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to be held at

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TUESDAY MARCH 20TH 1990 SPONSORED BY SISIS EQUIPMENT (MACCLESFIELD) LIMITED

PROGRAMME

08.30-09.15	Registration
09.15-09.25	Introduction by the Scottish Region Education Convenor,
09.10-09.25	Cecil George, Course Manager, Lenzie Golf Club.
09.25-09.45	Image of a Young Greenkeeper, Jim McKenzie, Course
	Manager, Renfrew Golf Club
09.45-10.05	Conservation of Golf Courses, Mrs Rene Charles, Nature
	Conservancy Council
10.05-10.40	Automatic Irrigation, Archie Paterson, Irrigation Engineer
10.40-11.00	Coffee
11.00-11.25	Changes in Greenkeeping in Last 20 Years, Alistair Connell Course Manager Cawdor G.C.
11.25-11.50	Turf Farming, Graeme Forbes, Stewart & Co. (Seedsmen)
	Ltd.
11.50-12.05	Questions to Morning Panel
12.05-01.30	Lunch
01.30-01.35	Afternoon Chairman, Scottish Region President, Harry Diamond, Course Manager, Ayr Belleisle Golf Club
01.35-02.05	Budgeting for Replacement of Machinery, Richard Bishop.
	Ransomes
02.05-02.35	Safe Use of Chemicals, Andrew Robinson, Sports Turf
	Services
02.35-03.05	Championship Diet for Carnoustie, John Philip, Links
	Superintendant, Carnoustie Links
03.05-03.35	The Role of Organics in Modern Greenkeeping, Eddie Con-
	naughton, Grass Technology Int.
03.35-03.50	Questions to Afternoon Panel.
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Those companies wishing to reserve the same space as they occupied at the 1990 Exhibition are reminded that existing space allocations are guaranteed for reservations received by 28 February.



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WINTER GOLF

Winter golf . . . what memories those two words can conjure up! In this tongue in cheek look at the inclement aspects of the game BILL PILE, Head Greenkeeper of Fingle Glen Golf Club gives 'good' advice to both the novice and veteran player. Now read on . . .

OR the novice golfer there are some unwritten rules and etiquettes of winter golf he or she must know

The first lesson consists of two phrases to be used at certain times depending on weather conditions. The novice will soon learn to judge the most appropriate time by following the lead of the more knowledgeable advocates.

As a guide when you arrive at the club to find that the greenkeeper has had the temerity to close the course, just because of a small local 'monsoon', the first phrase can be brought into play: 'We've played in worse than this!'' To get the maximum benefit from these words two factors must be borne in mind.

Firstly on no account must the speaker have been on the course to check the truth of the statement, and secondly, his position when making the statement. The position to adopt is one of standing inside the clubhouse, looking out of the window noting the black skies and torrential sweeping rain.

Then in a most accusing tone of voice: "We've played in worse than this." If you have judged your moment to a tee (if you'll pardon the pun) this will be echoed

by other members sitting in the bar.
The second phrase to learn is: "We shouldn't be playing in these conditions, it can't be doing the course any good!"
The astute reader will have quickly gathered that this statement is used in inclement weather conditions when the greenkeeper hasn't closed the course or

brought temporary greens into play.

Again timing and position are of the essence. You must be far enough from the clubhouse so that when you make the statement no-one, (heaven forbid!) would dream of accepting the facts and even



remotely consider walking in. Experienced winter golfers often bring the slightly changed version into play on entering the clubhouse: "We should never have played in those conditions, hadn't someone ought to close the course?

Two benefits come from this use of the phrase; firstly you have played your round and secondly the congratulations from your fellow golfers on your concern for the course.

The newcomer to winter golf will encounter on his round certain areas of the course roped off or surrounded by hoops. Now, to the inexperienced, this would, at first sight, seem to mean areas to avoid. However this is not, of course, the case. These obstacles are to test the ingenuity of the golfer as to how to enter this area without tripping over the hoops or catching other parts of the anatomy in the ropes

The winter golfing beginner will have to look carefully for the next areas that will add to the enjoyment of the round. But the rewards are there for those who can spot the wet and muddy patches to walk through, carefully avoiding the dry clean grass to either side. The pleasure can be heightened if you declare loudly as you are in the middle of the mud: "When do you think the greenkeeper will cure these areas?

