

DOUBLE
HEADER
FOR '86

TO promote its vital role in awakening the nation's consciousness regarding the efficient use of energy, the electricity supply industry is planning major campaigns directed at all customers from the largest industrial concern to the smallest cottage on the supply network.

The twin spearheads are "Industry Year 1986" and "Energy Efficiency Year 1986", the continuation of the Department of Energy's five-year plan to cut Britain's £35-billion annual energy bill by 20 per cent.

At a recent press conference, Peter Walker, Secretary of State for Energy said that 1986 should be a year of enormous impact



regarding energy efficiency, and he was confident of success.

"Already hundreds of events have been planned, highlighted by a national energy efficiency competition with a £50,000 energy-saving home as major prize," he continued. This competition, which will involve the electricity supply industry, is explained in advice-giving booklets which will be sent to 20 million households.

"At the moment, Britain indulges in a scandalous waste of energy," said Mr. Walker. "This scandal must cease".

Later this month, the Minister will be unveiling a system which will show, minute by minute, the amount of energy being wasted in this country.

"Monergy" is a new word which will now find a place in

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GLASS AND STEEL WIN 'PEP' AWARDS

MANWEB Presentations

TWO firms each from the glass and steel industries scooped the honours in the 1985 MANWEB area 'PEP' competition.

'PEP' stands for Power for Efficiency and Productivity and the Awards go to companies which make big improvements in their efficiency, productivity and competitiveness by adopting electrical techniques.

This was the second year in which the 'PEP' idea has been adopted nationwide, and 19 firms from all parts of Merseyside and North Wales put forward a total of 21 entries in the two sections of the competition—for firms with up to 200 employees, and for those with more staff than that.

More than 100 leading personalities from all sections of industry, commerce, and national and local government gathered at the Queen Hotel, Chester, last month for the big occasion—the presentation of the trophies and commemorative plaques to the winners and runners-up from the hands of Sir Alastair Pilkington, President of the St. Helens glass giant Pilkington Brothers.

With our Chief Commercial Officer Peter Hopkins acting as a polished Master of Ceremonies, a warm welcome from our new Chairman Bryan Weston, some sage advice from Sir Alastair, and a slick slide-tape presentation illustrating the value of switching to electricity for the firms concerned, the occasion was a huge success.

Managing Director of the Buckley Foundry (Chester) Ltd., David Goodwin, and Plant Manager for United Glass Containers, of St. Helens, Robert Montgomery, were there to receive the main honours—the 'PEP' Awards themselves, commemorative plaques to put up in their factories, and cheques for £500 each. The 'PEP' trophies take the form of the Greek letter 'eta' in polished metal mounted on a wooden base.

These two entries go forward to represent MANWEB in the national finals in London. Our representative firms did especially well last year, taking second and third places in their respective categories.

Runners-up were L. Greenberg and Son, of Kirkby, (makers of toughened glass) and Midland Rollmakers, of Crewe (makers of rolls for the steel industry). Sir Alastair presented commemorative plaques to Martin Walsh, financial director of Greenberg's, and to Raymond Fisher, a director of Midland Rollmakers.

Welcoming the guests, our Chairman, Bryan Weston, said that every entrant in the 'PEP' competition was a winner because all had strengthened their competitiveness and profitability.

He added that the electricity industry's purpose in running the competition was to encourage industry to use energy wisely and to promote the transfer of energy-use to electricity produced from coal and nuclear power.

"World-wide, there is general agreement that coal will have to

provide an increasing proportion of our energy needs. Known reserves of oil and gas are only a little over one-third of those of coal, yet they are being used up at twice the rate," said Mr. Weston.

Commenting on the fact that the 28 finalists in last year's national competition had invest-

ed £2.6 million in electrical techniques and had saved £1.6 million in their first year alone, Mr. Weston added that changing to electrical processes could often help British industry to strengthen its position in world markets.

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MANWEB FIRST

MANWEB is the first Board in the country to use electronic metering to record the consumption of their industrial customers on maximum demand tariffs as a standard practice.

After several years pioneering work, with experimental installations and early production equipment, with modifications and with its teething problems resolved, all new and replacement polyphase metering will now be of the electronic type.

The electronic units are programmable for a variety of requirements, and give the option of offering a wider range of tariffs. The old-style metering meant that there were 190 meter equipment variations: it is now cut to just 24. This reduces our

stock level requirements, makes equipment more likely to be available, eases work programming and budgeting and accommodates tariff changes.

The new system consists of a simple mechanical Ferrari disc-drive meter, similar to those in domestic premises, with "add-on" solid-state units. It replaces a mechanical meter with complicated drive gear, powering complex recording equipment. Now electronic pulses from the simple disc meter power the solid-state units.

With the "multi-rate register" units adopted for the majority of low-voltage supplies, up to eight aspects of the tariff can be recorded. A liquid crystal display shows each function in turn, every few seconds.

For high- and medium-voltage supplies, the more complex "Sigmatic" unit can record all the functions programmed for up to eight meters. By touching a keyed panel on the glass front of the unit, a read-out for any function from any of the meters can be displayed on the liquid crystal register.

More information on this system, pioneered by MANWEB with units developed by GEC with the Board's co-operation, will appear in a future edition of 'CONTACT'.

