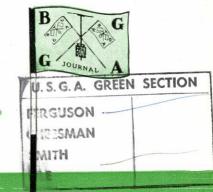
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### GREENKEEPER

HON, EDITOR: F. W. HAWTREE.



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> A London Newspaper, 11th December, 1964.

# JANUARY CONTENTS

Page 3 TEE SHOTS

- 4 CHEMICALS OR COMPOST
- 6 CORRESPONDENCE.
- 7 ST. ANDREWS LINKS SUPERVISOR VISITS RANSOMES
- 8 THE ECOLOGY OF NITROGEN ACTIVITY IN TURF SOILS
- 11 SECTION NOTES
- 13 SPECIAL OCCASIONS
- 16 REPORT ON WAGE SURVEY AND MRS. GREENKEEPER

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I cwt. 45/-; 5 cwt. at 43/9 per cwt.; 10 cwt. at 42/6 per cwt.; Per ton £40 0s. 0d.

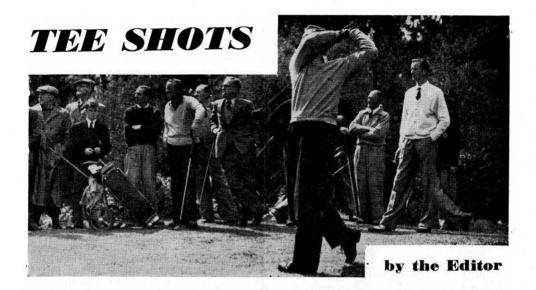


Full details of Grass Seeds, Fertilisers and Maintenance Equipment are now available in our "Spring Price List", post free on request The 1965 Edition of our illustrated booklet "Treatment of Golf Courses and Sports Grounds" Free on request

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A Swedish contribution to mowing has become popular in the Manchester area. A. Wilson, Head Greenkeeper at Bramall Park, showed us his "Flymo" with some pride last month. This is a rotary mower with 2-stroke engine sitting on a fibre glass body, the whole thing weighing only about 26 lbs. Vanes on a disc above the revolving cutting blades cause the whole machine to float on air when the engine is started. Thus, on banks or round bunker edges, the operator can whisk his mower to and fro with one hand and cut awkward slopes and corners with less effort than it takes to wield a scythe. Bramall Park was certainly looking well cared for, though most of it still went through the traditional routine.

Mr. S. Frappell, Head Greenkeeper at the Bristol and Clifton Golf Club, Failand, has shaped up a new 11th green very neatly in the past few weeks. The old one suffered from problems of visibility and a strong backward slope. Teasing problems of this sort seem to last just so long (a long time in this case) but not for ever. The greatest problem of golf course design is trying to provide the problems without making them eccentric.

Harry Roberts, West Lancashire Golf Club Head Greenkeeper, produced a new 10th green at West Lancs. in something under a fortnight in December. Green Committee decisions are not always speedy—Harry decided to translate thought into action between one meeting and the next—and succeeded.

A Happy New Year to all our members.



#### CHEMICALS

or

#### COMPOST

by

John Stobbs

Quite a few pointers have been showing up in greenkeeping articles in various American publications which rather suggest that they are realising anew, over there, that there are ways in which slicker methods of treating turf, for immediate results, may have considerable long-term disadvantages.

This is a point of view which has always held its ground over here, of course: the more so since members of the British greenkeeping profession have a certain traditional suspicion against "too much science"—especially when combined with high-pressure salesmanship (as all new products, good or bad, inevitably are in America). It's still interesting, though, to see an old cry of British Greenkeepers and Turf Advisers taken up with something of the air of a new and interesting rediscovery over there.

#### Ice Coating!

Maybe it was triggered off by the vast damage suffered by many Northern American courses in the winter of '61 and '62, when big snowfalls thawed slightly, then froze solid: to cover many greens with a solid coating of ice (much the same problem which we had ourselves here).

There was a great deal of to-ing and fro-ing and comparing of notes, apparently, amongst "Course Superintendents" in areas most seriously affected. All manner of theories were put forward to account for why some courses had

suffered so much more catastrophically than others. On some courses, whole greens emerged from the ice-sheet, rotting and stinking, or emerged green, only to die off soon afterwards; whereas in others, where conditions had been much the same, the turf suffered little permanent damage.

