CLEARANCE SALE
EX DEMONSTRATION EQUIPMENT

Jacobsen Turfcat 4 wheel drive with 60" fine turf flail. 540 hours. Good condition. Ex demo hire £6,300

Jacobsen LF100 ex demo with 4 wheel drive 1.5" 6 groovers and oil alert greens aerity. 364 hours. Good condition £17,700

Iseki TA 530 tractor 36hp c/w cab on oversize tyres 475/65 D20 rear and 100/95 15 front ex demo 1395 hours £10,500

Iseki T2 320 Hydro tractor 24hp standard spec. Ex demo. 13.6-16 tyres. 61 hours £2,250

Iseki SG15 ride on mower c/w oil alert £5,500

Jacobsen 620D tractor on turf tyres c/w MF240 cab 2000hrs £4,500

Jacobsen Diesel Triking Triple from £6,500

Jacobsen Greensking Petrols from £2,750

John Deere 755 Compact £350

Toro Greensmaster 300 complete with cutters, 1985, approx. 2,200 hours. Recent re-conditioned engine. Good working order. Offers around £2,000.

Ellie Greenkeeper, West Yorkshire
Tel: 01943 465392

Sissis Triple Vee Mo Scarifier £1,160 ono
Sissis Litlimis 6t high Tip sweeper collector £1,200 ono

KELPIE
NATURAL COMPOSTED SEAWEED SOIL CONDITIONER

FROM STEWARTS
TEL: 0131-463 6617
FAX: 0131-463 6611

Toro Greensmaster 300 complete with cutters, 1985, approx. 2,200 hours. Recent re-conditioned engine. Good working order. Offers around £2,000.

Ellie Greenkeeper, West Yorkshire
Tel: 01943 465392

Sissis Triple Vee Mo Scarifier £1,160 ono
Sissis Litlimis 6t high Tip sweeper collector £1,200 ono

All items plus VAT at the current rate prevailing.
LEISURE AND TOURISM DIRECTORATE

Turf Specialist

£16,791 - £18,894 per annum + Leased Car

In addition to its success in the Britain in Bloom Competitions, Bournemouth has an excellent record for the quality of its sports turf.

Due to the retirement of the previous postholder, a turf specialist is required within the multi-disciplinary Client Leisure Services Division to maintain and build on present standards including:

- Advising on the maintenance of turf.
- Monitoring 3 golf course contracts.
- Liaising with sports turf user groups.
- Designing and developing new sports turf facilities.
- Preparing documentation for tenders.

You should have a minimum of 5 years practical turf culture experience of which at least 2 years are at Head Groundsman/Greenkeeper level together with a National Diploma in Turf Culture or equivalent qualification.

The attractive salary and benefits package, which includes private medical insurance, will be supported by relocation assistance where appropriate.

If you are interested in joining our Recreation Team, please contact Personnel Services, Town Hall, Bournemouth, BH2 6DY telephone (01202) 552066 ext 225012230 (24 hours answerphone on (01202) 299895) for an application form and further details. Closing date for receipt of applications is 10 April 1995.

The Authority is committed towards achieving equal opportunities.
Avoncrop Amenity Products

Applications are invited for the position of

REGIONAL TECHNICAL SALES MANAGER

1. To operate in Cambridge, Bucks, Bedford, Hertford and Essex
2. To operate in East Sussex and Kent

These two positions have been created by Avoncrop’s continuing expansion in the Amenity Market and is an excellent opportunity for the successful applicants to join an already proven Sales Team selling a wide range of Chemicals, Fertilisers, Grass Seed, Topdressings, Line Marking Materials and General Horticulture Sundries, from a portfolio of Main Distributors including Farmura, Levington Horticulture, Maxicrop, Miracle Amenity Care, Rhône Poulenc, Rufford Topdress, Scotts, Supaturf, Vitax, etc.

A good basic salary is offered with the added opportunity to earn commission and bonus. A company car is provided along with other fringe benefits.

Applicants should be suitably qualified with sales experience and be self motivated.

