Five mixtures grown from the finest cultivars. All qualities from Golf and Bowling Greens to the back lawn. Freshly cut and delivered on our own transport, nationwide with forklift off loading facility. Cultivars included in our turf are: Sefton, Oriflamme, Cindy, Limosine and Barclay.

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The recent Elmwood College Greenkeeping Conference, which followed on from two days of specialist seminars, proved so popular that further one day seminars are planned for the future. The conference was chaired by Elliott Small, pictured, the BIGGA Scottish Regional Administrator, who skillfully guided the speakers and audience through an enjoyable day. It was announced during the week-end that Elmwood will be offering a new one year full-time National Certificate in Greenkeeping.

Myerscough (Lancashire College of Agriculture) is holding a two day event on May 14th/15th which will specialise exclusively in golf course construction and maintenance. The underlying theme will be to invite manufacturers of construction and maintenance equipment to use the College golf course to demonstrate, not only to clients, but to the many greenkeepers and recreation managers who are expected to attend. As an added feature, the College is also organising seminars relating to current developments in this specialist field. The event is being held at the Myerscough centre of the College, which is situated on the A6, 5 miles from junction 32 on the M6. All those interested in golf course construction-or in sportsturf generally—are welcome to attend. Entry is free, from 10.30am to 4.00pm each day.

Highly successful— that was the opinion of 19 greenkeepers who attended Elmwood's supervisory course for practicing or prospective head greenkeepers and course managers. This intensive course covered a variety of topics including: Time Management; Budgeting & Accounts; Health & Safety; COSHH; Public Speaking and Computers— including an introduction to the TRIMS Ground Management Softwear Package. Highlights of the course were the interview sessions where each greenkeeper was 'subjected' to the ordeal of facing a panel of well-known people from the industry for 20-30 minutes. Entry is free, from 10.30am to 4.00pm each day.

Fife Regional Council — Education Committee

ELMWOOD COLLEGE, Cupar, Fife

ARE YOU SEEKING GREENKEEPING QUALIFICATIONS? LOOK NO FURTHER! ELMWOOD IS No. 1 FOR GREENKEEPER TRAINING

• Block Release Apprenticeship Course (over 3 years)
• Intensive Single Block for experienced Greenkeepers (6 week from January 1992)
• Supervisory Course (Distance Learning)
• Head Greenkeepers' Management Course (one week)
• Head Greenkeepers' Advanced Management Course (one week)

Contact: Carol Borthwick, Horticultural Division
Tel: (0334) 52781 Ext. 225
Fax: (0334) 56795
Following the success of previous in-house Management Courses over the past two years, five more one week courses are scheduled for the coming autumn, all such courses specifically programmed to attract greenkeepers who may not have received further education or greenkeeper training.

The magnificent Aldwark Manor will accommodate over one hundred greenkeepers during the five courses and for those who have not yet visited HQ, will provide the ideal opportunity to luxuriate at a four star hotel with five days of education.

Those members who have attended either first or second year courses will again have an opportunity to attend, with week five specially created for them. It is anticipated that all five courses will be in heavy demand and members are requested to note specific week numbers and course content before completing the pre-paid booking card to be found facing Page 4 of this issue.

The costs for 1991 are again subsidised by generous support from Kubota (UK) Ltd and The Greenkeepers Training Committee.

YEAR 1
Week 1 : 28 October – 1 November inc.
Week 2 : 4 November – 8 November inc.
Course content to include: Time Management; Introduction to Computers; Communication Skills; Problem-solving. It is anticipated that all five courses will be in heavy demand and members are requested to note specific week numbers and course content before completing the pre-paid booking card to be found facing Page 4 of this issue.

YEAR 2
Priority will be given to those having attended the YEAR 1 Course in 1989 or 1990.
Week 3: 11 November – 15 November inc.
Week 4 : 18 November – 22 November inc.
Course content to include: Presentations to a Committee (verbal and written); Preparing a CV; Report Writing; Interviewing; Public Speaking; FEPA/COSHH; Spraying; Health & Safety; Turf Nutrition.

YEAR 3
Priority will be given to those who have attended the YEAR 1 and YEAR 2 Courses.
Week 5: 25 November – 29 November inc.
Course content to include: Discipline Amongst Staff; Preparing for Job Interviews; Irrigation; Tee & Green Construction; Preparing & Implementing a Course Maintenance Plan.

Lecturers for all courses will be drawn from GTC Approved Greenkeeper Colleges, The STRI and Private Training Organisations. All courses begin noon Monday and close noon Friday. Costs are inclusive of all meals and accommodation.