#### Theory plus Facts

In the end, it seems, the theory which most closely seemed to fit the facts (inc'uding the examination of plugs from different greens) was the one many a Briton might have suggested in the first Where the soil-structure of greens had least successfully been looked after, so that aeration was poor, and there was compaction of the soil (often at more than one level), the effects of the ice-sheet were disastrous. Where the turf had best been kept aerated and healthy in structure, damage seemed to "If compacted turf is overlaid by a thick sheet of ice, life-giving oxygen can't penetrate to the roots . . . . Air drainage is a must" just about summed it all up, as the magazine Golfdom put it.

#### **Autumn Dressing**

Since then, there's been quite a bit of attention paid, too, to the functions of autumn dressing of greens: with the idea that above all it mustn't aim to stimulate growth above ground, but rather to strengthen the turf reserves for winter, and to help it to store up food for itself during the co'd season. No one, they reckon, yet knows exactly how turf stores food reserves. But it does, and it must be helped to do so.

With the focus on long-term health of greens, not entirely surprisingly, there seems to have been something of a reemphasis on composts, as against fertilisers. Golfdom, which usually has its nose very close to the ground indeed, came out with a short but dogmatic article (admittedly by a Vice-President of an Organic Compost Company, a Frank T. Sprogell), with a heading reading like one of our old clichés of tradition in this country: "Organic Material Helps to Rebuild Depleted Soir"!



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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.





and perhaps
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IMPECCABLE SERVICE

**EVERYWHERE** there is an ACTO 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 He's worth quoting at some length, for the gist of his message to the modern

American Greenkeeper:-

"Some of us who, for many years, have been responsible for golf course maintenance have wondered how we once managed to keep greens in such excellent condition despite the somewhat primitive stage of turf management technology compared with today's advanced methods, materials and machinery."

The troubles they used to have then, he remarks, don't seem to have been any worse than the troubles they now get "in this modern, highly scientific turf

management era".

#### Use Compost?

Why? Because, he suggests, "the old fashioned value of soil building in compost" has gone rather out of fashion. "A good living organic compost is much more than just a fertiliser . . . . It is a means of continuing life". And this old well-tried idea, he thinks, more and more American greenkeepers are revert-

ing to.

"Many experienced superintendents realise that life (soil bacteria) is being depleted in the soil. This is caused by the constant use of sterile materials and the necessary application of various chemicals needed to correct weed and turf diseases. Detergents and chlorine in city water used on many courses also deplete soil life. Seldom are materials, containing living soil organisms, added to turf programmes to help remedy the deficiency. Lack of active, living organics in the soil creates a condition difficult to cope with. Unhealthy turf, shorter roots and compaction result. The soil becomes less friable, preventing adequate water and air circulation.

"To correct this condition Superintendents are beginning to revert to the old custom of using substantial amounts of live and active organics. Humus is a necessary and active organic portion of the soil. It creates a loamy textured structure by producing granulation, thereby improving aeration and drainage. It also improves the soil's exchange capacity, which is the soil's ability to retain plant nutrients and moisture. Active organic matter is needed by soil

micro-organisms as a source of food . . Sufficient living organic matter in the root zone assures the full and complete productive value of all types of inorganic or sterile fertilisers."

#### Repetitive

It's all been said before, of course (and is continually being explained to C'ub Committees here in Europe by most of the well-known turf advisers). It is arresting, though, to observe the Americans—well-launched for decades on all the ambitious short-cuts of green-keeping—rediscovering the fundamental importance of the traditional British base for the whole perennial operation!

A Course Superintendent (Paul Voykin, Briarwood, Illinois), writing elsewhere on another subject in the same issue of *Golfdom*, perhaps sums up, incidentally, what it is all about:

"In the 12 years I have been in the turf business, the most successful superintendents I have run across are those who not only have wide technical knowledge and practical sense, but understand how to work with nature and its elements. They never fight nature or try to rush it. They learn to live with it and that, I think, is the secret of their success."

#### CORRESPONDENCE

Hon. Secretary, British Greenkeepers' Association.

Dear Mr. Secretary,

1. The Spangdahlem Air Base is in the process of building a nine-hole golf course. The activity is presently suspended, of course, due to the inclement winter weather. I am sure that you are aware of the fact that there are very few golf courses located in Germany, and our problem is a competent qualified greenkeeper. We are wondering if you have someone available that would be qualified and interested in the position, and since this is a new activity to us perhaps you could offer some ideas as to the salary that would be expected.

