Norton Villiers develop new 171 c.c. vertical shaft engine with power take-off.

Norton Villiers have announced the development of a new vertical shaft engine for the rotary mower engine market in Britain and overseas.

Villiers re-enter the professional and domestic rotary grass cutter engine market with a 171 c.c. engine designed for manufacturers contemplating producing new rotary mowers as well as for existing machines. A prototype was displayed at the National Association of Groundsmen's Annual Show at Motspur Park.

The engine is continuously rated in the range 3 1/2 to 4 1/2 h.p. and is intended to be directly interchangeable with imported engines on existing machines. It has been specially developed to meet the need for a British product in the world's expanding rotary mower engine market, and an outstanding feature is its constant torque throughout a wide range of speeds.

This approaches the ideal characteristic required for engines required to maintain a high work rate and cutting power even when thick and wet grass is encountered.

The engine also features auxiliary power take-off points available from either side, which are suitable for driving wheels of a roller, and a two-stage low tone silencer with exhaust port below the machine deck gives a much lower noise level. A vertical recoil starter provides an easy starting position.

Operation testing by Villiers has already indicated the considerable potential of this newcomer and an essential part of development will be evaluation by equipment manufacturers. Prototypes, like the one exhibited at Motspur Park, will be submitted to rigorous testing on a range of machines before production begins, to ensure that the engine meets Villiers' high standards.

Subject to further development of the prototype, preliminary details of this new Villiers' engine are:

B.H.P.—in the range 3 1/2-4 1/2; weight (approximately)—18-20 pounds; cubic capacity—160-195 c.c.; pull-up rewind starter; fuel tank capacity—3 pints; silencing—low tone two-stage unit with exhaust port below deck; auxiliary power take-off points from either side with 9 to 1 reduction at 0.5 h.p.; height (approximately)—9 inches; width (approximately)—9 inches; length—16 inches.
Knock-out Competition

The final of the Knock-out Competition was played off at Glen Gorse Golf Club on Wednesday, 7th October, 1970. The winner was Mr B. Bates, Vice-President of this section, and the professional at Birstall Golf Club. The runner-up was Mr W. Wood, Head Greenkeeper of Stanton on the Wold Golf Club.

New Members

We welcome to this section two new members, Mr A. Durand, "Lancot," Willoughby Road, South Rauceby, Sleaford, Lincs., and K. Elliott, 48 Meadow Vale Crescent, Clifton Estate, Nottingham.

SOUTHERN

By F. W. Ford

Chairman:
C. A. Moore
(Stanmore)

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

Quiz

Our President, Mr Jack Wallis-Arthur, welcomed a fairly good gathering of members to the first meeting of the winter programme. One new member was present, Paul Thomas, of Fisons.

Considering the amount of problems greenkeepers have these days, one would have thought that our new Chairman Quiz Master would have been bombarded. However, the questions asked were discussed at length.

The forsy and against automatic sprinklers occupied a fair length of time and although one member was quite happy with his, others related various mechanical and installation troubles. One member summed it up by saying that he thought it would take at least four years before the system was perfected.
To discourage foxes from digging on the greens and in bunkers, several methods were mentioned, such as using Creosote and Rentokil, etc. My own successful answer to a whacking deep hole which appeared daily in the face of a sand bunker was to fill the hole with wall-bricks.

Other subjects discussed were hard spots, pitch marks on greens, mowing and worm-killers.

Past Chairman, Mr J. K. Glass, concluded the evening by calling for a vote of thanks for Mr P. A. Moore for the way in which he had conducted the Quiz.

December Lecture
Wednesday, 2nd December, 6.30 p.m. at the Stirling Castle, London Wall, Moorgate, E.C.2., Mr Peter Wyatt of Pattisons will talk on "Aeration and Drainage".

"Gentlemen Please"

There are still a lot of overdue subscriptions and for the benefit of those who are not sure, possession of one of the New Membership cards is proof of payment. Cheques and postal orders please; no cash; and postal orders must be crossed.

Southern Secretaries v. Southern Section Greenkeepers, Walton Heath, Wednesday, 14th October

Determination, a wonderful performance by the local boys, Fred, Harry and Clive, and a bagging hook! helped to stop the Secretaries from making it three in a row. The trophy is now back with yours truly and the series stands at two all.