Please apply in writing or telephone in strictest confidence, to Rod Feltham, Avoncrop Amenity Products, Northfield, Station Road, Sandford, Nr Bristol BS19 5RA, Telephone 01934 820868

Blackpool North Shore Golf Club

Invite applications for the position of

HEAD GREENKEEPER

The successful applicant will be responsible for all aspects of Course Management.
He/she will require the appropriate qualifications and possess the necessary management and supervisory skills to lead and motivate staff, organise work programmes, work within budgetary controls and maintain health and safety requirements.
Salary negotiable, dependent upon age and experience.
Applying in writing, with full CV, to:
Mr D. West, Captain, North Shore Golf Club, Devonshire Road, Blackpool

Yelverton Golf Club

invites applications for the position of

HEAD GREENKEEPER

for an 18 hole moorland course, situated on Dartmoor 8 miles north of Plymouth.
The successful applicant will be responsible for all aspects of course management and preparation. He or she must have appropriate greenkeeping qualifications and possess the necessary management and supervisory skills to enthusiastically lead and motivate staff, organise work programmes and maintain Health & Safety requirements.
Salary negotiable.
Applying in writing with full CV to:
R. J. Tibbs, Secretary/Manager, Yelverton Golf Club, Golf Links Road, Yelverton, Devon PL20 6BN

Downfield Golf Club

Dundee

Invites Applications For The Position Of

HEAD GREENKEEPER

From persons of proven ability with appropriate qualifications and experience in all aspects of course maintenance and development related to an inland championship course.
A comprehensive knowledge of machinery, and their maintenance, together with the ability to direct and motivate staff are essential qualities required of applicants.
The Salary is negotiable and will reflect experience and qualifications.
No accommodation is available.
Applications in writing, including a full CV to:
B F Mole Esq
The Managing Secretary, Downfield Golf Club, Turnberry Avenue, Dundee DD2 3QP

Bath Golf Club

requires a

COURSE MANAGER

Founded in 1880, Bath Golf Club’s 18-hole course overlooks the historic City of Bath.
Applicants for this position must be fully qualified with proven practical experience in all aspects of greenkeeping. The ability to lead and motivate an enthusiastic team is essential.
Salary negotiable according to experience – no accommodation.
Please apply in writing with full CV to:
The Managing Secretary, Bath Golf Club, Sham Castle, North Road, Bath BA2 6JG

Pontefract and District Golf Club

HEAD GREENKEEPER

Applications are invited from suitably qualified persons for the post of Head Greenkeeper.
Salary negotiable from £16,995 to £18,250.
Please send s.a.e for application form and further details to the Secretary, c/o 24 Fair View, Carleton, Pontefract, West Yorkshire WF8 3NU.
Closing date 8 April 1995

* Remember: BIGGA now accepts credit cards – the convenient way to pay membership subscriptions or to buy BIGGA merchandise
**Royal Mid-Surrey Golf Club**

**COURSE MANAGER AND HEAD GREENKEEPER**

This large 2-course London golf club, which has hosted many national events over the years including the English and Boys Championships and The Equity & Law Challenge, is seeking to appoint a Course Manager and Head Greenkeeper.

The successful applicant should be an existing Head Greenkeeper and meet the following criteria:

- Should be aged under 50 years, have experience of running an existing golf course and have the ability to motivate and head an established greenkeeping team.
- Suitable qualifications and experience in modern greenkeeping techniques, and use of turf machinery and automatic irrigation systems are essential.
- Should be able to organise work programmes, fix budgets and set long term targets.

A good financial package with benefits is available for the right candidate including a three bedroom house within a few minutes drive of the Clubhouse.

*Apply in writing with full CV to:*

M.S.R. Lunt, Secretary, Royal Mid-Surrey Golf Club,
Twickenham Road, Richmond Upon Thames, Surrey TW9 2SB

---

**Petersfield Golf Club**

**Hampshire**

Requires a

**HEAD GREENKEEPER**

To take charge of existing old established 20 holes and nearly completed, new 18 hole course, which will be growing in from May '95 to September '96.