2. The technicians that are building the golf course feel that it is most important that the greenkeeper be involved in the initial ground contouring and general layout. If you feel there would be any advantage in our doing so, I or a member of my staff can make arrangements to visit you at your

convenience for further discussion.

Very truly Yours,
HARRY B. DAVIS,
Chief Civilian Personnel Officer.

#### ST. ANDREWS LINKS SUPERVISOR VISITS RANSOMES

When a schoolboy sets his heart on the profession of a greenkeeper one pinnacle of that career would be of Links Supervisor at the Royal and Ancient Golf Club of St. Andrews.

After thirty years of greenkeeping, which had taken him as far south as Devon, and as far north as East Lothian, John K. Campbell was appointed to this top job in 1962, when he was 42.

production at first hand. His equipment ranges from the huge "Quintuple" gang mowers to the hand propelled "Certes" greens mowers with, in between, a large variety of machinery for other specialised cutting work.

Television viewers are probably more familiar with the Old Course than with the others, the course which claims to have the largest greens in the world, one



John K. Campbell, Links Supervisor, takes a Ransomes "Auto-Certes" greens mower over the 18th green of the Old Course, in front of the Royal and Ancient Clubhouse, St. Andrews.

Few people realise that John Campbell's responsibilities cover an area of 450 acres, a monumental task which, in the season, needs all the attention of twenty-eight men, and an array of machinery which has to earn its keep from dawn to dusk.

With the responsibility of providing top playing conditions for the members of the four courses under his supervision, as well as the world's top players at tournament times, John Campbell has insisted on standardising on Ransomes mowers for all his cutting work and has recently been down to Ipswich to see

alone covering one acre. As a point of interest, one could be faced with a putt of 225 feet on one of these double greens! With the critical T.V. cameras ready to pick up any fault, John Campbell has to have mowers which provide consistently perfect cutting, and, with such vast areas, there must be no chance of mechanical breakdown.

When next we switch on the set to watch the world's premier golfers and note the perfection of the "two-toned" cutting, spare a thought for John Campbell, the man responsible for providing absolutely perfect playing conditions for near perfect players.

## THE ECOLOGY OF NITROGEN ACTIVITY IN TURF SOILS

by

Dr. R. E. Blaser and R. E. Schmidt

This paper was presented at the American Golf Course Superintendents' International Turf-Grass Conference and Show at Philadelphia, last year. We reprint the first instalment here with grateful acknowledgments to the "Golf Course Reporter" because so much of it will be of interest to readers over here.

Nitrogen is a major constituent of all living things; it is an important part of protoplasm which is essential for biochemical processes in all living plant and animal cells. After entering plant cells, nitrogen combines with organic acids

Having nitrogen available a little before growth conditions are favourable for a given grass, stimulates growth competition to crowd out weeds, and is the best way to keep the sod pure. For example, applying nitrogen liberally to bluegrass lawns during the cool late summer and/ or spring stimulates growth and sod thickness. Dense sods then shade out crabgrass seedlings which germinate in late spring and early summer. Liberal fertilisation with nitrogen during the summer months would favour crabgrass encroachment, as crabgrass grows better under high summer temperatures than On the other hand, for bluegrass. summer growing grasses such as zoysia, bermuda, and centipede, most of the nitrogen should be available in late spring to mid-summer, the favourable growing period of these grasses. nitrogen for summer grasses is applied in the autumn, it will simply encourage growth of weeds and grasses that grow at lower temperatures in autumn when summer grasses stop growing with bentgrass greens. Where Poa annua (annual

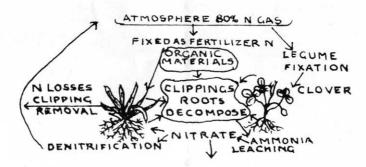


FIGURE I- THE NITROGEN CYCLE

(breakdown products of sugars) to form amino acids, the building blocks of proteins. Some of these amino acids then combine to form proteins and protoplasm. The growth rate of plants is dependent on the production of new protein, which in turn is related to the amount of nitrogen taken into plants by the roots. A cell cannot divide nor increase in size until new proteins are produced.