The thank-yous to Col. Badham, Fred Dulake and the Steward and staff for the splendid Walton Heath treatment we had received were made by the Captain of the Secretaries, Mr R. Bateman. He also congratulated the greenkeepers and handed over the cup, adding that there was a drink all round from the absent Mr G. Waites.

Our Chairman, Mr C. A. Moore, said he would like to endorse the Captain's remarks about Walton Heath and added his congratulations to the winning team.

Secretaries

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<td>J. Millar (Beds. C.G.U.)</td>
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<td>J. Cumming (Retired)</td>
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<td>C. Badham (Walton Heath)</td>
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Secretaries — 7 ½

Greenkeepers

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<td>H. Emery (Walton Hth.)</td>
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<td>C. Osgood (Walton Hth.)</td>
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<td>G. Payne (Maidenhead)</td>
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<td>E. Folkes (Flackwell Hth.)</td>
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Greenkeepers — 9 ½

Midland

By R. Goodwin

Chairman: G. HART
Hon. Secretary: G. HART
Gay Hill
4 Burton Old Road, Streethay, Lichfield, Staffs.

Autumn Tournament

The Autumn Tournament was held at the Walsall Golf Club on Tuesday, October 6th, over 27 holes. Gil Woodward and his Green Staff had the course in perfect condition, while Mr and Mrs Ash provided excellent meals and service in the clubhouse.

Our Chairman, George Hart, thanked the Captain and Committee of Walsall Golf Club for extending the courtesies of the course and clubhouse and also for so generously paying the cost of meals to Greenkeepers throughout the day.

He also thanked Members of Walsall who provided prizes and also to the many trade firms and Vice-Presidents who also supported our prize list.

The thanks of the Section also go to Mr Bill Payne and Mr Neil Prior who looked after the score cards, etc.

The prizes were presented by Mr N. Armitage, Captain Elect of Walsall Golf Club, who paid tribute to Gil Woodward for his excellent work over many years at Walsall. He also found a few words to say on the very good record of Gilbert as a golfer.

Prize Winners (27 holes)

Best gross, G. Woodward, 116 (putter); 1st nett, H. Drewitt, 102 (Clayton Cup and canteen of cutlery); 2nd, R. Pullen, 103½ (clock); 3rd, D. Haynes, 107 (clock); 4th, E. Benbow, 109½ (Roston lighter); 5th, V. Smith, 111½ (pullover); 6th, A. Boraston, 112 (pullover); 7th, A. Cutler, 112 (tankard); 8th, R. Goodwin, 112½ (Scotch whisky); 9th, D. Brazier, 112½ (Scotch whisky); 10th, J. Bevan, 113 (houldall); 11th, G. Smith, 113½ (dozen golf balls); 12th, T. Jones, 113½ (dozen golf balls); 13th, T. Morris, 116 (dozen...
golf balls); 14th, G. Hart, 116 (drinking mugs); 15th, A. Stephens, 117 (bottle of wine); 16th, W. Marnock, 117½ (bottle of wine); 17th, T. Cutler, 119 (bottle of wine); 18th, G. Bunting, 119½ (bottle of wine); 19th, R. Smith, 121½ (bottle of wine).

A Boffy, W. Boyce, E. Thomas, A. Hastilow and R. Chandler received one golf ball each.

R. Pullen won the best aggregate prize for the year’s tournaments with a nett score of 282 (table lighter).

Visitors’ Invitation: 1st, Mr W. Heath, 69 (6 golf balls); 2nd, Mr B. Baxter, 74 (3 golf balls).

R. Goodwin and Vic Smith each received a golf ball for having a “2” on their card. V. Smith—two balls for a “1”.

Vic Smith’s Ace
During the afternoon round of the Autumn Tournament, Vic Smith holed out in ONE at the 182 yards fourth hole. Congratulations, Vic, and I sincerely hope the liquid round was not too expensive. Incidentally, the ball with which Vic scored his first ever ACE was one of a dozen he won in the Spring Tournament at Oswestry, donated by "Flymo". Perhaps it would be good advice to save one for next year’s Annual Tournament.