COST PER WEEK: £225 + VAT = £264.38. Please make cheques payable to BIGGA.

Early booking is strongly recommended – select chosen week and complete pre-paid card facing Page 4.

DAVID WHITE reports on the third BIGGA National Education Conference, York 1991

GREENKEEPING issues in a walled city

The Romans came to York in AD 71, an occupation that lasted for 340 years. The greenkeepers came, specifically occupying York's Langwith College, nearly 2000 later when about 170 people from around the globe gathered for the most ambitious conference yet staged by BIGGA, made possible through the generous support of Lindum Turf & Associates.

No less than 17 papers were presented, a remarkable feat demanding total adherence to schedule and made possible only by the firm reorganisation by Chairman, Gordon Child. Educational opportunities were abundant, and following George Malcolm’s introduction, America’s Dr Roy Goss began with The Influence of Soils and Tissues on G. W. York’s Langwith College, nearly 2000 later when about 170 people from around the globe gathered for the most ambitious conference yet staged by BIGGA, made possible through the generous support of Lindum Turf & Associates.

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impressed upon us three key factors which would bring about change for the better: thus override or outweigh any ensure total continuity and individual whims or personali-

just the right seasoning of between Unions, Clubs and this was a genuine partnership continued, "the sooner we convince Clubs that greenkeeping might have a part to play, Sec-
cerned". A murmur of is an art and a profession the

A learning experience

David Norton, the TORO Greenkeeper of the Year, recently spent two months in America as part of his winners award. These are his observations...

Airports can be chaotic enough in themselves and I had been quite enough organised chaos on both sides of the Atlantic, with my journey taking over 20 hours from Beverly to the University of Massachusetts. Just when I felt the worst was over along came a sting in the tail. That stinging was the 15 minute ride on Boston's underground, though without taking you on a similar ride I cannot begin to explain its nastiness. Suffice to say that in the whole eight weeks away it was the low spot of my tour, and I count myself lucky to have arrived with luggage intact. When I finally reached the campus it was dark; below freezing; snowing; and the dormitory was locked!

I was soon inducted into American ways and began the seven-week, eleven subject, course in fine spirits. These included turfgrass management; golf course architecture; turfgrass diseases; entomology; irrigation; physiology; personnel management; calculations; soils and fertilisers; trees and shrubs; and the course examination was being tested by exam or practical project, sometimes both.

There was never a dull moment, for the excellent course material was both informative and practically based and classroom days were long - 8am to 5.30 pm - the time flew past. Some of the material was familiar from my days at Askham Bryan, with the presentation made doubly fascinating by its 'Americanisation'. For example, our meadow grass is known as Kentucky Blue Grass (which sounds much nicer) and came to light when latin names were used in the classroom. My American day grew when a talk turned to American warm season grasses - so different from those few varieties we have here in Britain - and the management practices necessary for their survival.

The essential ingredient in any learning experience is, in my opinion, the dialogue that comes after school. My unfounded though long-held views on America and the Americans were soon changed through such conversations and I now feel that no big gap exists in the capability of 'them' as opposed to 'us'. What is clear, however, is that education is a high priority, high profile subject, and this we must emulate at every opportunity if we are to gain the same professional recognition enjoyed by our American cousins.

Did I tell you about the war? It broke out whilst I was there, giving me an exposure to American news coverage that was truly mind-blasting. Twenty-four hour TV coverage on four channels, newspapers crammed to capacity and in Amhurst itself the sight of demos and peace protesters marching on the streets. This climaxd on George Washington's Birthday when a peace protestor incinerated himself on the village green. Thankfully a cease-fire was called before I flew home.

This was no "all work and no play" trip and I lived it up in Las Vegas at the GCSAA show. I had been privileged to meet and talk with many other important and influential people in the golf industry. Truly a learning experience. Las Vegas itself will long live in my memory, with its gambling tables and over-the-top extravagance style. Could you really believe it, I even saw white snow tigers guarding the entrance to the Mirage Hotel!

Returning to school, a final grand dinner (coinciding with celebrations of the 60th anniversary of the turf school) was shared with lecturers and students, before we all received our certificates at a passing-out parade. I had learned so much, mixed with so many fine people and was reluctant to move on, but California - in the shape of TORO's Irrigation Plant at Riverside - beckoned.

Scoones, and a chance to meet ICI Premier Greenkeeper The Tamarisk Course, southern California

Soones, and a chance to meet ICI Premier Greenkeeper Award winner, Anthony Davies, who had also won a trip to the show. Likewise familiarity at the TORO exhibit where Graham and Dave presided and where I was invited to participate in still more merriment - this time at TORO's reception party.