Nitrogen is the key mineral nutrient in growth and quality control of turf.

bluegrass) is invading, it is best to use most of the nitrogen in early autumn and early spring, the time when bent-grass grows better than *Poa. Poa annua* grows better at lower winter temperatures than bentgrass; thus, it is wise for the available nitrogen to be low in the late fall and late winter in areas where *Poa annua* invades bentgrass.

#### The Nitrogen Cycle

Nitrogen is needed in greater amounts than any other fertiliser element, yet the soil is a poor nitrogen storehouse. Turfgrasses absorb nitrogen from soils as ammonia or nitrate, but these nitrogen salts are usually very low in soils. Most of the soil nitrogen is bound in organic matter in various protein stages of decomposition, in plant residues or microorganisms. The protein nitrogen in organic matter must be oxidised by micro-organisms which release ammonia. Such released ammonia is then absorbed by plant roots or further oxidised and absorbed as nitrate nitrogen.

A simplified chart showing nitrogen "breakdown" as it applies to turf-grasses is shown in Figure 1. It is interesting to note that about 80 per cent of the atmosphere is made up of free nitrogen gas (mostly N<sub>2</sub>), but nitrogen gases cannot be used by grasses, except through nodule bacteria on legume roots which can reduce the free nitrogen to ammonia. The change of nitrogen from one form to another, its utilisation by the plant, and its later return to the soil as plant and animal residues is called the nitrogen cycle. Animal and plant residues in various stages of decomposition are also used as sources of nitrogen fertiliser.

Dead roots and shoots, without clipping removal, make much organic matter available for decomposition; the protein nitrogen in plants is released and reuitilised. However, this scheme does not make nitrogen available when plants need it. Decomposition is slow during temperatures. Micro-organisms grow fastest when grass growth is also rapid; thus soil microbes "tie up" nitrogen causing a shortage of nitrogen for grasses. Nitrogen is also lost from the nitrogen decomposition cycle in two ways: (1) some nitrogen goes back to the atmosphere as nitrogenous gases, and (2) nitrate is leached out of soils.

The return of clippings is usually not a good source of available nitrogen because of laying on the soil surface where the organic nitrogen compounds are not decomposed into mineral nitrogen. When clippings are removed, more nitrogen fertiliser is needed than when they are returned to the soil.

#### Form of Nitrogen Fertiliser

The three major forms of fertiliser nitrogen are: (1) Soluble nitrogen fer-

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#### FOR SPRING RENOVATION

Suttons No. 23 mixture of grasses for tees 3/- per lb. 300/- per cwt.

Suttons, of course, are able to supply a full range of excellent mixtures for *greens*, *approaches*, *fairways*, etc. These consist of the finest strains, perfectly blended and economically priced. Full details and prices on request.

#### FOR SPRING FEEDING

**Suttons 'Greensward' fertilizer**—unequalled for use on all fine turf. Derived from high-grade organic materials (almost 50%). Ensures a *gradually available* supply of plant nutrients. Apply 2 oz. per square yard in Spring. May be used at lighter rate of application as tonic dressing during summer.

1 cwt. 69/6

5 cwt. @ 68/6 per cwt.

10 cwt. @ 66/6 per cwt.

20 cwt. @ 64/6 per cwt.

Suttons 'Fairsward' fertilizer—a most economically priced, chemically balanced fertilizer, specially prepared for use on fairways. Apply 5 cwt, per acre in Spring.

10 cwt. @ 37/9 per cwt.

20 cwt. @ 37/- per cwt.

40 cwt. @ 36/- per cwt. 80 cwt. @ 34/- per cwt.

120 cwt. @ 31/6 per cwt.

ALSO USE SUTTONS MOSS DESTROYER, WORMKILLERS AND FUNGICIDES Grass Advisory Service — available to every golf secretary and greenkeeper. Free advice by 'phone or letter; visits of inspection by experts at moderate charges.

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tiliser salts that are immediately available for root absorption, such as ammonium nitrate, sodium nitrate, urea, sulphate of ammonia, and others; (2) Organic nitrogen (plant and/or animal residues), such as sewage sludge, tankage, protein meals, tobacco stems, etc. which must be decomposed by micro-organisms to become available; and (3) Ureaformaldehyde (U-F) nitrogen fertilisers, consisting of urea combined with organic materials to form plastic-like compounds. A little of the nitrogen in U-F is readily available; but most of the nitrogen is made available by decomposition of microbes. In addition to these three forms, quickly available nitrogen, such as urea, is being compounded within long-chain hydrocarbons in pellets to bring about slow nitrogen release.