Sir Alastair Pilkington, third from right, presents 'PEP' Awards to winners, David Goodwin, centre, and Robert Montgomery. Also pictured are, from the left: Glyn Norbury (Customer Services Manager, Mid-Mersey District), Bob Hodson (District Manager, Clwyd), Bryan Weston (Chairman) and Peter Hopkins (Chief Commercial Officer).





At the presentation of the runners-up awards are, from left to right: Martin Walsh (L. Greenberg and Son), Bryan Weston, Sir Alastair Pilkington and Raymond Fisher (Midland Roll-makers).

FROM PAGE ONE

'PEP' AWARDS

Other countries, including Sweden, France, West Germany and Japan had recognised this, and their industries were switching to electrical techniques at a rapid rate. A recent survey in Japan showed that an extraordinary 55% of significant inventions and innovations used in world industry had originated in Britain.

"Tragically it would seem that our excellent research and development skills are being ignored by our own industries and instead are feeding the successful marketing efforts of our competitors."

He concluded by saying that reduced costs and increased profits arising from electricity substitution for other more expensive fuels should provide a very powerful incentive for British industry.

After receiving their Awards the representatives of the four firms involved all expressed their appreciation of the distinction, stressing the value to their companies of switching to elec-

tricity and thanking MANWEB load development staff at District and Head Office level for the expert advice which had encouraged them to take the plunge and make the substantial investments called for. There were kind words also for the pioneering work carried out at the Electricity Council's Research Centre at Capenhurst.

The man who made the presentations, Sir Alastair, has a fine track record as an innovator, having pioneered the "float glass" process which is now accepted as a standard, world-wide.

Sir Alastair told the gathering that all the companies which had entered the competition were "on the side of the angels" because they were saving non-renewable resources and because they were being competitive.

"As a nation we have not been nearly obsessed enough about being competitive" he said. "It has taken us far too long to realise that real jobs are based on being competitive, and that we must raise our levels of efficiency to create the kind of future which everyone wants for Britain."

On the subject of energy costs he said that British industry's costs were still high compared with those of our European competitors, but that MANWEB was a "friend and ally" of industry in the fight to reduce costs, although the electricity industry was subject to forces over which it did not have control.

'PEP' HOT SPOT

Tennant Radiant Heat Ltd., of Warrington, winners of a top 'PEP' Award last year, manufacture gas radiants. A short time ago they called in our Mid-Mersey District staff to install electric storage heating in their offices! Still using energy efficiently.

Right: Peter Hopkins, right, presents the District 'PEP' Shields to Allan Hill (Mid-Mersey), left, and Ron Carter (Clwyd). Also in the picture is John Walker (principal engineer), who helped to orchestrate the 'PEP' Award ceremony.

Below: The 'PEP' Judging Panel. From left to right: Matthew Cowan (Director, ECRC, Capenhurst), Ted Mather (Chairman, M & NW Centre, IEE), Bruce Scott (North West Regional Chairman, CBI), Bob Jowett (Load Development Manager), John Walker (principal assistant—Industrial) and Robin Gardner (North West Regional Energy Efficiency Officer).

1985 'PEP' AWARDS

CATEGORY 1

WINNER—Buckley Foundry (Chester) Limited

BY 1979 "the writing was on the wall" for this small basic iron foundry. Manufacturers were demanding a new breed of castings with standards, strength, quality and perfection not previously considered. The situation was critical, but Buckley Foundry adopted a positive approach and invested in the future by changing from coke and oil-fired melting to electric melting, using induction furnaces.

This has led to improved quality, a reduction in metal wasted, reduced energy costs and increased market penetration.

Staff morale is high as the working environment has improved and they now have pride in their new technological image.

RUNNERS-UP—L. Greenberg and Son, Kirkby

THIS firm manufactures toughened glass. By using an electric furnace incorporating the latest micro-processor controls, along with heat recovery features, and by fully exploiting low-cost night-rate electricity, they have reduced their energy costs by 75% per unit of production. Turnover has trebled, and they now employ 30 additional staff. They believe they are the most technically-advanced privately owned glass processors in the UK.

CATEGORY 2

WINNER—United Glass Containers, St. Helens

GLASS manufacture is an energy intensive industry and this firm, by switching from gas to electricity for their 'forehearth' heating, are saving more than £100,000 a year on their energy bill. Operating efficiency and product quality have improved.

This development, the first in the UK and among the first in the world, is for the operation of a complete forehearth for high quality "white flint" glass. Visitors from all parts of the world have been to St Helens to discover for themselves the benefits of this change.

"White flint" glass is the type of glass used to make the clear bottles and jars.

RUNNERS-UP—Midland Rollmakers, Crewe

THIS firm makes large steel rolls for the steel industry. By using electrical heating techniques they are able to keep the metal content of a large ladle in a molten state while a second batch of molten steel is being prepared.

This has made it possible for them to produce cast steel rolls almost twice as large as those which their equipment was formerly capable of turning out.

The technique employed in keeping the metal at casting temperature (known as the 'loop-heated ladle') was developed at the Electricity Council's Research Centre at Capenhurst.



SHOWTIME

NEWS has just reached us from the far-eastern reaches of the MANWEB area — where incidentally, there is a salt mine — that a report in last month's 'CONTACT' that the Anglesey Show was the only agricultural event in which the Board took part this year, was incorrect.