Situation will suit current Head Greenkeeper in 1st position, wishing to gain growing in experience, or a 1st assistant of 4/5 years standing with experience of tees/greens construction and drainage, preferably qualified to phase three standard.

This very old established, progressive and expanding members club will be operated as a 27 hole course, from October '96 and offers considerable future potential for the right person. No accommodation available. Initial salary £18.5k with contributory pension scheme.

Applications in own handwriting, together with full CV to:

Mr R R Hine, General Manager, Petersfield Golf Club,
The Heath, Petersfield, Hants GU31 4EJ

---

**Guildford Golf Club**

Invites applications for the post of

**FIRST ASSISTANT GREENKEEPER**

Preference will be given to an experienced, qualified applicant who is also a competent golfer.

Salary in accordance with BIGGA recommended scales – no accommodation available.

Applications in writing with full CV to:

Mr R E Thomas, Secretary, Guildford Golf Club,
High Path Road, Merrow, Guildford, Surrey GU1 2HL

---

**The Hesketh Golf Club**

Requires an

**ASSISTANT HEAD GREENKEEPER**

Applicants must be suitably qualified and experienced in all aspects of course management. Salary negotiable.

*Applications in writing with CV to:*

The Secretary, The Hesketh Golf Club,
Cockle Dicks Lane (off Cambridge Road)
Southport PR9 8QQ

---

**Birchwood Golf Club Ltd**

Require an

**ASSISTANT GREENKEEPER**

To join a young, enthusiastic team committed to continue the development of our course.

Apply in writing with CV to:

Mr P J Baume, Course Manager,
Birchwood Golf Club Ltd, Kelvin Close, Birchwood,
Warrington, Cheshire WA3 7PB

---

**Weston-super-Mare Golf Club**

Applications invited for a

**FIRST ASSISTANT GREENKEEPER**

Applicants should have at least 5 years experience in all aspects of Course Management.

Knowledge of Links Courses an advantage.

Apply in writing to:

The Secretary, Weston-super-Mare Golf Club,
Uphill Road North, Weston-super-Mare, Avon BS23 4NQ

---

*Remember: BIGGA now accepts credit cards – the convenient way to pay membership subscriptions or to buy BIGGA merchandise*
Sufficient levels of water availability to the roots of turf grasses are imperative for their healthy growth and development. If the plant roots are either starved of water or forced to tolerate conditions of waterlogged soil, the turf will rapidly show signs of stress, increased susceptibility to disease and in severe cases, even death. The specific water requirements of any given turf area depends on the grass species present in the sward, environmental conditions and the use of the turf area. Effective irrigation systems and correct drainage of the turf areas are required in conjunction with the experience of the greenkeeper to determine the amount of water to be applied and when.

However, certain situations arise in which, irrespective of the amount of water applied to a given area, sufficient water is not made available to the plant roots. Examples of these are high spots and slopes which will generally dry out more rapidly than surrounding areas, compacted soils, turf supporting a deep thatch and areas affected by water-repellent soils. In each case, applications of water alone may not provide adequate levels of available moisture in the areas where it is most needed. To overcome this, products can be applied which effectively make the water wetter than normal. These wetting agents have been used for many years to improve water penetration in areas from which water would normally shed. Advances have been made regarding the type of molecule used in these wetting agents to ensure that they pose no adverse effect on either the soil structure or the turf itself.

The market now supports a range of wetting agents that have been specifically developed for use on areas of fine turf. This is a dramatic advance from early attempts to increase soil wetness in problematic areas through application of soap and detergent solutions. Both of these products act to reduce the surface tension of water thereby increasing its ability to wet the soil when applied. However, these chemicals were not designed for this purpose and problems such as scouring and adverse effects on the soil structure occurred.