On campus I had met folks from Sun City; Pebble Beach; Butler National, Pinehurst and Pole Creek, to name but a few of the famous courses represented, whilst at the show I was privileged to meet and talk with many other important and influential people in the golf industry. Truly a learning experience. Las Vegas itself will long live in my memory, with its gambling tables and over-the-top extravagance style. Could you really believe it, I even saw white snow tigers guarding the entrance to the Mirage Hotel!

One day to go, with the morning spent at Riverside in mind-blowing discussion with Jon Williams on irrigation systems past, present and future. I do hope he achieves all that he is aiming for. Indeed, on reflection, I'm sure he will. Now the end is looming, though I could happily stay on for several more weeks in California, and I am sorry to leave. The airport newstand offers an English newspaper for £5.50 and I begin to feel drawn homeward bound. Calculations now reveal that I've covered 20,000 miles, being transported through Boston's subway nightmare to the tables of Vegas and the beaches of California. A great and rewarding experience which I shall never forget. There are too many people to thank individually, but to everyone concerned - the organisers, TORO as sponsors and all Americans who made me feel so welcome - thank you all. May all future winners enjoy equal pleasure and delight and, perhaps most important of all, gain true and lasting benefit from the learning which such a trip affords.
Part Two

A

fter spending considerable time and expense in making a planning application, it will eventually seem worthwhile after the agonising wait is over and consent is granted. Sometimes, however, the case may arise when a District Council will only allow development to go ahead after a number of specific criteria have been satisfied, the requirements normally coming in the shape of a Section 52 Agreement. The developer must satisfy these demands as soon as the information is available, which may pertain to such matters as site access, or further more detailed landscaping plans. In any case, all relevant information must be submitted to the District Council, to help them visualise the extent of the proposals.

From this point, it is effectively possible to begin construction works on site if the design has been finalised and a contractor appointed. It is, however, more often the case that detailed design work must still be prepared. The plans submitted to the District Council will invariably have shown the overall design layout of the golf course and therefore it will be possible to use the Routing Plan for the major design work.

The Routing Plan alone will be insufficient in providing the detailed information necessary for construction of the course as it will only show a relationship between greens, tees and fairways, as opposed to finished levels of the proposed features. It will therefore be necessary to produce construction drawings for greens, tees, fairways and all other features on site, such as lakes and mounding.

To prepare these, a thorough topographical and site survey will need to have been carried out, showing all existing contours and other interesting features such as hedgerows, lakes, streams, marshland, public footpaths, mature trees and woodlands, badger sets, sites of special scientific interest, and any conservation areas that may exist.

The routing plan will have taken these important factors into consideration, as will all detailed construction drawings. Each construction drawing will show the area where a proposed feature is to be located and indicate, by showing proposed contours in relation to those existing, how much earth movement will be necessary to create a feature. The scale of the drawing will be sufficiently large in order that accurate measurements may be taken off in setting out the design on site.

Each green, tee and fairway drawing will provide the contractor with an accurate means of pricing the construction, however these drawings should only be read in conjunction with a specification and accompanying Bills of Quantities.

Once a tender has been received, from however tender or by negotiation – (usually based on the cheapest quote, though sometimes uncertainty about the lowest bidders ability to complete the contract before going broke may see the second lowest accepted) – it is his responsibility to provide both architect and client with a construction programme and timetable, indicating the period necessary to build the golf course and including an agreed completion date. Sometimes a contractor can suffer major set-backs due to poor weather or with differing soils, which can make it very difficult to estimate just how the contract is due to progress. The construction programme, therefore, is produced purely as a guide-line.

The contractor must also provide the architect with samples of soil, peat, sand and seed mixes for approval and analysis prior to any orders being made. Once a design is finalised the contractor is responsible for the accurate setting out of the design on site, which is checked and approved by the architect before construction proceeds. The architect must also ensure the golf course is being built according to specification and that correct materials are used. He will normally visit the site once or twice a month to supervise construction and certify completed work. The contractor will provide sample stockpiles of materials on site, which must be available for random testing should the architect feel such tests are necessary.

During the construction the contractor will submit to the client a valuation related to works completed. This is normally at the end of each two or four week period. It is the architect's responsibility to then issue a certificate which confirms that the contractors calculations are true and correct. The client will employ a Clerk of Works throughout to oversee the works, however, the architect will act as an unbiased judge should complications or disagreements arise between either party. Once the architect has signed a certificate the client will release payment to the contractor.

As the contract progresses, meetings will be set up on site by the architect, involving both contractor, client and himself and established to ensure progress is satisfactory and the contractor is keeping to construction schedules.