Prize Donors
Our thanks go to the following who donated to the prize list:—A. H. Clayton, Esq.; British Steel Shafts Ltd.; Synchemicals Ltd.; Pattisons Ltd.; Flymo Ltd.; May and Baker Ltd.; Atco Ltd.; Parker and Ballinger Ltd.; Rigby Taylor Ltd.; J. P. Harvey Ltd.; Cannock Agricultural Ltd.; Tudor Mowers Ltd.; Mr W. Payne; Mr J. R. Greenhalgh; Mr F. D. Brown; Mr Carl Bretherton; Mr D. Fitton (Professional); Mr K. Roofhouse (Captain); Mr J. Morris (House Steward); Mr T. P. Hawker (Competition Secretary); Mr G. Green (Hon. Secretary); Mr N. Armitage (Captain Elect); Mr D. Fernie and Mr R. Beever.

Vice-Chairman
The Committee have elected as Vice-Chairman to the Section Vic Smith who has been a prominent member of this Committee for several years. A most popular selection, I am sure that everyone will join me in wishing you every success for many years to come, Vic.

New Members
A warm welcome to the following members who have recently joined the Midland Section:—R. J. Lane (Shifnal Golf Club); C. F. Cox and P. T. Johnson, both from the Ley Hill Miniature Golf Club, Birmingham.

Autumn Lecture
A report on the Autumn Lecture held at Handsworth Golf Club on October 19th will appear in next month’s Journal.
M. Barrett and C. Ramsden beat G. Herrington and L. Carless 4 and 3; G. Mason and J. Scott beat R. N. Maltby and E. Palmer 5 and 4; C. Garnett and A. Burge beat H. Herrington and H. Gillespie 6 and 5; R. Elmsley and R. Lambert lost to C. Colton and D. Chappell 2 up.

Coach Cup
The Coach Cup Trophy was played in the morning before the Northern Match over the second nine holes. The Stableford competition was won by E. Palmer of Abbeydale with 18.7/16 points, scoring at every hole except the last.

Leading scorers were:—E. Palmer, 18 7/16; G. Herrington, 17 1/2; L. Carless 16 9/16; D. Chappell, 16 1/2; C. Colton, 15 3/4.

Lectures
A change has had to be made in the venue of our lectures. These are now held at the Hare and Hounds Hotel, Nursery Street, Sheffield, on the third Thursday in each month.

Congratulations
Congratulations to J. Waddoup, formerly of the Abbeydale Golf Club, who has taken over at Scunthorpe Holme Hall Golf Club.

New Members
We welcome to the section C. Hawke and D. Cheetham, both of Hillsborough Golf Club.

By H. M. Walsh
Chairman: D. Paton
(Royal Birkdale)
Hon. Secretary: Horrobin Cottage, Old Links Golf Club, Montserrat, Bolton, Lanes.

Autumn Tournament
Our thanks are due to the Captain and Council of the Swinton Park Golf Club for their kindness in granting us the courtesy of their course and the facilities of the clubhouse, for their generosity and the very warm welcome extended to us on the occasion of our Autumn Tournament. A really wonderful day was had by all. I wish also to extend our sincere thanks to Mrs Brown for the excellent meal provided, to the general ground staff for the good condition of the course, to Mr G. Vaughan for the very good work he put in re the taking of the monies and keeping the score sheet up to date. Our thanks, indeed our very sincere thanks, to all the prize donors, both individual and of the trade. Thank you once again. Prizes were presented by the Captain, Mr Brownhill, who extended to us on behalf of himself and Swinton Park Golf Club a very warm welcome.

By S. A. Tucker
Chairman: M. Geddes, 23 Fenton Place, Porthcawl, Glamorgan.
Hon. Secretary: 36 Clare Road, Morriston, Swansea, Glam.
The weather was excellent and the course was in wonderful condition, thanks to Jack Moore and his staff. Also many thanks to the Steward and Stewardess for the way they looked after us with solid and liquid refreshment. It is many years since we played there and the course has been extended in length and layout. One gentleman I would like to thank is Mr Neil Prior, of Sutton & Son, for the wonderful work he did for me with the cards, etc. I felt I could go and play the game with no worry about the work I had left for him to do inside. Thank you, Mr Prior.