It transpires that colleagues in our Mid-Cheshire District were present, in style and doing good business, at the Nantwich and South Cheshire Show, held a short time ago.

A mobile display caravan, borrowed from friendly neighbours, the Midlands Electricity Board, was the centre of the attractive display illustrating many of the uses to which electricity can be put on the farm and in the farmhouse. A variety of slimline storage heaters were on show and visitors were advised of the advantages of Economy 7 and special farm tariffs.

Broadcasting their programme 'live' from the show-ground, Signal Radio announced that surplus electricity left over from the show would be sold off at 65 per cent discount that night! They went on to say that MANWEB would continue to sell electricity at this discount price for seven hours every night!!

"The use of the MEB show caravan provided us with the opportunity, at low cost, to test the usefulness of our presence at such events in today's market

climate," said Mike Potts (Load Development Engineer).

The one-day show attracted a record 26,000 visitors and featured one of the world's largest exhibitions of cheese. This is not too surprising when one considers that Cheshire County has a very high concentration of dairy cows.

"This show venture enabled the Board's staff to meet a large number of customers from the area. Following our advice, several asked for conversions to two-rate tariffs. Sales of water heating programmers and many enquiries for electric heating systems made the whole exercise worthwhile," Mike continued.

"From the public relations aspect, considerable benefit will flow from our willingness to be available for answering questions and for discussion," he went on. "Our visitors seemed to be genuinely pleased to have the opportunity to discuss tariffs, home heating and the use of electricity on the farm."

"Show day also turned out to be a morale booster for all members of the District staff who were involved," Mike concluded.

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DOUBLE HEADER

our language. It is the identifying word for the Energy Efficient Year motif.

"£70-million-worth of marketing effort will be built around money to make people aware that energy is money and that wasting energy means wasting money", commented Peter Walker.

"By adopting energy-saving techniques, people can get more for their money."

He went on to say that savings would be gigantic and the impact it would have on the nation's economy and employment would be of considerable importance.

The electricity supply industry is to promote the "Get more for your money" slogan, with a major television campaign in its advertising for 1985/86. This will appear on the screens from mid-January to March and will feature the benefits of thermal insulation and demonstrate the efficient use of electricity in our main market sectors.

The monergy theme will also be linked with further industrial and agricultural advertising during the coming year.

A variety of exhibitions illustrating the use of electricity in joint support of "Industry Year 1986" and "Energy Efficiency Year 1986" will be carrying the monergy message.

The Electricity Council is to take the lead in organising a national Energy Study UK Competition for schools.

Another major promotion during the year will be to establish a strong connection with the industry's "PEP" Awards. This

will cover the 1985 national finals in January and, later in the year, the 1986 regional award winners.

Our own Chief Commercial Officer, Peter Hopkins, said that the two campaigns during 1986 offered an excellent platform on which to further promote MANWEB's important contribution to industry in our area and to energy efficiency.

He commented that our Marketing section was drawing up a detailed programme of support. This includes a road-borne travelling exhibition touring the Board's area. There will also be a joint involvement with neighbours Norweb and with the CEBG in the Greater Manchester "Enterprise North-West" Exhibition to be staged on the site of the former Central Station.

Plans are also being formulated to hold seminars and conferences, in conjunction with the Electricity Council Research Centre at Capenhurst, for selected industrialists and businessmen. Consideration is being given to organising MANWEB "Open Days".

"The pamphlet from the Energy Efficiency Office, which features our industry's 'Energy Wise Homes', distributed to every household in the country, was a bold Government initiative," concluded Mr. Hopkins. "This kind of energy efficiency information is featured regularly in the stuffers accompanying MANWEB accounts. These efforts should certainly help to bring a greater awareness of the savings our customers can make by improving their use of energy."

Life of a salesman

FOLLOWING-UP an enquiry, Phil Mather, a Commercial assistant in our Clwyd District, telephoned the customer late one afternoon recently. He was told that the Gas Board had been given the go-ahead to install central heating two days later.

Phil immediately asked for an appointment before the fateful day, but was told that it was not possible, as they—the customer and his wife—worked out all day.

"How about now?" countered Phil, "There's no time like the present!"

The customer acceded, and a meeting was arranged.

Phil and his fellow Commercial assistant, Will Pierce, were quickly on their way. They talked to the customer for an hour and a half. During this time, the Gas Board staff tele-



Supersalesman
Phil Mather

phoned to make arrangements for their installation team. Undaunted, Phil and Will continued their double act.

One very big hurdle they had to overcome was the article on central heating featured in a recent issue of the "Which" magazine. This was heavily biased in favour of gas, and no doubt influenced the customer's decision.

They went on to convince the customer—and his wife—that electricity was the better choice, and came away with an order for nearly £1,500-worth of storage and water heating!



Hymac excavators busily digging the trench across the estuary in readiness for the submarine cable. In the left distance is the extra-high, now redundant, 'H' pole which was used to carry the line over the water. The normal height pole, with its transformer, is positioned ready for its new connection.

Underwater cable at Treaddur Bay

OUR construction engineers have now successfully completed a scheme which involved the dismantling of the 11,000-volt overhead line adjacent to the Four Mile Bridge at Treaddur Bay, Anglesey, and replacing it by laying 300 metres of armour-covered submarine cable under the estuary.