So-called non-ionic wetting agents are arguably the best products to use if wetting agents are to be applied to a given area. Because the overall charge on the molecule is neutral, they persist in the soil to varying degrees and are the least phytotoxic of the wetting agents to the sward. The surface tension that exists on the surface of a water droplet is the result of forces between the individual water molecules within that drop. Each molecule pulls towards the surrounding molecules resulting in the spherical water drop. If the drop lands on a surface which resists wetting, the water droplet remains in a similar shape. This effect is the same as that seen by water as it beads on the paintwork of a recently polished car. If this condition occurs on turf that is difficult to wet, the water will either run off the area or be lost through evaporation before it is able to penetrate the soil to the rootzone. Wetting agents reduce the attractive forces between individual water droplets and allow the water to spread across areas of turf which normally show a natural water repellence. Lowering water tension physically changes the way in which it moves in the soil and allows more rapid water movement and more uniform wetting.

Different wetting agents will vary in their effectiveness to wet soils, either in their ease or duration of efficacy. Most of the wetting agent products available for use on amenity turf are composed of varying percentages of esters, alcohols and/or ethers. It is essential to adhere to their specific rate of application and dilution, so as to achieve maximum effect and longevity in the soil and avoid phytotoxicity which can result from incorrect application. Areas of turf which show annual effects of either water-repellent soil or general drought stress, should receive the initial wetting agent application prior to onset of the symptoms, at the start of the growing season. In severely affected areas, much can be gained from regular wetting agent applications through the April to October period, spraying the product at four to six week intervals. This can be carried out in combination with aeration to aid turf penetration.

The non-ionic wetting agents are water soluble and are therefore applied to the turf through a sprayer or watered on in solution. They are available in three main forms: as a granule, a liquid and a concentrated block which can be placed on-line in a hose for hand-watering certain areas. The type of product used depends on personal preference and how any one specific course reacts following its application. The cost of wetting agents is something that should be considered before choosing a specific product. Some products may appear cheaper than others per given volume of concentrate, but these may not contain the same amount of active ingredient nor subsequently provide the same degree of efficacy as each other.

Wetting agents should be applied early in the year before the symptoms of drought stress or water repellent soils appear. If applications are delayed until the symptoms become apparent, it may take a more intensive programme to achieve the required results.

Wetting agents are unquestionably a major tool in the successful management of areas of fine turf. Not only do they enhance water availability in soils that for whatever reasons are unable to offer adequate moisture, but as a "side effect" of their application they tend to reduce the formation of dew on the sward and keep the turf surface drier, hence less susceptible to disease development. Enhanced root development has also been observed in soils treated with wetting agents and this may contribute to the turf's ability to tolerate and recover from heavy traffic.

The benefits of using wetting agents on fine turf far outweigh the potential problems that could occur through either incorrect application or application on stressed turf. Wetting agents will continue to be an important tool in the greenkeepers' fight to provide the quality of turf that both they and the club members require.

**TALKING HEADS**

**Benefits of making the water wetter**

by Kate York of the STRI

Sufficient levels of water availability to the roots of turf grasses are imperative for their healthy growth and development. If the plant roots are either starved of water or forced to tolerate conditions of waterlogged soil, the turf will rapidly show signs of stress, increased susceptibility to disease and in severe cases, even death. The specific water requirements of any given turf area depends on the grass species present in the sward, environmental conditions and the use of the turf area. Effective irrigation systems and correct drainage of the turf areas are required in conjunction with the experience of the greenkeeper to determine the amount of water to be applied and when.

However, certain situations arise in which, irrespective of the amount of water applied to a given area, sufficient water is not made available to the plant roots. Examples of these are high spots and slopes which will generally dry out more rapidly than surrounding areas, compacted soils, turf supporting a deep thatch and areas affected by water-repellent soils. In each case, applications of water alone may not provide adequate levels of available moisture in the areas where it is most needed. To overcome this, products can be applied which effectively make the water wetter than normal. These wetting agents have been used for many years to improve water penetration in areas from which water would normally shed. Advances have been made regarding the type of molecule used in these wetting agents to ensure that they pose no adverse effect on either the soil structure or the turf itself.

The market now supports a range of wetting agents that have been specifically developed for use on areas of fine turf. This is a dramatic advance from early attempts to increase soil wetness in problematic areas through application of soap and detergent solutions. Both of these products act to reduce the surface tension of water thereby increasing its ability to wet the soil when applied. However, these chemicals were not designed for this purpose and problems such as scouring and adverse effects on the soil structure occurred.

