would certainly have been equally
designing and constructing golf
landscape fame had been
large trees.

digging lakes and transplanting
ing landscape by moving hills,
where they succeed in re-
shaping the golf-
many great 18th century landsca-
tion tyred tractors take minutes to
move large trees, but now
might be seen
of the surrounding countryside.

The 18th century landscapers
used teams of draught horses to
move large trees, but now
mechanical tree-spades on flota-
tion tyred tractors take minutes to
transplant 20 year old trees, and
if desired, even larger trees, up to
1.5m trunk girth and 15m height,
can be transplanted using 200 ton
heroes and special tackle.

The proprietors and architects
of new golf courses are likely to
find over-mature trees on their
chosen sites, often protected by
local tree preservation orders
(TPO's). Old established trees,
especially oak and beech, do not
tolerate changes in the water
table, caused usually by modified
drainage and land form. The skill
of the architect will determine
whether these existing mature
trees can be retained in the
design.

Increasingly, Planning Authori-
ties expect to be offered outline
applications for new courses that
include extensive tree planting,
either as shelter belts to screen
adjoining properties, or simply to
increase tree cover overall. Plan-
ing applications that incorporate
genetic tree planting are more
likely to succeed than those that
do not. Mostly this planting is
done with three year old trees
(whips) spaced 1.5 to 2.0m apart,
and protected from rabbits and
deer. But for greater effect in
important positions it may be
appropriate to plant larger trees.

On a number of the most presti-
gious new parkland courses, the
developers and architects have
choosen to plant large trees exten-
sively. This has achieved the
desired landscaping result imme-
diately, instead of waiting five to
ten years for young trees to grow.

Two important new courses that
open this summer have recently completed large tree
planting schemes aimed at quite
varied objectives.

Golf Fund plc, led by Colin
Snapc, is developing The War-
wickshire, a 45 hole complex at
Leek Wootton near Warwick, now
due to open fully in 1993. Karl
Litten has designed the two 18
hole courses and a nine hole par
three course, constructed by Total
Golf Ltd in a truly beautiful park-
land setting of mature stands of
beech and oak, flanked by the Vic-
torian arboretum of Wootton
Court.

The objectives of the new plant-
ing, using large trees in this
already mature landscape, as
explained by the landscape archi-
tect Graham Stevenson, are three-
fold. Most of the large tree
planting relates directly to the 45
trees and greens, thereby giving
visual structure to the three
courses.

These trees are planted in
groups of the same species or
maybe two complementary
species such as pine and birch. In
sympathy with the species of
mature parkland trees, distinct
areas of new planting along the
fairways are predominantly of
oak, beech, chestnut, pine and
willow. The adjoining arboretum
is being extended on to the course
with planting of many similar
exotic species from North America
and Asia. The overall effect of
planting these five hundred large
trees at The Warwickshire is to
link the course with its surround-
ing landscape, yet at the same
time give form and direction to
the course, and also to accentuate
the undulating land form.

The Oxfordshire at Thame is an
eighteen hole championship
course which opened in June
1993, and likely, it is said, to be
extended with a second eighteen
holes.

Nitto Kogyo Group, which owns
and manages 36 courses world-
wide, commissioned Rees Jones
to design the new championship
course. Nitto Kogyo chose the
rolling countryside site, endowed
with mature oak and ash, which
have been resourcefully incorpo-
rated into the undulating design.
Four new feature lakes provide
water and assist with drainage for
the course. Mr Edmond de Roth-
schild continues his long associa-
tion with Mr Hiroshi Matsura,
chairman of Nitto Kogyo Group,
to achieve a truly English land-
scape setting for the designs of
Rees Jones. The original
hedgerow elms vanished in the
1920s, but they have been
replaced by 400 semi-mature
indigenous oak, maple, lime and
ash from Exbury Gardens,
transplanted mainly around the
perimeter of the course. Once
again, as at The Warwickshire,
the tree planting achieves a con-
tinuation of the existing coun-
tryside, but in this instance it is
a landscape of hedgerow trees, as
it was before elm disease wrought
havoc in Oxfordshire and all over
England.