We have found all of these forms of nitrogen satisfactory for different grasses used on golf course greens and lawns when properly used. Soluble nitrogens ought to be applied every two weeks during the spring and autumn cool season to supply one pound of nitrogen per month or more during the cool season. These soluble sources are utilised quickly so they must be "rationed" to avoid overstimulated growth. Soluble nitrogen should be withheld or used sparingly during the summer months for cool season grasses. With cool season grasses, urea-formaldehydes have given excellent results when applied twice yearly, in late winter and in mid-to-late During the first year when August. U-F nitrogen is used, growth may be a little slow at times; thus, a very light rate of soluble nitrogen (one-fourth to one-half lb./1,000 sq. ft.) may be applied to "perk up" growth.

Organic nitrogens should be applied at monthly intervals for best growth control with little nitrogen used during the summer months. Even though organic nitrogens must be decomposed to release ammonia, they should be rationed to supply enough for 30 to 60 days growth per application.

Soluble nitrogens should be applied when the grass is dry and watered in immediately to avoid burning. The burning effects of quickly available nitrogen may be minimised by using hard pellets; pulverised soluble fertilisers

cause more burning than pellets. All nitrogen fertilisers must be thoroughly and evenly distributed; spreaders without deflecting boards cause serious burning in such "row" applications.

When buying nitrogen fertilisers don't look only at the price per sack, consider other factors too; the potential useful nitrogen per sack, how you are going to use it, and what you want it to do for the grass.

#### Nitrogen and Thatch

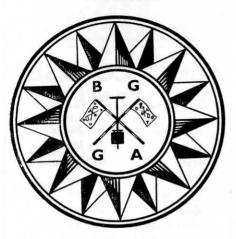
Nitrogen must be used to stimulate grass growth to cover injured turf areas, produce dense sods to exclude weedy growth, and to maintain a pleasing uniform foliage colour. It is necessary to manage turf areas much more carefully with liberal nitrogen as compared to low nitrogen fertilisation. Very liberal nitrogen fertilisation stimulates thatchiness.

Nitrogen stimulates top growth (leaves and shoots) that makes beautiful dense Some of the older shoots, leaves, and roots keep dying and are replaced quickly by new growth. The more nitrogen that is available, the greater the amount of growth which results in more dead and decaying plant material. The larger the accumulation of such decaying material, the quicker buildup of thatch (dead to slightly decomposed Such accumulating plant materials). thatch restricts water and air movement into soils; thus, with low soil air (oxygen) and water, the roots get shallow. Thatchiness and shallow rootedness also occur with liberal nitrogen fertilisation because of less oxygen in soils. Nitrogen stimulates formation of many roots with high respiration rates. This causes an accumulation of carbon dioxide and a reduction of soil oxygen ideal for thatch and shallow roots.

Such undesirable thatch occurs on all turf areas; diseases of grasses are also apt to be serious where surface organic matter accumulates. Through judicious and frequent vertical mowing; aerifying; soil top-dressing; light liming; a balanced and controlled fertiliser programme; and proper watering, thatch can be controlled.

(To be continued in February)

### **News**



### from the Sections

We send every sympathy to our Chairman, Mr. Harry Sheppard, in his sad loss. Mrs. Sheppard passed away suddenly on Friday, 11th December.

### NORTHERN

Chairman: S. Bailes By J. Parker

Hon. Secretary:
8 Goit Stock Terr., Harden,
Bingley, Yorks.

#### December Lecture

WHAT MUST HAVE BEEN NEARLY a record attendance of sixty members turned up for the lecture held on Tuesday, 8th December, at The Market Tavern, Bradford. The talk: "Golf Course Machinery Maintenance", was given by our old friend, Bill Palmer, and K. Davidson, of Ransomes, Sims & Jefferies. This proved to be a most interesting subject and Bill seemed to be in his element in his new rôle. There were many and varied questions, which were ably and clearly answered by both the speakers.

Our thanks are due to Mr. G. Vaughan for arranging the talk and organising the evening, together with our President, Mr. W. Mountain. Following the meeting we had our usual pre-Christmas celebration and our thanks are due to those providing the solid and liquid refreshments.