Perhaps it may be pertinent at this stage to touch on the standards of dress for the winter golfer. Although many styles are in vogue it would seem the really dedicated model themselves on the clothing worn by a bedraggled, retreating, defeated army, whose tailors reside in Third World countries.

However back to behaviour patterns on the course. The next example can, fortunately, be used in winter and summer, although a slightly different technique is required in the summer when the ground is drier.

The move can be brought into play when you find your ball halfway up a grass bank, the steeper the better. As a novice you may at first think to leave your trolley at the foot of the bank. Oh dear, you still have a lot to learn!

The expert will recall the trick here is to pull your trolley up the bank with you, release it, grab a club, play your shot, swing round and grab your trolley before it falls over or runs back down the bank. This is a real favourite with masochists, who mistime the ritual on purpose and positively thrill to the sight of their trolley tipping over, sending clubs, balls and tees cascading in all directions down the

A point here also worth remembering is: Keep your trolley with you at all times, never let it leave your side. Again watch the more experienced and marvel at some of the places they manage to take their trusty trolley with them.

On a more general note, as in the summer, refrain from replacing divots, mending pitchmarks (and you can make some real beauties in the winter when the greens are softer) or raking bunkers, you certainly don't want to be seen to be the odd one out.

Hopefully the novice winter golfer will start to realise from this outline of the 'niceties' of winter golf some of the pleasures that can be gained from playing in the bitterly cold with the wind driving the rain straight at him, and indeed conjure up some new techniques that may end up in the winter golf 'hall of



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LETTERS TO THE EDITOR

GREEN COMMITTEES-AND THE PGA PLEASE NOTE

Dear Sir,

READ with particular interest Willie Blair's report from East Scotland, and entirely agree with his comments, as do, I suspect 90% at least of my colleagues! He has highlighted a real bone of contention regarding greens

When will these people realize that when they are dealing with a Head Greenkeeper, he is an expert in his profession, or presumably he wouldn't be doing the job. I believe the real problem is probably a question of approach and diplomacy. Instead of trying to tell the head greenkeeper how to do his job, committee members should adopt a much more conciliatory or enquiring attitude, and in this way would avoid annoying a hand-working and conscientious head greenkeeper

As a matter of interest, I consider myself fortunate in not having problems of this nature; most French people I meet seem to have the impression that all British people, regardless of profession, are experts when it comes to growing grass.

However, to put matters in perspective, and looking at the other side of the coin so to speak, we as head greenkeepers should also understand that greens committees, like ourselves, really have only the well-being and reputation of the golf club at heart. After all, they are elected by members to represent them, and in some instances these members pay a great deal of money in subscriptions for the right to play golf.

In closing, I must admit that observa-tions by Neil Thomas on the lack of appreciation shown to the marvellous work of head greenkeepers Derek Ganning and his staff at the Belfry at the conclusion of the Ryder Cup, are only too evident. In my view, this is a serious ommission in most tournaments, and I sincerely hope that golf professionals will also take note, and when they have the ability and good fortune to win, will kindly thank the hard working greens staff who have made it all possible.

> lain Dobson, Course Manager, Barbaroux Golf Club, France.

EING a member for just about a year, I have thoroughly enjoyed your monthly magazine. It has really put me forward in my job as an assistant greenkeeper. But the Course I work on us-

ed to be old farmland as probably most courses are, and we've had nothing but bother

with moles.

We do of course hire someone in to kill them but of course he tends to miss a few they don't really do a thorough job I was wondering if there are any courses held locally to be trained to use the chemical's to kill moles, as chemicals are really quite effective. I'm not really all that keen on killing these godsent creature's, for they do a great job - but in the wrong places.

So trapping would also be an idea, where could I obtain

moletraps?