Originally constructed in 1931, from time to time sections of the line have been diverted or put underground to cater for housing developments along its route. Only one span was left and this regularly suffered from lightning strikes and, on one occasion a supporting pole caught fire.

The overhead line and its supporting poles was built higher than normal to clear the masts of passing boats. It was decided that, with the line removed, the general amenity of the area would be improved and, with a replacement cable, electricity supply to Holyhead and its suburbs would be more secure.

On investigation, our engineers looked first at the possibility of taking a cable across the Four Mile Bridge. At the time, this seemed the most obvious route. However, the age of the bridge—it was constructed by Telford in the 1820's—and the constant pounding of the sea against the stone abutments, turned it into a very doubtful choice.

The only alternative was to lay the cable under the water in a direct route following the existing overhead line. A number of trial holes were dug and checks made on levels before consent to lay the cable was given by the Ministry of Transport Marine Directorate. They agreed to the 300 metres of 11,000-volt cable being laid

at a depth of 750 mm, in a trench in the sand and mud across the estuary.

A major problem was the complicated tidal variation in the estuary caused by the supports for the two bridges which connect Holyhead to the mainland. Careful planning regarding the method and timing of the installation to achieve the best tidal conditions during daylight hours was required. A study of the tide tables and advice from the local coastguard gave our engineers the answer for an almost ideal low tide occurring during the work schedule. This started at five o'clock in the morning and gave a five-and-a-half hour period before the estuary was covered with water again.

Prior to the crossing operation, all land excavations were completed. Cable was drawn on one side of the estuary and a winch made ready on the opposite bank.

At the appointed time, the heavy cable was hauled across the sea bed and set in position. Two Hymac excavators and a JCB ploughed a trench across the estuary into which the cable was then laid. The job was finished with only minutes to spare before the sea flooded in.

Finally came the reinstatement of the land trenches and the necessary navigational signs were erected.

Eventually, the location of the cable, and the warnings, will appear on navigational charts. This will help to prevent local shipping using anchors in the vicinity, thereby possibly damaging the sunken cable.

The design and planning of the scheme was carried out by Geoff Price (senior engineer) and the supervision of the installation by Gordon Jones (2nd engineer), both from our Plant and Construction section at Head Office.

Our Chairman writes . . .



Dear Colleagues,

Two months have now passed since I came to MANWEB to take over as Chairman.

Coming as I did from Yorkshire, with little detailed knowledge of the Merseyside and North Wales area, the business of settling in is proving to be fascinating and exciting. From the very first, it has been apparent to me that MANWEB staff are people who take pride in carrying out a vital job and in maintaining our essential service, in the interests of their fellow-citizens.

I intend to visit every major place of work as soon as humanly possible, but I am sure you will understand that this will take some time. In the meantime, I would like to express my appreciation of the welcome extended to me by everyone I have met so far—a welcome which has been both warm and obviously sincere.

As you will all be aware, the process of moving into a new circle of friends and work-mates often places an individual at something of a disadvantage. Everyone immediately recognises the newcomer, while he or she is faced with a sometimes confusing sea of strange faces and unfamiliar names. When the circle is as big as the 5,000-strong MANWEB workforce, a new Chairman finds himself in just such a position, and I am grateful for the understanding which is being shown by so many people. But please, when we meet for the second time, remind me who you are and where we first met!

I have been in the unusual position of having worked directly with six Chairmen in 12 years. They have all had different styles of working, and I will be no exception. From the number of telephone calls to Yorkshire, I know that many of you were anxious to know of my style. Change can be disconcerting, but approaching the same problem a different way can be challenging and rewarding for all of us.

Some of you have asked about my job. Well, yes, there is the hot-seat part, where I have to answer for MANWEB to many different groups and interests, to well over a million customers, and to those in high places. But I like to see it more as providing a climate for good customer and staff relations. If these exist, everything else falls into place.

Good customer relations imply that we provide a service at a level the customer wants and is prepared to pay for. It means not only providing value for money, but showing that we give value for money. Customer care is my watchword—they pay the bill. But this will not be achieved without good staff relations. The staff are MANWEB. If you are not caring, efficient and enthusiastic, then customer care will not exist. From what I have seen, we will get on well together.

Bryan Webster

READER SURVEY SEEKS YOUR VIEWS

During the next couple of weeks about five per cent of our readers will receive a copy of a "Readers' Views" survey form, seeking the opinions of this representative cross-section of the contents of 'CONTACT'.

This survey is being carried out on scientific lines and it is hoped that the results, when analysed, will help the editorial staff to maintain and improve the contents of our newspaper.

If you should receive one of these forms we ask you to take the trouble, and a few minutes of your time, to complete it and return it in the envelope supplied.

Long Service

WE offer our congratulations to the following members of the Board's staff who have completed, during the month of October, 40, 30 and 20 years' service in the electricity supply industry.

40 YEARS — Dee Valley District: **Emyr James** (District records draughtsman). Head Office: **Robert Hughes** (transport foreman, Legacy).

