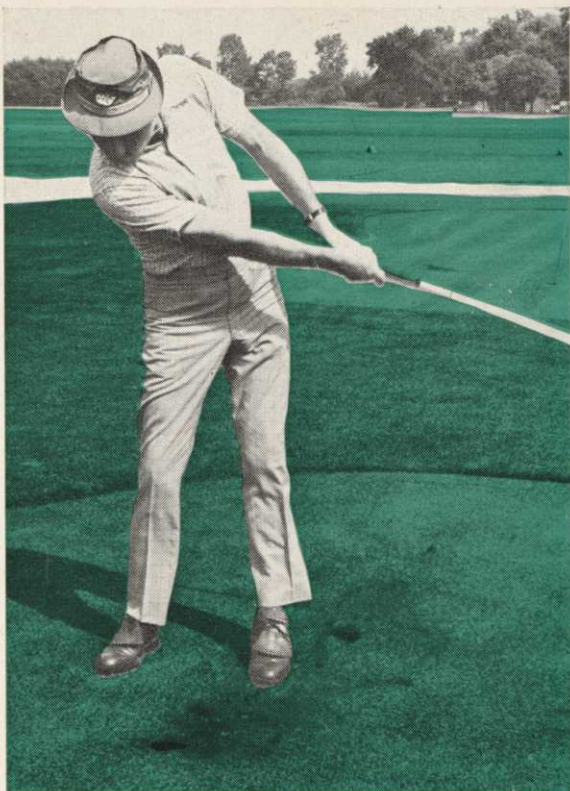


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THE BRITISH GOLF

GREENKEEPER

HON. EDITOR: F. W. HAWTREE

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GREENKEEPERS ASSOCIATION

No. 330 New Series

NOVEMBER 1972

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The Association is affiliated to the
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Tee Shots

Honesty

Apart from his other qualities, an endearing frankness seems to be characteristic of our reigning open champion.

After playing two practice rounds on the Cherry Hill Course in Canada, Trevino sent for David Bennett, his partner in golf course design. Bennett came all the way from El Paso in California and took some photographs.

'It's the first time I've done that' Trevino said 'but this is a great golf course' (Robert Robinson the Canadian designer had supervised the improvements for the Canadian Open) 'the property is very similar to what we have to work with on a residential development in El Paso.'

Somebody asked Trevino how he became a golf designer.

'It's easy' was the reply, 'Find a guy whose business needs a shop. Give him your name and take 51%. Then you go around calling yourself a consultant while he does all the work.' (From *The Toronto Star*)

Energy

The Reader's Digest has published a time and motion analysis of the exercise which golf provides. The average foursome spends 36.6% of their time walking, 8.5% swinging, 20.4% fiddling on the putting greens and 34.5% waiting round. Thus 55% of their time is spent in idleness and they only burn up 223 calories an hour. Running burns up 679 and walking 334... I'll still stick to golf.

Economy

The figure for U.S. consumer purchases in 1971 place golf No. 5 in the list.

Value of purchases in millions of dollars were as follows:

	1971	1970	% Increase
Pleasure Boats and Equipment	1 031.2	939.9	+9.7
Firearms and Supplies	553.8	583.9	-5.1
Photographic Equipment	667.3	610.0	+9.4
Bicycles	384.3	318.3	+20.7
Golf Equipment	367.6	348.0	+5.6
Fishing Supplies	314.9	287.7	+9.5

Table tennis and hockey are at the bottom of the list. The sale of tents, like bikes, increased by over 20%.

Attendance

Nearly 25 000 visitors went to the N.I.G. Motspur Park Exhibition this year: 160 exhibitors shared 150 000 sq. ft. of space.



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Minutes of the 55th Annual General Meeting

held at St. Annes Old Links, Lytham St. Annes,

on Monday, 14th August, 1972, at 3.0 pm

Before opening the meeting, the Chairman rose and read a telegram of congratulation on the 60th Anniversary of the Association from Mrs. B. M. Hawtree which was warmly greeted by those present.

The Chairman opened the meeting, at which there were approximately 70 members present and, in the absence of the President, asked Mr. F. W. Hawtree to occupy the Chair. Mr. Hawtree thanked the Chairman and expressed his willingness to conduct the meeting.

1 Minutes of the last A.G.M.

The Chairman suggested that as the Minutes of the last A.G.M. were printed in the Journal they should be taken as read but one member expressed the desire that they should be read at this meeting; thereupon the Hon. Secretary read the Minutes of the last A.G.M. as requested.

2 Annual Report

The Hon. Secretary read the Annual Report and its adoption was proposed by Mr. Goodwin, seconded by Mr. Moore.

After its adoption the Chairman asked the Meeting to stand in silence in memory of the deceased members whose names had been submitted in the Report.