Yours faithfully, Robert Vance 35 Whin Street. Clydebank, Dumbartonshire. Scotland G31 3JD

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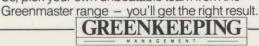


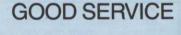
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LETTERS TO THE EDITOR

A FTER reading the December issue of Greenkeeping Management. The article on Chris Kennedy (page 43) in this article he stated that Scotland's education system is a decade ahead of that in England.

This, in my opinion, is a very biased comment, to say the least. If the case is so, this would reflect on a higher standard of greenkeeping north of the border, putting Scottish golf courses in a league of their

This is certainly not the case. England, not to mention Ireland and Wales, have first class greenkeeping standards, with golf courses on a par with that of Scotland. I would agree that in the past our colleges did not meet the standard achieved in Scotland, but in the last 4-5 years greenkeeping education in England has been developed to a high standard, proven by the strong representation of England colleges in the new Toro Award scheme.

I for one am very proud of the achievements made by English colleges in their forward thinking on greenkeeping training. This, coupled by in-house training given by our association, will give all BIGGA members the same opportunities and progress forward together into the 1990s.

Mr I. Harrison, 67 Kilmarnock Road, Darlington, Co. Durham.

Dear Sir.

BEING involved with golf course construction and maintenance in Germany, I'm concerned about the present education for German greenkeepers and associated personal.

The only system of which I'm aware uses multiple choice question papers obtainable by post at various stages throughout the years and covering topics such as soils, water, machinery, fertiliser etc.

Harmless enough it may seem, but unfortunately these questions are often ridiculous in their technicality, vague in their interpretation, and are sometimes withdrawn.

Twice a year, candidates are called together for three week periods for intensive discussion on the topics covered in the questionnaire and some practical work. This then produces the label "Greenkeeper" and unfortunately too much stress is put upon the importance of labels in Germany.

I've already met a few who have been dissuaded from the profession because it appears impossibly technical.

And so'I would be most interested in any college offering a similar possible education package for overseas greenkeepers. This might include the use of videos, books and papers culminating in an annual two or three week congregation at a financially feasable, strategic location.

A German translation would not be a problem, and with the doors open in '92, it's only fitting (and possibly necessary) that BIGGA lead the way for an educated Europe.

> David Abercrombie, Rosenstrasse 22, 8904 Haberskirch, West Germany

O whom it may concern.
I am writing to you for some information regarding golf course construction.

I am a member of BIGGA and I am very interested in golf course construction, and I cannot seem to get the address for the British Assoc. of Golf Course Constructors, and I was wondering if you have it at your disposable.

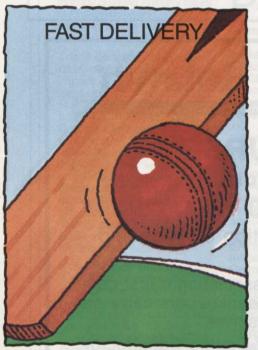
If you do would you be so kind to send it to me.

I would be most grateful if you would do this for me.

I hope I am not causing to much inconvenience to you but it is much appreciated.

Gordon I. McKie 7 Scotsburn Road, Tain, Ross-shire IV19 1PR

• Editor's note: "This request indicates that the BAGCC needs to promote themselves more... we were pleased to send details of the Association to Gordon.







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David Golding, BIGGA, Aldwark Manor, Alne, York, North Yorkshire YO6 2NF. Tel. 03473 581/2. Fax. 03473 8864

IN THE PICTURE

LINDUM "ON COURSE FOR THE 1990's"

INDUM Seeded Turf announce a "double first".

Now recognised as the "Number 1" producer of quality seeded turf for the golf and leisure/landscaping sector.

Lindum Sales and Marketing Manager, Geoff Hodson, commented "We already supply quality seeded turf, individually designed seed prescriptions, fertiliser formulations based on a combination of Mineral and Organic materials and a complete preparation and after care service.

We are now able to announce a breakthrough in seed treatment - Polymer Coated Seed. The coating is used to carry treatments on seed. Until this breakthrough seed has been treated by various methods but there have been three main disadvantages.