30 YEARS — North Wirral District: **Charles Scully** (craft attendant). Mid-Cheshire District: **Derek Johnson** (2nd engineer, Installation) and **Albert Tomlinson** (general duties assistant). Oswestry District: **Frank Evans** (foreman, Engineering). Head Office: **Ronald Thompson** (1st engineer, System Management) and **Raymond Williams** (administrative assistant, Financial).

20 YEARS — North Mersey District: **Joseph Bradley** (meter attendant). Liverpool District: **John Hughes** (craft attendant) and **Joseph Pennington** (craftsman, electrician). Dee Valley District: **Albert Cooper** (craftsman, overhead lines). North Wirral District: **William Edwards** (craftsman, electrical fitting). Aberystwyth District: **Clifford Roberts** (shop supervisor, Machynlleth). Head Office: **Gladwyn Roberts** (administrative assistant, Financial).

SMALLEST DISTRICT WINS BIG CONTRACTS

Boost for University and for local tourism

ALTHOUGH Aberystwyth is our Board's smallest District, their Commercial staff can boast of three impressive and attractive top contracts recently completed.

A 'first' for MANWEB was the tricky installation for a computer network at the University of Wales, a second was for the floodlighting of Constitution Hill, of interest to tourists in the area and finally, the complete electrical installation and illumination of the building on top of the Hill, housing the world's biggest Camera Obscura.

Commented District Manager Dewi Parry, "Aberystwyth is steadily improving its image as a thriving University town and as a tourist centre. Our District is playing its part in both areas".

Seat of Learning

ABOUT a mile away from our District Office at Lluest is the University of Wales (*Prif Ysgol Cymru*) where, over the years, MANWEB electricians have worked on a variety of installation contracts.



Above: Working on the co-axial cables, Evan Pritchard, left, and Gordon Pugh.

Below: On the final test, Phil Swift, left, and Peter Edwards.



When it was decided to install a local network computer covering the campus, our Installation Engineer David Bennion decided to tender for the work.

"It seemed to be, with one or two restrictions, the type of wiring job we could cope with," he told us. "At a meeting with the University computer experts, they specified exactly what was required to enable departments throughout the campus to have access to the University's main-frame computer data memory banks. We quoted, against specialist opposition, and got the contract".

David went on to explain that in order to comply with the strict requirements of the contract, the cable routes had to be carefully planned along with the siting of the transceivers, repeaters and associated devices.

High-powered electrical plant which would interfere with the trunk cable had to be avoided. To enable the system to be easily extended and re-routed, or damaged sections quickly replaced, the most accessible route was chosen.

The whole installation had to be completed quickly, in readiness for an arranged special Seminar at the University. The Men from MANWEB pulled out all the stops and had the tender submitted in two days. Within two weeks the underground ducting and manholes had been completed and work on installing the cable started. The indoor section of the cable was finished in under three weeks.

Commercial foreman Evan Pritchard supervised the whole job which was carried out by craftsman electrician Gordon Pugh and apprentice John Williams.

"One of the difficulties we had to cope with was the special care needed not to compress, crimp, crush or stretch the co-axial cable," commented David. "Also unlike the cable we normally use, this had a maximum bending radius of 250 millimetres calling for careful circuit planning to avoid sharp bends. It was essential to accurately measure every segment of the co-axial cable being installed, a requirement for part of the rigorous test carried out on completion of the installation".

Again the District staff took up the challenge. The special skills required for terminating the cables were soon worked out by Evan and Gordon.

With the last cable connected, to the satisfaction of the University engineers, it was then time for the team from Head Office, headed by

The University's Jeremy Perkins, centre, says thanks for a job well done to Dave Ferguson, left, and David Bennion.



Brian Nield (*senior engineer, Technical*) to test and commission the installation.

Dave Ferguson, (*1st engineer*), Peter Edwards (*2nd engineer*) and Phil Swift (*craftsman electrician*) completed their work in under two days, and the whole job was ready one week ahead of schedule.

The University's Operations Manager, Jeremy Perkins expressed his thanks to the whole MANWEB team for their fine effort and for the excellent way in which the work had been carried out.

District Manager Dewi Parry said that this special job had given the District a terrific boost. "I am very pleased with the close co-operation between the District staff and colleagues from Head Office to make this an interesting and worthwhile contract.

"It was a great opportunity to take on advanced technology work and the valuable experience gained by a select band of people — in MANWEB's smallest District — will enable the Board as a whole to consider future work of this kind and compete with the best in the field," he concluded.

Attraction for visitors

Some time ago, colleagues from the District's Load Development section successfully floodlit the famous Aberystwyth Castle for the Ceredigion District Council. Their surveyor Bill Jones was delighted with the result and asked if a scheme could be prepared for the floodlighting of Constitution Hill at the other end of the Promenade.

To effectively illuminate this rocky outcrop with its variety of paths and bridges leading to its 430-foot summit, was a challenge which the Men from MANWEB could not resist. Arrangements were quickly made for the loan of suitable equipment from Thorn Lighting.

Then, one evening Commercial colleagues David Bennion, Allen Carr and Clive Wintle, armed with generators, cables, ropes and a tower-wagon, made an assault on the Hill. After hours of hair-raising sorties to establish sites for the lighting units, a suitable scheme was devised.

Because of the difficult, undulating terrain, it was decided to install six Thorn 1500-watt MBIL high-powered fittings mounted on steel columns. The scheme was submitted to Ceredigion Council early in July. With the return of their acceptance order they expressed a wish for the work to be completed in time for an official switch-on at the end of that month!