Our President proposed a vote of thanks and extended his Christmas greetings to all members not present, Mr. S. Bailes (Chairman) seconded the vote of thanks.

#### **Grand National Sweep**

Members will soon be receiving tickets for our Annual Grand National Sweep. Your Committee look for your support in making it a success. This is the chief source of income for our Benevolent Fund.

#### Mr. B. Gilbank

Mr. Gilbank, formerly assistant at Fixby Golf Club, has been appointed Head Greenkeeper to the Kendal Golf Club. I'm sure we all wish him well in his new position.

### NORTH-EAST

By D. Earsman

Chairman:
J. SIMPSON
(Ponteland G.C.)

Hon. Secretary:
Arcot Hall Cottage,
Dudley,
Newcastle-on-Tyne 3.

#### **Annual Dinner**

OUR ANNUAL DINNER WAS HELD at Chester-le-Street Golf Club, by kind permission of their Committee.

Our Chairman, Mr. J. Simpson, welcomed everyone and thanked them for coming along and supporting our Dinner. He was sorry to announce that our President, Mr. L. A. Jones, Mr. C. N. Storey, President of the Northumberland Golf Union and Mr. J. V. Todd, F.R.C.S., President of the Durham Golf Union, were unable to attend owing to other commitments, but sent their apologies, and hoped we would have a jolly good evening.

hoped we would have a jolly good evening. He then introduced the Captain of Chester-le-Street Golf Club, Dr. C. S. M. Hutson, who said how pleased he was to welcome us, hoped we would have a very enjoyable evening and, speaking as a doctor, he thought we were a grand advertisement for good health.

Secretary, Mr. W. A. Crighton, said in his speech that he was always pleased to welcome the greenkeepers of the North East Section and that we would always be welcomed at Chester-le-Street.

Our Vice-President, Mr. Tom Oliver, gave the toast and said that we had come a long way since the section was started in 1930, when horses still pulled the mower. He also thought that there were more opportunities for young lads in greenkeeping than there had been in his day.

Our Chairman thanked the Committee for allowing us the use of the clubhouse and the Steward and Stewardess for the very enjoyable dinner provided.

### SHEFFIELD

Chairman: G.Herrington (Lindrick) By J. J. Dearlove, Hon. Secretary: 63 Langsett Avenue, Sheffield, 6.

#### Meeting

MR. ROSSITER, OF MAY & BAKER Ltd., was the speaker at our November meeting, with the aid of film slides he gave

a two hour talk on the tricky subject of weedkillers and fungicides. After a tiring day travelling the countryside it was no easy task to cover such a wide field in one evening and then have to travel on to Nottingham. We thank Mr. Rossiter for an interesting talk which with an attendance of thirty-five, was another successful meeting.

#### New Member

A welcome to the Section for Mr. J. H. Strothard, who has taken over at the Sickle-holme Golf Club, also to his son, who has decided to take up greenkeeping under his father's wing.

#### W. Greaves's Return

I've had a letter from Wilf. Greaves to let me know he has returned to Yorkshire to be nearer his native Sheffield, and that he has taken over at the Pontefract Club. He didn't sever his connection with the Section during his six years' absence and hopes to renew aquaintance in the near future.

### SOUTHERN

By W. Mason

Chairman: W. E. Moore (Romford) Hon. Secretary: 18 Albert Road, Hendon, N.W.4. Tel.: SUNnyhill 0245

#### Lecture

A MOST INTERESTING LECTURE was given by Mr. Stafford Smith, representative with Messrs. Pan Britannica Industries Ltd., on view were all kinds of chemicals, their use explained and questions invited from greenkeepers. It was pleasing to see a very good attendance.

to see a very good attendance.

The speaker was kept busy answering questions, after which a hearty vote of thanks was

given.

I would like to mention that various samples of chemicals were presented as prizes to the winners of a raffle which took place after the lecture, Mr. S. Smith having brought along a book of tickets for the occasion. The proceeds were given to the section funds (£3 13s. 0d.).

#### February Lecture

We shall be holding our February Lecture on Wednesday, 10th, to be given by Mr. William Finch, of N.D.H. International Products Ltd., subject, "Turf Culture".