**Prize Winners**

The following were the prize winners:

1st prize and President's Shield was won by A. Price of Carmarthen Golf Club with a nett aggregate of 103 for 28 holes.

2nd prize, a Ronson Lighter, given by Pattison & Co. Ltd., was won by E. J. Thompson with a nett 103½.

3rd prize, a bottle of whisky, given by R. S. Bird, Vice-President, was won by J. Rees, with a nett 106, won on the last 9 holes.

4th prize, a bottle of gin, won by S. Tucker with a nett 106.

Many thanks to our able trade firms, golf clubs and people who have helped to make our meeting such a success — again many thanks to you all.

(Cont'd. from p. 8)

of golf course turf the potential development of serious problems.

**Challenge to superintendents!**

The superintendent will, as in the past, be expected to meet the new challenges on his horizon. Again, he will be aided by research, education and the men providing services, equipment and products. Tools now at the disposal of the golf course superintendent will become even more sophisticated. It will be up to the superintendent to master these tools, recognize increasingly complicated production problems, supervise the operation of engineering marvels of equipment, provide in-service training for employees, and plan and organize functional work programs. He remains the key to turn the technical advances in his field into industrial progress. All phases of future turf industry growth will provide the opportunities for professional advancement. How well he can perform the complicated and demanding tasks placed upon him will determine whether he will sink or swim in the area of golf course maintenance.

*With acknowledgements to the "Golf Superintendent"

**California Greenery**

In the United States, California ranks first in total number of golf courses. The state's 663rd course was recently opened for play at Carmel. That was the same course honoured as the 10,000th in the country. New York—with 641 courses—is running a close second, followed by Pennsylvania with 567, Illinois with 464, and Michigan with 460.

But while California has the most courses, the Pacific coast area also has the highest ratio of players per course with 36,982. Other areas of the United States shape up like this: South, 21,801; North-east, 20,190; South-west, 18,733; Mid-west, 14,721; and Mountain, 14,092.
SITUATIONS VACANT

UPMINSTER GOLF CLUB require experienced Greenkeeper; prospects of advancement are good and whilst no accommodation is available at present a lodging allowance can be made; wages by negotiation. Apply W. B. Dunn, Secretary, Upminster Golf Club, Hall Lane, Upminster, Essex.

CARNoustIE TOWN COUNCIL require two Assistant Head Greenkeepers. Applicants must have considerable experience of greenkeeping in all its aspects. N.J.I.C. salary scales will apply (maximum £1,170 per annum). Age 25-40 years. Good prospects. Rented accommodation will be made available. Applications in writing to E. Kerr, Town Clerk, Carnoustie, within one month of the date of appearance of this advertisement.

HEAD GREENKEEPER WANTED FOR LINKS COURSE. Salary up to £1,500 per annum plus house. Applications to the Hon. Secretary, Cleveland Golf Club, Redcar, Yorks.

Wanted: experienced working Greenkeeper to construct and maintain, under professional guidance, a new nine-hole course. Accommodation in clubhouse can be provided. Preference will be given to married man with wife prepared to undertake part-time duties in clubhouse.

Apply, giving particulars and salary required, to Secretary, South Pembrokeshire Golf Club, Defensible Barracks, Pembroke Dock, Pembs.

HEAD GREENKEEPER required due to retirement of present Greenkeeper after 48 years' service. Salary according to qualifications. Accommodation to be arranged. Apply stating experience and qualifications to:-

THE SECRETARY
THE GOLF HOUSE CLUB
ELIE
FIFE.

ST GEORGE'S HILL GOLF CLUB

require a

HEAD GREENKEEPER

St George's Hill Golf Club require a Head Greenkeeper on the retirement of the present Head Greenkeeper after 24 years of service on 31st March 1971.

This is a job for a really experienced greenkeeper with, preferably, a knowledge of heather and pine courses. He will be supported by a first-class greens staff.

A rent-free house near the course — heating, light and rates all paid for — goes with the job. Salary is negotiable.

Please apply stating age and experience to:

The Secretary, St George's Hill Golf Club, Weybridge, Surrey.