The two-man team from Lluest, Evan Pritchard (*foreman, Commercial*) and Dai Lewis (*craftsman electrician*) had the work completed in good time for the switch-on by a member of the Welsh Tourist Board. For Ceredigion District Council, Mr. Jones expressed thanks for a job well done.

For those who cannot face the climb up Constitution Hill there is the Electric Cliff Railway — unique in Wales and one of the most spectacular built in Britain during the Victorian Age. This carries you, at a sedate four miles an hour, up to the summit and the building housing Aberystwyth's Great Camera Obscura.

The man in charge of these tourist attractions is Bob Griffin. He was so impressed with the Board's floodlighting of Constitution Hill that he asked Allen Carr to prepare a scheme for re-lighting the Cliff Railway and for the electrical installation and floodlighting of the refurbished building at the top.

This meant another evening job for Allen and Clive to decide on what lighting was required and where the fittings should be placed to achieve the most dramatic results. Mr. Griffin

was on hand and when the scheme was agreed he gave the go-ahead for the work to be started.

This time it was craftsman electrician Colin Appleton who carried out the installation contract to Mr. Griffin's complete satisfaction.

"The Aberystwyth Camera Obscura with its 14-inch lens makes it the biggest in the world today," he told us. "The camera swings in an arc covering 355 degrees and, dependent upon the prevailing weather conditions, pictures landmarks up to 50 miles away. Some 26 mountain peaks and miles of coastline can be picked out."

Visitors to Aberystwyth — and local town-folk — taking an evening stroll along the wide sweep of the Promenade, can see the skillful floodlighting of the Castle at one end, and of Constitution Hill at the other. These attractions, designed and installed by MANWEB teams from Aberystwyth District, help to promote the town as a tourist venue.



Above is the picture reproduced by the Camera today's modern camera. The view shown is once again in the panoramic.