- Uneveness of treatment thereby creating in many cases in Phytotoxic effect on the seed resulting in retarded germination and uneven establishment.
- 2. Inconsistency in drilling rates due to residue material impeding flow. Residue in bags due to constant handling. Sometimes up to 40% loss of treatment to seed. Polymer Coating eliminates all of these problems, in fact it enhances establishment, increases accuracy of flow when drilling and there is no residue. For example, using Apron "T" treatment with the Polymer Coating provides protection for the young seed for 6/8 weeks against fungal diseases, "fusearium", etc.

We already supply vigour proven seed attaining high germination levels and of a high purity standard. Add the new concept of Polymer Coating and you have available the most advanced seed in both quality and performance for the 90's.

Another first, Lindum have been awarded the exclusive contract to supply their quality seeded turf and to act as consultants for the next and final Garden Festival at Ebbw Vale, Wales, 1992.

We are looking forward to the 1990's with confidence and to supporting and serving the golf and leisure/landscaping sector.



PICTURED in Munster about to leave the head-quarters of Ransomes' German company following a tour of the offices and workshop, (left) the British Ambassador to West Germany, Sir Christopher Mallaby, with General Manager, Gunther Zeiner.

Commenting on the visit Gunther Zeiner said: "The Ambassador was clearly impressed by what he saw and it was a particular honour and pleasure for us to welcome him to Munster as this year Ransomes Deutschland GmbH celebrates its 25th anniversary."

Currently the largest overseas market for Ipswichmade grass machinery, the German company, which has four depots and fifty employees, is responsible for the distribution and servicing in the Federal Republic.

TURFEX PROVIDES AN ANSWER TO DRY PATCH

NTRODUCED last year as a major break-through in turf wetting, the concentrated wetting agent Turfex provides a cost-effective solution to the

BIGGA'S AGM See page 5 problem of dry patch, particularly on golf courses and bowling greens, by enabling water to get to the roots of the turf and thus restoring healthy growth.

In laboratory tests conducted in 1988 by the Sports Turf Research Institute, Turfex increased the rate of infiltration into dry patch-affected turf by up to five times that of other wetting agents.

When the STRI went on to conduct a field trial in July last year on a dry patch-affected area, water with Turfex penetrated to a depth of more than 7cm, which was three times the depth penetrated by water alone. In the same trial on compacted soil, water with Turfex penetrated to a depth of nearly 9cm.

Turfex is readily absorbed onto soil particles and in this way provides a lasting action and build-up of effectiveness. It is mixed in cold water at the rate of ½ litre in 100 litres of water - an amount sufficient for 500 square metres of turf on the average golf green - and dissolves easily with minimal foaming, which quickly disappears.

Turfex has no adverse effects on turf. Even at double strength no phytotoxicity problems have been reported. And it can be applied by any conventional sprayer.

Its manufacturers, the Horiticultural Division of Ser-

vice Chemicals Limited of Daventry, have just announced that there will be no price increase for 1990, which means that Turfex will continue to be sold at a cost of only £1.25 for a quantity sufficient to treat 100 square metres.

An all-British product, Turfex is available from specialist turfcare wholesale distributors. Selling agent is John McLauchlan Horticulture of 50a, Market Place, Thirsk, North Yorkshire YO7 1LH.

HUXLEYS TO RATIONALISE FOLLOWING CUSHMAN TAKE-OVER

ROM April 1, Huxley Grass Machinery will no longer be responsible for the administration of dealer sales of Cushman products throughout the United Kingdom and Ireland. The company's direct sales of Cushman products from its Egham and Alresford branches will also cease.

These moves follow Ransomes' purchase of Cushman and the decision to distribute Cushman equipment through the Ransomes existing dealer

As a result, the directors of Huxley Grass Machinery have reluctantly accepted it will no longer be viable to continue trading at its Egham branch. Therefore, as of May 1 all activities will be based at the company's manufacturing centre at The Dean, New Alresford, Hampshire.

Huxleys' directors stress the decision was reached after a careful appraisal of the situation. The company recognises the loyal and dedicated contribution made over the years by the Egham staff, and has taken every care to ensure the continued well-being of those members who cannot be retained.