3 Financial Statement

The Hon. Treasurer then presented the Accounts to the meeting and stated that in his view they were reasonably satisfactory, the only item which might cause discussion was the reduction in the Journal revenue. This he explained was accounted for by the fact that, since the change in publication, the advertising revenue did not now go into the Association figures as it was handled entirely by the new publishers; but, as had previously been stated, there would be a monetary return from the publishers and, of course, the publishing expenses, which hitherto had been shown against the Journal, would decrease.

It was then proposed by Mr. Kingston, seconded by Mr. Fretter, that the Accounts be accepted.

4 Executive Committee Report

The Tournament Sub-Committee elected at the Executive Meeting included Messrs. Carrick, Scoones, Walsh, Folkes and Smith.

The Executive Committee agreed that middle tees (red) should be used for the whole of the competition and they had also agreed to accept three late entries for the Tournament on the recommendation of the Hon. Secretary.

5 Election of Officers

In the absence of Mr. Bretherton, the President, it was proposed that he should again be approached and asked to continue office for the ensuing year. This was unanimously agreed.

Vice-Presidents

It was agreed that the names as listed in the Association Journal should be re-elected and this proposition was also carried unanimously.

Chairman

The Chairman proposed that Mr. H. M. Walsh, Vice-Chairman, should be elected as Chairman for the ensuing year. This suggestion was carried unanimously.

Mr. Carrick, the retiring Chairman, then rose and handed the badge of office to Mr. Walsh and expressed his pleasure at the choice of Mr. Walsh as his successor. He also spoke to the meeting and said how much he had enjoyed his year of office and expressed the sincere hope that he had given satisfaction to the members. It was a year he would always remember and he was most appreciative of the help and assistance which had been extended to him by his officers.

Mr. Walsh then thanked the members for their support of his nomination as Chairman and said that he sincerely hoped he would be able to fulfil the office as satisfactorily as his predecessors.

He then asked Mr. Carrick to accept a tankard in recognition of his services, which had been presented by the members. Mr. Carrick expressed his thanks for the kind gift which he again said would remind him of this year.

Vice-Chairman

On the proposition of the South-West Section it was unanimously carried that Mr. I. Scoones should take over the office of Vice-Chairman for the ensuing year.

Secretary and Treasurer

There was a general request that Mr. C. H. Dix should carry on as Secretary and Treasurer for the ensuing year, which he said he would do and thanked the meeting for their support. He also stated that he would like them to look ahead with a view to finding a successor for this office as he was not prepared to carry on after 1973 and, if at any time prior to then a successor was available, he would be quite happy to hand over the reins at the end of the current year.

Executive Committee

It was unanimously agreed that the Executive Committee should be as nominated by Sections.

Hon. Auditors

The Hon. Treasurer reported that the services of Messrs. Smallfield, Rawlins & Co. had again been most efficient and at his proposal it was unanimously agreed that the Hon. Auditors should be re-elected.

Hon. Solicitor

It was unanimously agreed that Mr. H. Dowding, who had kindly taken over the duties for the Association, should be re-elected for the ensuing year.

6 Any Other Business

The Hon. Secretary was pleased to report that there had been very good support for the Celebration Dinner which had been arranged for Wednesday evening, 16th August, and including guests who had been invited, there should be at least 100 people present.

Sincere thanks were expressed to Mr. G. K. Smyth, representative of Messrs. May & Baker, who had done so much to assist the Chairman in making the arrangements.

Proposed Trip to Boston, U.S.A. to the American Greenkeepers' Convention

The Hon. Secretary reported there had been good response to the proposed trip to Boston in January, 1973, and he felt quite sure that the required number of applications would be received to ensure the trip taking place.

Aer Lingus have prepared an itinerary which will be published in the September issue of the Journal and in addition there will be a brochure issued with the October Journal which will give full details of the proposed trip.

(Continued on page 9).

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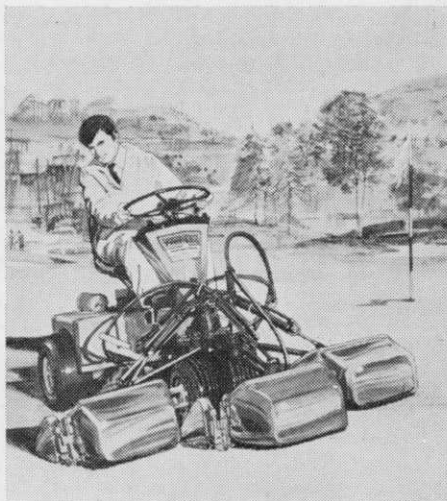
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Wage Scale Recommendations

Mr. Goodwin, speaking for the Midland Section, expressed the keen disappointment of his own Committee at the latest figures issued by the Association. In their view they were not sufficiently high to prove satisfactory to the members. After some discussion it was felt that nothing higher should be quoted at the moment; it was appreciated that the Midland Section was in a highly industrial area, but it was felt their suggestions would not meet with approval in the wider area of the country.