Working on the floodlighting installation we see Wintle, with craftsman

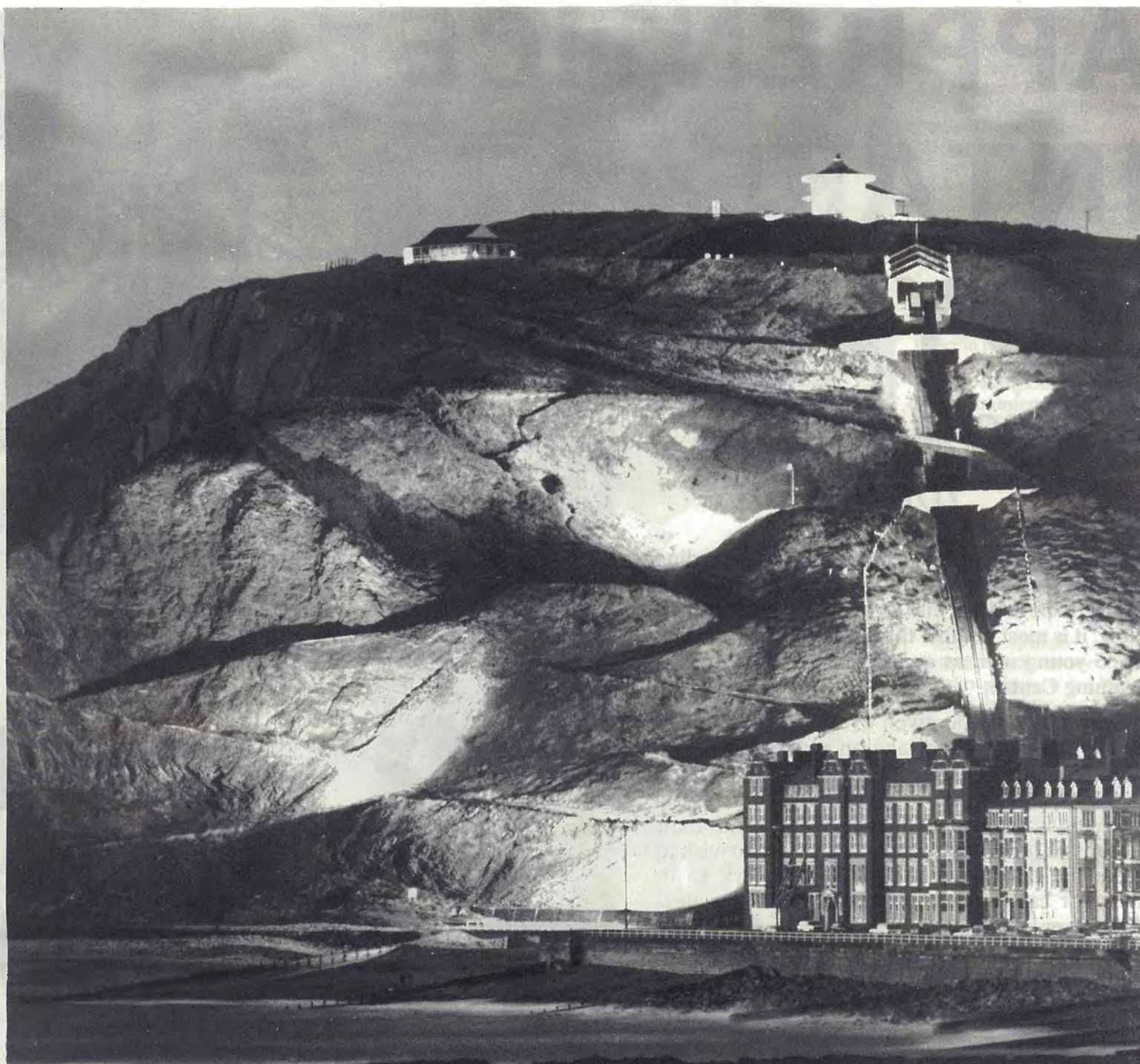


**THE PRINCIPLE OF
CAMERA OBSCURA**

If you darken a room on a bright day and admit a minimal amount of light through a small hole in the window shutter, an inverted picture of the scene in front of the hole will be formed on a white screen placed opposite the hole. The smaller the hole, the sharper the image but reproduction would be very faint on the screen.

To get a clearer, sharper image, a glass lens is introduced into the hole. Scientists once used this method to observe, indirectly, eclipses of the sun.

For the early Victorians, the Camera Obscura provided their first moving colour pictures — you could say their first TV screen!



Above: The impressive floodlighting on Constitution Hill (*it looks terrific in full colour*). The illuminated building on the top houses the famous Camera Obscura.

Below: This picture, taken from the top of Constitution Hill, shows the magnificent sweep of the Promenade at Aberystwyth. The Castle can be picked out on the far side.



bscura. It was photographed with its successor, the far end of the Promenade which can be seen in the photograph, bottom right.

from left to right: engineers Allen Carr and Clive Appleton, electrician Colin Appleton.



TRICT TRACTS

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"It was a great opportunity to take on advanced technology work and the valuable experience gained by a select band of people — in MANWEB's smallest District — will enable the Board as a whole to consider future work of this kind and compete with the best in the field," he concluded.

Attraction for visitors

Some time ago, colleagues from the District's Load Development section successfully floodlit the famous Aberystwyth Castle for the Ceredigion District Council. Their surveyor Bill Jones was delighted with the result and asked if a scheme could be prepared for the floodlighting of Constitution Hill at the other end of the Promenade.

To effectively illuminate this rocky outcrop with its variety of paths and bridges leading to its 430-foot summit, was a challenge which the Men from MANWEB could not resist. Arrangements were quickly made for the loan of suitable equipment from Thorn Lighting.

Then, one evening Commercial colleagues David Bennion, Allen Carr and Clive Wintle, armed with generators, cables, ropes and a tower-wagon, made an assault on the Hill. After hours of hair-raising sorties to establish sites for the lighting units, a suitable scheme was devised.

Because of the difficult, undulating terrain, it was decided to install six Thorn 1500-watt MBIL high-powered fittings mounted on steel columns. The scheme was submitted to Ceredigion Council early in July. With the return of their acceptance order they expressed a wish for the work to be completed in time for an official switch-on at the end of that month!

The two-man team from Lluest, Evan Pritchard (*foreman, Commercial*) and Dai Lewis (*craftsman electrician*) had the work completed in good time for the switch-on by a member of the Welsh Tourist Board. For Ceredigion District Council, Mr. Jones expressed thanks for a job well done.

For those who cannot face the climb up Constitution Hill there is the Electric Cliff Railway — unique in Wales and one of the most spectacular built in Britain during the Victorian Age. This carries you, at a sedate four miles an hour, up to the summit and the building housing Aberystwyth's Great Camera Obscura.

The man in charge of these tourist attractions is Bob Griffin. He was so impressed with the Board's floodlighting of Constitution Hill that he asked Allen Carr to prepare a scheme for re-lighting the Cliff Railway and for the electrical installation and floodlighting of the refurbished building at the top.

This meant another evening job for Allen and Clive to decide on what lighting was required and where the fittings should be placed to achieve the most dramatic results. Mr. Griffin

was on hand and when the scheme was agreed he gave the go-ahead for the work to be started.

This time it was craftsman electrician Colin Appleton who carried out the installation contract to Mr. Griffin's complete satisfaction.

"The Aberystwyth Camera Obscura with its 14-inch lens makes it the biggest in the world today," he told us. "The camera swings in an arc covering 355 degrees and, dependent upon the prevailing weather conditions, pictures landmarks up to 50 miles away. Some 26 mountain peaks and miles of coastline can be picked out."

Visitors to Aberystwyth — and local townsfolk — taking an evening stroll along the wide sweep of the Promenade, can see the skillful floodlighting of the Castle at one end, and of Constitution Hill at the other. These attractions, designed and installed by MANWEB teams from Aberystwyth District, help to promote the town as a tourist venue.

THE PRINCIPLE OF CAMERA OBSCURA

If you darken a room on a bright day and admit a minimal amount of light through a small hole in the window shutter, an inverted picture of the scene in front of the hole will be formed on a white screen placed opposite the hole. The smaller the hole, the sharper the image but reproduction would be very faint on the screen.

To get a clearer, sharper image, a glass lens is introduced into the hole. Scientists once used this method to observe, indirectly, eclipses of the sun.

For the early Victorians, the Camera Obscura provided their first moving colour pictures — you could say their first TV screen!