Replanting the hedgerow trees
at The Oxfordshire has achieved
other considerable benefits. Six of
the eighteen fairways lie adjacent
to the new hedgerow plantings,
which provide shelter from the
north and east wind. On the
north-west a dense planting of
these large trees screen the
nearby A 329 Thame-Oxford
road. Underplanting with indige-
nous shrubs and hedgerow plants
produces a wild life corridor link-
ing with the original hedgerows
on neighbouring properties.

The techniques for planting at
The Warwickshire and The
Oxfordshire differ considerably.
At The Warwickshire the red
sandy loam and iron-stone inclu-
sions can be made to drain suffi-
ciently providing the tree
positions are not in hollows or
gullies. By contrast the blue
Oxford clay underlying The
Oxfordshire course pro-

GRENKEEPER INTERNATIONAL August 1993 21
21 vides no natural drainage, so that every tree pit is connected by land drain to the course drainage system. On both courses the large trees were stored on site during the winter and spring of 1991/1992 while the courses were too newly formed to allow planting vehicles on to them. In the spring and early summer of 1992 the planting of The Oxfordshire went ahead on schedule. These large trees of 8 to 10m height are supported against the wind by the Japanese method, using a tripod of long stakes, which also protects the trees from accidental damage by gang-mowers and machinery. At The Warwickshire the trees are supported either by overhead wire guys or by stakes, as both courses are exposed to extremes of wind.

At The Warwickshire the planting has been spread over the summer of 1992, taking trees in full leaf out of storage on site. On the first eighteen holes the large trees were moved across newly planted grass by flotation tyred vehicles. Reinstatement was kept to an absolute minimum by working only during dry weather.

All these trees on the two courses have been planted, maintained and insured by the contractors Civic Tree Care Ltd of Tring, who also maintain the areas around the planting. Civic Trees expect to replace, free of charge, about 5% of trees, and the success rate at The Oxfordshire after a full growing season is 94%, despite transplanting most of the trees in full leaf.

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On established golf courses the planting of young trees as copses, woods and shelter belts creates a 'tree bank' that in five, ten or twenty years can yield, by the normal process of thinning, substantial numbers of surplus trees to replace losses on other parts of the course. Young trees, well planted, tended and protected for the first few years, can double in value every two to three years, and may remain available in these 'tree banks' for up to twenty years, before they become too large to be transplanted economically. The cost of transplanting by tractor tree-spade can be as little as one fifth of importing an equivalent tree from a nursery. Already many established courses have these 'tree banks' of semi-mature trees that have grown up naturally from self-seeded saplings. In order to realise the potential of these surplus, yet valuable, trees it may be necessary to cut out the less good specimens to make space for the best to flourish and develop a full crown for several years prior to transplanting them on to the course.

Trees in the landscape are more valuable than ever before. Everyone involved in the countryside is aware that disease, storms, squirrel and deer can ravage the most cherished trees. An annual or bi-annual programme of replanting with young trees will ensure that the country's tree heritage is carried on into the next century.

-- The author, Chris Newman, started designing large tree moving machines in 1960 and formed Civic Trees in 1963, a company that grows, supplies and transplants semi-mature trees throughout the British Isles. The screening of the Berlin Wall is among the multitude of prestigious projects that his company have achieved over 30 years in this area of landscaping expertise.

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IT'S A MUST FOR ANY GOLF COURSE!
Make a date for the IoG Show in Peterborough, at the East of England showground between September 7-9. It's a historic occasion – the 49th and final event to be called the IoG Show, as next year there's a change of name and a change of venue. On Pages 31-35, we preview some of the companies and some of the products you can expect to see.