#### Annual Dinner

Our Annual Section Dinner will be held at the Talbot Restaurant, on Friday, 26th March, we hope that everyone will do his best to attend. Bring along your friends, tickets obtainable from me: time 6-30 p.m. for 7-0 p.m.

#### **New Members**

We welcome to the section the following new members: L. J. Simpson and R. Atkins, both from Purley Downs Golf Club, and L. H. Miller, of Bellfairs Golf Club.



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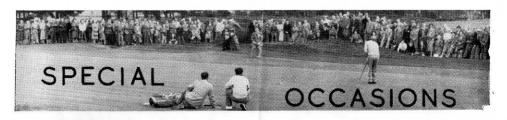
#### Lectures

WE HAD A PLEASANT AND IN-TERESTING evening on the occasion of our Quiz against the N.A.G., the only disappointing thing about it was the poor attendance on both sides, only six greenkeepers attended.

Mr. Eric Ballenger, M.C., was assisted by Mr. Barry Bond, of Superturf Ltd., in keeping the score, and the result was a win for the N.A.G. by one mark.

I was unable to be present on 3rd November, when in conjunction with the N.A.G., a panel of Motor Mower experts, Messrs. Parker & Ballenger, E.T.B. Ltd., D. Ford Ltd., and Horwool Ltd., were there to answer any questions put to them by members. In his report, our Chairman, George Hart said that the questions were very good and answers both interesting and instructive, but the attendance of green-keepers was very poor, only five being present.

We have another two lectures in the New Year and I hope members will do their very best to attend.



**JANUARY** 

13th Southern Section, Lecture.

18th North West Section, Lecture.

25th East Midland Section, Quiz, Blue Boar Hotel.

**FEBRUARY** 

2nd East Midland Section, Lecture, Central Tavern.

4th East Midland Section, Lecture, Blue Boar Hotel.

10th Southern Section, Lecture.

15th North West Section, Lecture.

16th Northern Section, Lecture, White Swan, Leeds. 18th

East Midland Section, Lecture, Blue Boar Hotel.

MARCH

2nd East Midland Section, Lecture, Central Tavern.

North West Section, Lecture. 8th

11th East Midland Section, Lecture, Blue Boar Hotel.

26th Southern Section, Annual Dinner.

APRIL

6th East Midland Section, Lecture, Central Tavern.

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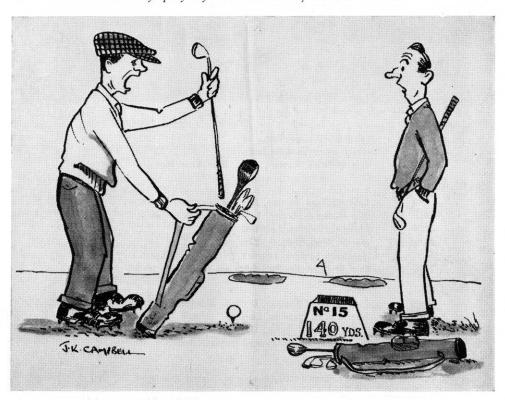
#### SITUATIONS VACANT

HEAD GREENKEEPER wanted for Cardross Golf Club. Salary in accordance with recommendation Scottish Golf Greenkeepers' Association. Free house and light. Pension Scheme. Applications in writing with references to the Secretary, Cardross Golf Club, Cardross, Dunbartonshire, not later than 15th January, 1965.

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General Secretary:
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71 Kelton Street, Glasgow, E.2

#### North Midland Section,

Secretary and Treasurer: W. MILTON, Esq., 88, Americanmuir Road, Downfield, Dundee.

AS SECRETARY AND TREASURER OF the North and Midland Section I would like to wish all members of the Section a Very Happy New Year.



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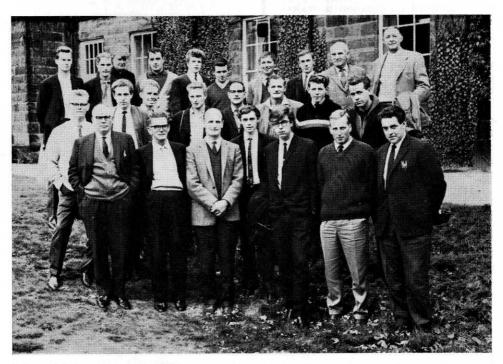
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### THE OTHER HALF OF LAST YEAR'S AUTUMN COURSE AT THE S.T.R.I.



