Tournaments. He