So-called non-ionic wetting agents are arguably the best products to use if wetting agents are to be applied to a given area. Because the overall charge on the molecule is neutral, they persist in the soil to varying degrees and are the least phytotoxic of the wetting agents to the sward. The surface tension that exists on the surface of a water droplet is the result of forces between the individual water molecules within that drop. Each molecule pulls towards the surrounding molecules resulting in the spherical water drop. If the drop lands on a surface which resists wetting, the water droplet remains in a similar shape. This effect is the same as that seen by water as it beads on the paintwork of a recently polished car. If this condition occurs on turf that is difficult to wet, the water will either run off the area or be lost through evaporation before it is able to penetrate the soil to the rootzone. Wetting agents reduce the attractive forces between individual water droplets and allow the water to spread across areas of turf which normally show a natural water repellence. Lowering water tension physically changes the way in which it moves in the soil and allows more rapid water movement and more uniform wetting.

Different wetting agents will vary in their effectiveness to wet soils, either in their ease or duration of efficacy. Most of the wetting agent products available for use on amenity turf are composed of varying percentages of esters, alcohols and/or ethers. It is essential to adhere to their specific rate of application and dilution, so as to achieve maximum effect and longevity in the soil and avoid phytotoxicity which can result from incorrect application. Areas of turf which show annual effects of either water-repellent soil or general drought stress, should receive the initial wetting agent application prior to onset of the symptoms, at the start of the growing season. In severely affected areas, much can be gained from regular wetting agent applications through the April to October period, spraying the product at four to six week intervals. This can be carried out in combination with aeration to aid turf penetration.

The non-ionic wetting agents are water soluble and are therefore applied to the turf through a sprayer or watered on in solution. They are available in three main forms: as a granule, a liquid and a concentrated block which can be placed on-line in a hose for hand-watering certain areas. The type of product used depends on personal preference and how any one specific course reacts following its application. The cost of wetting agents is something that should be considered before choosing a specific product. Some products may appear cheaper than others per given volume of concentrate, but these may not contain the same amount of active ingredient nor subsequently provide the same degree of efficacy as each other.

Wetting agents should be applied early in the year before the symptoms of drought stress or water repellent soils appear. If applications are delayed until the symptoms become apparent, it may take a more intensive programme to achieve the required results.

Wetting agents are unquestionably a major tool in the successful management of areas of fine turf. Not only do they enhance water availability in soils that for whatever reasons are unable to offer adequate moisture, but as a "side effect" of their application they tend to reduce the formation of dew on the sward and keep the turf surface drier, hence less susceptible to disease development. Enhanced root development has also been observed in soils treated with wetting agents and this may contribute to the turf's ability to tolerate and recover from heavy traffic.

The benefits of using wetting agents on fine turf far outweigh the potential problems that could occur through either incorrect application or application on stressed turf. Wetting agents will continue to be an important tool in the greenkeepers' fight to provide the quality of turf that both they and the club members require.

**LE LUBRICANTS STAY ON YOUR MACHINES – NOT ON YOUR GREENS!**

**RECOGNISE THE PROBLEM?**

Poor quality greases
Pounding out! – Washing out!
Damaging your precious greens!

**THE LE SOLUTION!**

LE’s high performance Almagard greases
Don’t wash out! – Won’t pound out!
Providing complete protection to the equipment you rely upon!

FOR FURTHER INFORMATION OR TO ARRANGE AN ON SITE DEMONSTRATION

**CALL FREE LUBRICATION SOLUTIONS**

0800 716095
Empty pesticide container disposal is in safe hands

Zeneca Professional Products (formerly ICI Professional Products) in conjunction with Envirogreen Ltd, a registered waste disposal contractor, can help with your disposal problems. They will collect, record and dispose of Zeneca/ICI Professional Products labelled empty containers in full compliance with all the legal requirements, free of charge (UK mainland only). Simply phone the number shown here for further details.