Despite the forthcoming changes, the future of Huxley Grass Machinery within the professional turf and grounds care industry is very much assured. Huxleys will maintain and extend the design, development and manufacture of its own range of commercial grass maintenance machinery at Alresford. This range includes Huxleys implements for the Cushman Turf Truckster, and these fine attachments will continue to be supplied to Cushman dealers worldwide.

IN THE PICTURE

ANOTHER FIRST FOR CHARTERHOUSE

HERE are three keen new golfers in England thanks to Charterhouse Turf Machinery.

Charterhouse held a prize draw at this year's Institute of Groundsmanship Exhibition at Windsor Racecourse, the entries coming from customers requesting demonstrations of equipment illustrated in the company's comprehensive new brochure.

The prizewinners were drawn on each of the three days of the show, and the top prizes - a set of golf clubs - were won by a trio representing a good mixture from the

Mr Paul Davies, of Mordon Nurseries, Swindon, is an area supervisor with Thamesdown Contractors, a local authority contractor; Mr T.H. Heath of Staunton Harold, Leicestershire, is a ground maintenance contractor; and Mr P. Bloomfield of Ipswich, is a groundsman for Ipswich School.

"None of the winners were golfers," said Philip Threadgold, Sales Director of Charterhouse Turf Machinery, who presented the prizes. "And Mr Heath was left-handed, so we had to find a special set of clubs. But they are all taking up the game as a result of the draw."

NEIL AT CENTRAL SPARES

A S part of their continuing expansion programme, Central Spares have appointed an additional representative to their sales team.

Two existing sales areas have been reduced in size, and Neil McRitchie, who is based in Dorking, Surrey, will manage a new territory covering six counties in the South and South East of England.

Neil, aged 27, joins Central from the agricultural trade and lists his interest as sport, particularly badminton, amateur dramatics and Morris dancing. This latest appointment brings the number of sales representatives up to five, and the consequent re-organisation of sales areas means that South Wales will get representation for the first time, and trade customers in certain other areas can expect to see a representative more regularly.



Paul Davis

RICHARD AITKENS NOW SERVING THE NORTH EAST

AITKEN'S Superturf Ltd have expanded their business south of the Scottish border, with new premises at Tadcaster, North Yorkshire.

Norman Shedden and Peter Fell, both ex-Superturf reps, with extensive experience of the Amenity Industry, are the technical representatives who will be serving the area from the Borders to just south of Doncaster.

We would like to congratulate the company and wish them every success with their new venture.

ALLETT ROTARY MOWERS

LLETT Mowers Ltd have traditionally been associated with high class cylinder mowers which are in use at the majority of first class cricket clubs and the leading sports stadiums of Europe. However the business has increased substantially in the last few years and Allett's now offer three rotary mowers. The largest is the Parkstar. This is a tractor drawn mower which has two full width rollers to give a pleasing striped effect and is ideal for relatively flat fairways. The Parkstar has a very high work rate and is economical to use and maintain.

Also of some interest to golf

clubs is the Vergestar. This machine is a pedestrian operated rotary mower with a 30" width of cut, and is also available with an interchangeable cylinder cutting attachment. Finally for those areas which require a small rotary there is the Allett AR18. As the name suggests, this is an 18" mower which has grass collecting facilities and is of a more robust construction than the majority of machines of this type.

ALLEN POWER EQUIPMENT APPOINT PARKERS AS LONDON DISTRIBUTORS

PARKER & Sons (Turf Management) Ltd of Worcester Park, Surrey, have been appointed the London Distributors of Allen Power Equipment of Didcot.

"We feel confident that this association will be of great benefit to both companies," said Mr Peter Jefferis, Managing Director of Allen, when he attended a recent teach-in at Worcester Park of the machines Parkers will be handling.

These were introduced and demonstrated to Parkers Sales Team by Mr Lance Bassett, Allen Sales and Marketing Managing, and Mr David Hyde, Allen Area Manager.

The Allen machines concerned are the National 68" and 84" Triple Mowers; Brushcutters including the Reciprocator, a revolutionary multi-purpose trimmer/brushcutter, edger, branch clipper and pruner which is exclusive to Allen and incorporates a new safety cutter; and Professional Hover Mowers which have the unique Allen 'Safeway' Mowing System, the first really safe blade.