There are many imponderables, but if the contractor has adhered to specifications, drawings and his programme and there have been no major difficulties, the golf course will be finished on time, enabling the architect to grant the contractor a Certificate of Completion. This is only issued when both architect and client are fully satisfied and will, as a normal course of action, include a defects correction clause. This clause is a negotiable factor and is dependant upon individual client wishes, however it usually extends for twelve months after completion. If any part of the golf course fails in this time, the responsibility lies with the contractor to return to site and make good those faults.

Once construction works have been completed the course should be left to establish and mature for 18-24 months – dependant upon the construction specification – and it is during this period that course grooming will play a vital role and a maintenance contract will be established.

Next month - A golf course without players - maintenance is the key to success before opening day.

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The Landscape Industries event is proving to be an important focal point for this growth industry. Now in its fourth year, it has established itself as the major exhibition, growing by 30% every year since its inception. Over 240 companies and organisations, covering all aspects of this diverse industry, chose to exhibit at Landscape Industries '90 including 13 colleges and 29 technical and educational displays. Landscape Industries differs from the other events by its concept. It is put together not just as a trade fair, but as a valuable source of technical and educational information. The benefit of Landscape Industries is for the whole industry, funds are ploughed back into research, education, training and development.

The exhibition is also intended to contribute to a more integrated approach to the development of landscaping and the environment, and has the long term aim of bringing together those who manage land with those who have the technology and skills to create and adapt the landscape to reflect the changing needs of the community.

The landscape industry is a growth sector and landscaping issues in their broadest sense are assuming greater significance in all aspects of life.

Landscape Industries '91 provides the ideal business forum for everyone with an interest in this diverse but specialist industry.

The event has the sound backing of the three key organisations: RASE (Royal Agricultural Society of England), BALI (British Association of Landscape Industries) and ILAM (Institute of Leisure and Amenity Management), together with the committed support of such organisations as the National Turf Grass Council, the Association of Playing Fields and Leisure Managers, the ABT and many others. By working together, these organisations provide a partnership with the sole purpose of developing an event which will help to stimulate the growth of the landscape and leisure industries.

Companies and visitors alike can meet in a vibrant business forum within an effective market place to develop and exploit existing and new opportunities. Landscape Industries offers the unique combination of a...
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The industry has come of age'

- From Page 27
- Quality indoor presentation of static stands together with outdoor working demonstrations. With all the leading commercial companies presenting the latest technology, equipment and services, Landscape Industries is a show providing the visitor with the most comprehensive range of exhibits covering all aspects of landscape and leisure.
- The event aims to attract the key decision makers within local authorities, landscape architects, county councils, specifiers, designers, contractors, and golf greenkeepers and provides the opportunity for companies to meet with their customers and prospective customers.
- Last year over 7000 visitors took the opportunity to see the static exhibits, working demonstrations and technical features on this compact, accessible site.
- Visitors will be able to see the established mix of trade stands and technical and education displays alongside working demonstrations, all designed to communicate new developments and technology and encourage further growth of the industry as a whole.
- There will be products and services covering:
  - Interior and exterior landscaping.
  - Machinery and equipment.
  - Grass seeds, turf, nursery stock and chemicals.
  - Fencing and paving.
  - Forestry, amenity and leisure exhibits.
  - Financial, design, advisory and consultancy services.
- Special features include:
  - Informative seminar programme covering quality assurance, contract monitoring and alternatives to peat.
  - BALI pentathlon.
  - ATB/BALI Training In Action demonstrates the type of training available by means of various working projects.
  - Demonstration of tree climbing and equipment by the Arboricultural Association.
  - Safe handling with forklift trucks demonstration.
  - Teach-in by the National Turfgrass Council on reinforcement materials and turf quality.

Landscape Industries '91 is expected to attract the usual professional audience including landscape architects, local authorities, contractors, engineers, specifiers and designers...in fact, representatives of the whole cross-section of this diverse industry.

Bill Hickey, Chief Executive of BALI feels, "For the first time all those concerned with the landscape business have an exhibition of their own, where they can meet to concentrate on all issues necessary to discuss and develop matters of common interest and exert a measure of control over the future of their industry... Landscape Industries is more than a trade show, it is a statement that the landscape industry has come of age and is capable of standing on its own feet".

The event takes place on 5th and 6th June 1991 at the National Agricultural Centre, Stoneleigh Park, Warwickshire and is open from 9.30am to 5pm on both days. Admission is free.

Run-down of some of the exhibitors: Pages 31 and 32.
If anyone can

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