The annual Institute of Groundsmanship Trade Exhibition rounds off the many valuable golf shows held throughout the year by presenting, at one venue, the methods and technology for other hard-used sports surfaces such as rugby pitches and grass tennis courts, which can be brought to bear on golf course management.

This year's 48th international exhibition is well into the usual hectic final booking period with exhibitors vying with each other to publicise new launches at the show. Even though the rate of golf course development slowed down in the UK this year, a record number of courses still opened for play despite the recession and the rising demand for play on existing courses means that greenkeepers and committees need more than ever to keep themselves informed about the latest methods, products and legislation affecting the running of their clubs.

A new-look IoG '93 provides for computerised visitor registration, carefully targeted invitations to internationally important sectors of the industry – including golf greenkeepers – improved catering and revised opening hours, from 9am to 4pm every day.

The last exhibition to be held at Peterborough (next year it will be renamed and staged at Windsor Racecourse near London) IoG '93 bookings stood at 217 exhibitors by the middle of July and were rising rapidly. Nearly ten per cent have never attended the IoG exhibition before and several companies, such as Atterton & Ellis and Garfitts, have increased their original stand sizes.

On arrival, visitors could begin by meeting colleagues at the BIGGA tent (C77) and then visit the Education Pavilion to chat with the Health and Safety Executive (B33) and personnel from the Department of Environment's Toxic Substances Division (B16). The National Turfgrass Council (B7) and the Sports Turf Research Institute (PC53, 24-25) will also be there to offer advice, not forgetting the IoG's own consultancy service (Members Pavilion, Row F), and a further 24 education, training and professional organisations.

Over 52 product categories from fertilisers and feeds to tyres and vehicles are on display and with so many new exhibitors and products, members can be confident of an enjoyable and worthwhile day out at Peterborough. There were 31 companies showing golf course furniture equipment last year. Some that will be in attendance this year are Barlow Tyrie (M7-9), Better Methods Europe (PCS2 1-2), BLEC (Demo 4 58-68), Gannon (E61-62), Golf Mats UK (PCS2 1-2) Lappsett (D56-61) and Rigby Taylor (L39-41/51-53). Top dressing and fertiliser suppliers to visit include ICI (K42-45), Farmura (L13-14) and Gem Professional (PCS1 7-8). The full range of irrigation equipment is represented by firms like Attack Engineering (H62-63), ILS Irrigation (G40), Prime Waterman (D37-37A) and Watermation (M30-31) up to the latest computerised systems.

Plentiful free parking, improved facilities and a regular shuttle service between Peterborough BR Station and the showground should make your visit a pleasant one and the new format official catalogue is still probably the best industry year-book for products and services to be had. Further information can be obtained from Anne Haddon, Exhibition Administrator, IoG, 19-23 Church Street, The Agora, Wolverton, Milton Keynes, Bucks MK12 SLG, telephone 0908 311856.
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Kubota (UK) Ltd, the leading compact tractor specialists, (stand nos C69/79 and 72/75 and demo site stand 5, areas 14/15) are displaying a number of new machines at IoG '93. The line-up includes a new tractor and new mowers for the professional operator.

From their extensive machinery range Kubota are showing the complete B50 series of compact tractors, which comprises the 17hp B1550, the 20hp B2150 and the 24hp B2150.

City Irrigation (stands PSC1 45/46) will be exhibiting components as installed in their watering systems for all areas, notably for the automatic watering of golf greens, tees and fairways. The two principals of the company have over 60 years experience between them in designing and installing automatic irrigation for golf courses in the UK and other European countries, including the Middle and Far East. With some 300 golf courses concentrated in London and the Home Counties, the company now concentrates in this area on the provision of new installations and up-grading older systems.

Pattisson & Co Ltd” came under new management. The family owned company, established in 1897 has been bought out by Mr J. F. Hinch and his family. “Over the past year there has obviously been a lot of speculation about Pattisson & Co. It is our intention to continue to build the company on the family platform,” said the new Managing Director Mike Hinch. “There are quite a few internal changes that are needed to ensure our service and quality of our product is 100%.”