"We are delighted at our appointment," said Mr Peter Simpson, a Director of Parkers, "it further strengthens our position as the leading Turf Care Specialist in the South East of England."

THE DANARM ROTARY MOWER RANGE

HE Danarm Range starts with the ultra low priced (£123+VAT) 40cc 13" King 35K model (previously sold by Danarm under the Speedy name), includes three Briggs and Stratton engined

Models (15", 16" and 18") and is completed by two 21" High Quality Professional Mowers powered by 4.5 HP. O.H.V. Kawasaki engines and manufactured for Danarm in Japan.

The Japanese machines marketed by Danarm under the Danarm Asuka name, have been so well received that Danarm will be adding an additional three of these 'top of the range' models including 19" and Electric start versions for the 1990 season.



David Siddon

ICI APPOINT TWO NEW DISTRIBUTORS

O strengthen their market leading position in the U.K. sports, amenity and landscape pesticide and fertiliser market ICI Professional Products have completed negotiations with two major companies to join their national network of distributors.

The appointment of T. Parker & Sons (Turf Management) Ltd of Worcester Park, Surrey provides a major platform for increased representation and sales in the South East.

An equally important arrangement takes place with the appointment of Sports Turf Services, Newbridge, Nr. Edinburgh who will cover sales in Scotland and Northern England.

David Siddon, Sales Manager for ICI Professional Products commented "The appointment of STS to our national network of distributors is part mof our strategy of ensuring we have the best companies in the market distributing ICI Products to the end-customer."

IN THE PICTURE

ROYAL VISITOR **DROPS IN**

HE highlight of Ransomes 200th anniversary celebrations was the arrival of a helicopter of the Queen's Flight at their Ipswich grass machinery factory with HRH The Princess Royal on board Following luncheon with local dignitaries and directors she toured the works, where well over 50 per cent of the production is exported.

While being shown the latest in sophisticated equipment and techniques used in the manufacture of the company's grass machinery, The Princess Royal made a point of talking with as many people as she could, and over-ran the time alloted to her factory tour by fif-

teen minutes.

Before departing, Her Royal Highness unveiled an engraved plaque of Cumberland Slate, mounted on a wall in the office foyer, commemorating her visit, and was presented with a posy by Clare Jordan, one of the company's secretaries.

"Having the privilege and pleasure of welcoming HRH The Princess Royal to Ransomes in this the year of our 200th anniversary was a great honour for us", said Group Executive, Dodsworth. "The trouble she took to talk with so many of our employees contributed greatly to making it such a memorable occasion.

YORKSHIRE MOWERS' LEEDS BRANCH FULLY OPEN FOR BUSINESS

OVEMBER 1989 saw, for the first time, the doors of Yorkshire Mowers Ltd, Leeds branch wide open to professional customers.

The "open house" for ex-

isting and prospective users provided the visitors with a 'behind-the-scene" tour of the specialist services housed within the branch.

The event attracted 250 customers from North and West Yorkshire. Interest generated at the day produc-ed a good number of requests for demonstrations of individual items of equipment on customers own grounds in the month following the event.



Pictured during her tour of Ransomes grass machinery factory in Ipswich, HRH The Princess Royal with (right) Works Manager, Murdoch Matthew, talking to (left) Production Control Clerk, Sharon Page, while listening intently to what was being said are Production Control Section Leaders, Philip Turner and Roy Burton, and Machine Tool operator Mick Bloomfield.

Yorkshire Mowers, Hull, Sheffield and now Leeds are a company devoted exclusively to the sale and service of grass and turf equipment for the professional and domestic owner's.

These include golf courses, local authorities, sports grounds and stadiums, contractors and public and private estates.

The company, which now proudly boasts of being the largest business of its kind in the county are concessionaires



Paul Whiting

in the Yorkshire region for Hayter/Beaver, Modust. Kubota, Toro and Gravely Professional Products.