Greenkeepers' Title

There was a suggestion made by Mr. Sargent concerning the title of Greenkeeper and he was strongly in favour of changing the title to Superintendent as he felt this would give the job improved status. This question was discussed at considerable length, with various reasons for and against being put forward, and finally the Chairman asked that there should be a show of hands as to the general opinion of the Meeting regarding this proposal. A count was then taken and there were 23 for a change and 24 against, the balance of the meeting abstaining.

There being no further business the meeting closed with a vote of thanks to the Chair by Mr. C. A. Moore.

THE BRITISH GOLF GREENKEEPEERS' ASSOCIATION

ANNUAL DRAW RESULTS

DUNLOP MASTERS TOURNAMENT 4th-7th OCTOBER 1972

*If winner of starred entry is already in list, substitute player will be taken from P.G.A. Merit List.

Player	Ticket No.
Baiocchi H.	04781
Llewellyn D.	08007
Gregson M.	21476
Balding A.	05338
Gartenmaier O.	02834
Humphreys W.	23951
Kinsella J.	06510
Hood V.	19651
Gallacher B.	10703
Elder L.	05323
Torrance S.	10309
Horton T.	18934
Graham D.	01017
Hunt G.	20380
Newton J.	08576
*Winner John Player Classic	14066
Bannerman H.	02206
Jacklin T.	09862
Platts L.	14628
*Winner Wills Open	00292
O'Connor C. (Jnr.)	16965
Huggett B.	18348
Oosterhuis P.	10993
Ballesteros M.	02164
Bembridge M.	09294
Garrido A.	07041
Pollard E.	02765
Wilcock P.	23628
Charles B.	13136

Player	Ticket No.
Hunt B.	12869
O'Leary J.	10096
Barnes B.	07391
Whitehead R.	21018
McClelland D.	21086
Clark C.	19747
Jackson H.	04606
Butler P.	05363
Cunningham G.	24359
Coles N.	11435
Defoy C.	11806
Townsend P.	07002
Job N.	09748
Rees D.	09464
Bousfield K.	10930
Mitchell B.	18691
Vaughan D.	10897
Garner J.	24393
Brown E.	06446
De Vicenzo R.	07658
O'Connor C.	19350

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Seaweed – Facts and Experience

by

Ernest Booth

The Annual Reports of the Institute of Seaweed Research and the scientific literature contain a wealth of scientific evidence and practical experience on the manurial value of seaweed which deserves serious attention.

The superficial view is that seaweed contains some potash and little nitrogen or phosphate and, like all organic manures, it is often dismissed on this score. Yet despite its low phosphate content, seaweed has been shown to give a very substantial increase in the available phosphate in the soil. This effect is due to ketogluconic acid, a compound which is present in seaweed and is also excreted by common soil bacteria. In fact, current research suggests that this compound is probably the main factor controlling the supply of phosphate available to the plant.

The other components of seaweed are alginic acid, some unusual carbohydrates such as mannitol, fucoidan and laminaran, along with large quantities of trace elements. It also contains plant growth hormones and gibberellins, mere traces of which cause a dramatic increase in yield when sprayed on pasture. All these unusual compounds have been shown to affect soil fertility or to have other valuable properties such as the suppression of fungal disease (laminaran) or to chelate with metals to make them available to the plant (mannitol and fucoidan).

Alginic acid accounts for about 25% of seaweed and until recently it was believed to be found only in seaweed. Work at Rothamsted in the 1940's proved the soil-conditioning effect of alginic acid; subsequently it was shown that it also had the unusual effect of increasing seed germination. The beneficial effect of the acid on grass was known a decade ago and patents were taken out in Germany and the U.S.A. which claimed that seaweed preparations effectively established the growth of grass in the unfavourable conditions on the verges of motorways. These facts were well established but seemed inexplicable until 1965 when it was shown that alginic acid is a natural product in the soil where it is excreted by the common bacteria, *Azotobacter*. Soil fertility and the nitrifying bacteria had always been linked together. The alginic acid excreted by these bacteria adds to their importance as soil conditioners and aids seed germination; it also gives a sound explanation for some of the properties of seaweed.

Experience in many coastal areas e.g. Ayrshire and East Lothian, showed that seaweed was an unusually good manure for pasture and, in particular, it promotes early growth. This caused the Institute of Seaweed Research to approach the Sports Turf Research Institute at Bingley, where trials took place in the wet summer of 1954 and again in 1956. It was concluded that for top dressings, particularly on sandy soils, the addition of up to 10 per cent of seaweed in a prepared compost would improve drought resistance of the treated turf. The results were sufficiently promising to merit a large-scale trial which started at Muirfield in 1960 through the courtesy of the Honourable Company of Edinburgh Golfers. This trial was successful in every way and one of the more important results was the rapid regrowth on the approach to the greens where so much damage is caused by pitching and chipping.

Seaweed has been used in 'sports turf' mixtures for nearly 20 years and the liquid extracts have also been used throughout this period. As foliar spraying became established the liquid seaweed extracts have gradually replaced seaweed meal and they may be applied alone or mixed with other sprays. Prepared composts can also be materially improved by watering with a liquid seaweed extract.