The Luton based Company supplies the majority of Golf Clubs in the UK with products such as Flag Pins, Flags, Hole Cups and an extensive range of furnishings and equipment. The product range is large enough to cater for any request from any type of sporting club including driving ranges.

Pattissons have also acquired “F. J. Walton Productions” who make membership tags to meet most specifications. Mr Hinch feels that the personalised badges add nicely to the quality of the products already in the Pattisson portfolio.

The established UK Company has also made good inroads into Europe, supplying distributors in Holland, France, Italy, Spain and Portugal. Mike Hinch goes on to say: “This we see as a great potential market that has not been explored thoroughly. We will be looking at our operation very closely to build a solid reputation throughout Europe.”

“Pattissons can deliver anywhere in the world and it was only recently that we supplied golf equipment to a club in Fiji.”

The Company itself seems to be heading for exciting times. Mr Hinch said he will be attending the IoG Exhibition at Peterborough where Pattissons have a stand.

**Exciting times for Pattisson**

As from the 5th July 1993 “H. Pattisson & Co Ltd” came under new management. The family owned company, established in 1897 has been bought out by Mr J. F. Hinch and his family. “Over the past year there has obviously been a lot of speculation about Pattisson & Co. It is our intention to continue to build the company on the family platform that has been established,” said the new Managing Director Mike Hinch. “There are quite a few internal changes that are needed to ensure our service and quality of our product is 100%.”

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Rolawn (Turf Growers) Ltd (stand PSC1-10/11/12) will be showing its new and innovative 'Turfmaster' machine, which has been specially designed for use in places where, in the past, limited access has proven difficult for the greenkeeper to lay cultivated turf. Turfmaster is extremely versatile, manufactured in steel and measuring 5' 2" x 3' x 4' and weighing 2601bs. It incorporates an hydraulic control system for raising and lowering rolls and has a useful semi-automatic lowering device which can be used simultaneously when the laying process is being carried out.

Turfmaster, which can be used by hand or towed behind a small tractor, is the latest machine to be added to the Rolawn range of laying equipment, which is supplied on loan, free of charge. Turfmaster can also be purchased at a special introductory price of £975. In addition, Rolawn will be displaying its mechanised big-roll, turf laying equipment and its extensive range of weed-free cultivated turf.

Farmura will be displaying their full range of turf management and landscape products – all of which are either organic or environmentally sensitive. Alongside the well known range of liquid organics, emphasis will be given to the new range of Flo Gro Super Concentrates, which are 2-5 times more concentrated than solutions – they offer major benefits in packaging, transport and distribution. Also, the new Blazon spray pattern indicator – Soluble E-Zee Paks – will be shown for the first time, together with the well known Blazon 1 litre packs. Of particular interest to landscapers is the Superpaver grass reinforcement system for load-bearing green areas – up to 100 tonnes per square metre is possible.

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Standard Golf (UK) Ltd and Envirogreen Limited (stand D68-69) will exhibit the world renowned Standard Golf of America's golf course furniture and equipment, including the new Tour Smooth rake. They will also launch their golf driving range equipment made in the UK, including their exclusive range and winter tee mat, which has a one year guarantee. The Golpet tee-up machine will be on display together with other unique equipment.

Envirogreen's new Envirosafe will be on show together with details of their services for chemical waste disposal, which includes contracts for empty chemical containers and unwanted chemical disposal. Pathmaker, a
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- Kinross (Green Hotel)
- Leek Golf Club
- Lingfield Park
- Massereene Golf Club
- Mere Golf & Country Club
- Milltown Golf Club (Dublin)
- Mold Golf Club
- Muirfield (Gullane) Golf Club
- Newbury & Crookham Golf Club
- Northwood Golf Club
- Omonde Fields Golf Club
- Pilton Golf Club
- Ponteland Golf Club
- Royal Ashdown Forest Golf Club
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- Royal Liverpool Golf Club
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