MONRO HORTICULTURE STRUCTURE COMMERCIAL ORGANISATION FOR THE 1990's

ITH the new company headquarters fully operational at Tuxford, Nottinghamshire, Monro Horticulture has now centralised purchasing

marketing functions.
In outlining the strategy behind re-organisation, Andrew Witcomb, Managing Director said: "We are structuring the company to enable us to better meet the growers' needs in the 1990's. In particular, growers will be looking for increased technical support, and by having specialist managers covering key areas of the growers business, we can provide the products and services they require in a professional and efficient manner.

Commercial managers have been appointed for specific product groups, and Business and Sales Development Managers have been appointed for Capital Equipment. All managers have many years experience in the horticultural industry, and will be well known to growers throughout the United Kingdom.

Paul Whiting takes on the role of Business Development

Manager for Capital Equipment, and working with Paul as Sales Development Manager is Roger Poole.

Mike Manly is Commercial manager for Growing Media; Commercial Manager for Horticultural Plastics is Mike Evans, and an appointment will be made soon to cover the Crop Nutrition and Protection sectors



Mike Manly

All managers can be contacted through the company headquarters of Monro Horticulture Ltd., Lodge Lane, Tuxford, Newark, Nottinghamshire NG22 0NB. Telephone: (0777) 871727. Fax: (0777) 871799.



Mike Evans

SPRAYERS

MINI-TRAILER (MT 180) FROM COOPER PEGLER

OOPER Pegler recently unveiled their new Mini-Trailer (MT 180) aimed very much at the amenity market. The basic unit features a 180 litre plastic moulded tank mounted on a solid box section chassis and a power unit comprising a two-stroke petrol engine which drives a twindiaphragm pump.

Fluid control is provided by

Fluid control is provided by a compact control valve cluster on the front of the tank which provides on/off positions for pump flow, pressure regulation for spraying via a standard 0-7 bar pressure gauge and directional flow of fluid to left hand, right hand or both spray booms or hosereel as ap-

propriate.

The add on options means that the new Mini-Trailer has versatility in the way that it is powered (petrol engine or electric motor), moved (compact tractor, ATV, cultivator, ride-on-mower, pick up, land rover or pedestrian) and used (spray booms with nozzles or high pressure hose with hand lance and trigger).

Twin booms each fitted with four flat fan nozzle tips and



non-drip diaphragm check valves (DCV's) provide a range of application rates with a total swathe width of 4m.

The booms are adjustable for height, can be positioned to spray horizontally or vertically and are fitted with a break back device.

By replacing the standard tow bar with handles the new Mini-Trailer can be used with a wheel barrow arrangement. The simple hitch plate attached to the tow bar can be replaced by a pedestrian wheel or alternatively a ball hitch to facilitate towing by land rover, jeep or pick up.



LOGIC ON-BOARD

THE Logic OBS125 Sprayer combines the versatility of an A.T.V. with a compact, professional spraying unit.

Lightweight materials have been used to maximise the carrying capacity of whatever vehicle is used, without sacrificing strength and performance.

ing strength and performance.
The 'One Piece' 120 It tank unit is secured in seconds on its unique cushion base by two large hand clamps.

The specially moulded tank incorporates a sump and baffle flanges to assist agitation and minimise surging.

A 12 volt electric diaphragm pump (powered from the A.T.V. or similar vehicles own battery) deliveres up to 9 lt per minute at up to 40 lbs psi (3 bar)

Rooms vary in width from 0.5 to 3.5 metres and feature break back clutches to prevent damage, easily adjusted height control, offset adjustment on booms up to 2m for hedgerows etc, stainless steel outer spraylines on booms over 2m with folding facility for transportation and snap fit antidrip nozzles.

Comprehensive sprayer controls are positioned for easy operation and maintenance, including tank isolation valve and easily cleaned in-line filtration.

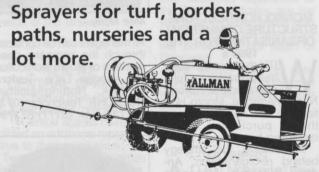
Optional equipment which quick attaches, includes a handlance with 2m of supply hose and a 15m Hose Reel with quick release couplings to accept the handlance.



AMENITY SPRAYERS

HERE'S a sector of the spraying market which falls firmly between the tractor mounted, more agriculturally based models and those which are manually

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