Left to right:

Left to right:
Back Row: J. Kendall, Sunningdale G.C.; C. Peacey, British Nylon Spinners, Gloucester;
K. Christie, Northcliffe G.C.; R. Whyatt, International Harvester Co. of G.B.; Wm. Logan, Stirlingshire Education Trust; L. Davies, Llangollen & District G.C.; P. Caul, Island G.C.; Ian R. Milton, Folkestone G.C.; Lt.-Col. B. C. U. P. Smartt, Trainee Golf Club Secretary; Flt.-Lt. R. O. Phillips, Willingdon (Eastbourne) G.C.

Middle Row: J. Eason, County of Kent Estates Dept.; P. R. Debbage, County of Kent Estates Dept.; K. Hewitt, Chesterfield G.C.; J. Young, Douglas Park G.C.; R. Williams, Borough of Oldbury; S. Osborne, Teignmouth (Haldon) G.C.; D. H. Irvine, Powfoot G.C.;

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#### REPORT ON WAGE SURVEY

The Executive Committee of the British Golf Greenkeepers' Association has considered information provided by a recent survey of greenkeepers' wages in England.

The rates of pay vary widely, even within districts, and it is difficult to compare the value of other emoluments and benefits such as accommodation.

The following scale is, therefore, given only as a general guide. The Contracts of Employment Act, 1963, will do much to eliminate uncertainty about the hours which these basic rates represent:

Head Greenkeeper—£16 to £20 per week.

First Assistant Greenkeeper—£13 to £13 10s. 0d. per week.

Greenkeeper-£12 per week.

In the lowest scale every endeavour should be made to make additions for experience and special ability, e.g. tractor driving.

In the top scale the lower limit will represent comparative newness to a res-

ponsible post or, for an experienced man, a wide range of additional benefits. The upper limit will often be exceeded for very responsible positions at busy clubs, but will otherwise represent a fully responsible position with few marginal benefits.

At present, competent First Assistants are in demand as Head Greenkeepers and the middle scale is, therefore, likely to be applicable only to a man potentially capable of full responsibility in some years' time.

In addition to the rates mentioned, it is recommended that the golf club should operate a pension scheme which will ensure that a retired employee will enjoy an income including his state pension of not less than half his income at retirement.

This information is given because golf clubs frequently seek guidance from the Association as to the wages generally prevailing. The exact figures will remain the subject of negotiation between the golf club and the greenkeeper in the light of the local circumstances affecting the particular situation.

### Mrs. Greenkeeper's Own Corner

#### with Ann Mawson

A Happy New Year to you all, and welcome to our own corner.

Soups are an excellent start to either

lunch or dinner; they are also good for mid-day and supper snacks these cold January days. Most soups are inexpensive, nourishing and can be made quickly if some good stock is available. Thick soups of course will satisfy the appetite more quickly than clear. Soup can also be kept hot very satisfactorily in a vacuum flask and is therefore very useful for packed meals.

Here is a very good vegetable soup to try:—

 $\frac{1}{2}$  b. carrots, 1 small turnip, 2 small onions, 1 leek, 1 parsnip, 1 stick celery, 1 potato, 1 pint of boiling water or stock,  $1\frac{1}{2}$  oz. cornflour,  $\frac{1}{2}$  pint milk, salt, pepper, 1 teaspoonful chopped parsley.

Clean all the vegetables, peel where necessary and chop small; add them to

the boiling water or stock, also salt and pepper. Cook slowly until the vegetables are soft. Mix the cornflour with a little of the cold milk, now add the rest of the milk and add to your vegetables, boil for five minutes stirring all the time, put all through a sieve and reheat

Sprinkle with chopped parsley and serve.

Sufficient for four people—time, about 30 minutes.

Do you know that if you add a teaspoonful of vinegar to the water when boiling an egg your pan will not discolour.

If you have any household tips or recipes which you think other green-keepers' wives would be interested to know, please send them to me—until February . . . .

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TO MANUFACTURERS.—In order that our information may be kept constantly up to date, manufacturers or suppliers are requested to forward their latest trade lists, catalogues, and any other confidential information regarding their products. By so doing the Bureau will be able to function to the mutual benefit of all concerned.

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