Above is the picture reproduced by the Camera Obscura. It was photographed with its successor, today's modern camera. The view shown is of the far end of the Promenade which can be seen again in the panoramic photograph, *bottom right*.

Working on the floodlighting installation we see, *from left to right*: engineers Allen Carr and Clive Wintle, with craftsman electrician Colin Appleton.



Above: The impressive floodlighting on (in full colour). The illuminated building Camera Obsc



APPRENTICE INTAKE AT HOYLAKE

Opportunities for fifty-five

IN the current climate of teenage tension regarding job prospects coupled with the sad fact that we appear to be drifting into an age of dwindling craft skills, it is most notable that MANWEB has taken on 55 young men as apprentices at the Hoylake Training Centre.

Here they will be given every opportunity to learn basic theory and take on practical work in crafts leading to a variety of trades. Well qualified instructors will guide them through their initial training. For the next three years or so, their progress is programmed to give those who wish to make the effort a thorough groundwork to fit them for careers as top tradesmen in the electricity supply industry.

Since the Hoylake Training Centre opened in 1956, well over 2,000 first-year apprentices have passed through its doors. Many who have qualified as tradesmen have gone on to take further study courses and are now working as senior engineers with our Board or with other organisations around the country.

The fortunate young men on this year's intake are as follows:

North Mersey District: **Graham Jones and David Wright** (electricians); **Peter Sutton** (electrical fitter); **Stephen Ryan** (joiner).

Liverpool District: **Gary Collings, Leon Dunn and Richard Hanna** (electricians); **Gary Dixon and Christopher Wilson** (electrical fitters); **Stephen Bebbington and Thomas Lane** (joiners). **David Berry, Robert Farrar, David Joseph, Ian Parr and Ian Pegram** (meter mechanics), **Graham Kelly** (motor mechanic).

Mid-Mersey District: **John Downie and Terence Lafferty** (electricians).

Dee Valley District: **William Humphreys, Robin Parkinson and Ian West** (electricians); **Andrew Davies and Michael Parr** (electrical fitters); **Richard Broadbent** (joiner); **David Jones** (overhead linesman); **Robert Evans** (motor mechanic); **Ian Bewley** (electrician telecommunications).

North Wirral District: **Timothy Broad and David Crosthwaite** (electricians); **Brian Gibson** (joiner).

Mid-Cheshire District: **Peter Garner and Andrew Oliver** (electricians); **John Dawson and Anthony Mills** (overhead linesmen).

Clwyd District: **David Evans** (electrician); **Colin Edwards, Nigel Jones and Carl Malbon** (overhead linesmen).

Gwynedd District: **Spencer Wells and Michael Williams** (electricians); **Dafydd Lloyd-Jones, Alwyn Roberts, David Roberts and Dewi Williams** (overhead linesmen).

Oswestry District: **Andrew Cliff and Andrew Jones** (electricians); **Andrew Coleman and Roger Evans** (overhead linesmen).

Aberystwyth District: **Edward Davies and Paul Williams** (electricians); **Jason Morgan and Laurence Springer** (overhead linesmen).

In addition, two, more mature members of the Board's staff, **David Lee**, living in our North Wirral District and **Stuart Ryan** from the Mid-Cheshire District, opted to take the apprentice entrance examination. They were successful and have joined the course. David was previously employed as a craft attendant in the Meter Test Station at Lister Drive. Stuart started work as a clerk before transferring to become a general duties assistant in the Engineering section at Macon Way, Crewe. Both men aim to qualify as craftsmen joiners.



Working for a future

- * Above: Lined up on the lathes we see, from left to right: Michael Williams, Tony Mills, John Dawson, David Roberts and Carl Malbon.
- * Left: Stuart Ryan, left, seen here with assistant storekeeper Geoff Dean.
- * Right: The tallest new recruit at six feet seven inches is Jason Morgan, seated left, working in the Electrical section with the youngest apprentice in the course, Robin Parkinson, who is just turned 16 years old.
- * Below: On the benches are, from left to right: Andrew Cliff, Andrew Oliver, Alwyn Roberts, David Evans, Brian Gibson, Spencer Wells and Paul Williams.



DURING the year 1984/85 there were 131 industrial accidents in MANWEB, each of which resulted in the injured person being off work for more than three days. This was 15 more than during the previous year.

The great majority of these accidents could have been avoided by taking care, for example when lifting things or by using tools correctly. As a result a great many hours, months - perhaps a year - of pain and suffering could have been avoided.

This month's 'Safety Scene' lists a few of these accidents. All illustrate how easily accidents can happen, but should never have happened!

- As he was digging a hole he was hit on the hand by a colleague's pick-axe.
- While picking up a cash bag from the floor to put into his van he strained his shoulder.



SAFETY SCENE

- While getting out of a van he dropped a jack-hammer on his hand.
- While alighting from the rear of a vehicle he tripped over his own overhead line equipment.
- While removing battens from a cable drum he tripped and trod on a nail projecting from one of the removed battens.
- Fell down the garden steps while walking to a customer's premises.

- When in a substation he stepped backwards and fell into a trench.
- He cut his hand while stripping a cable in an incorrect manner.
- While compacting the ground with a rammer, he compacted his foot instead.
- Sustained burns when a bucket of hot compound fell over after being placed on unstable ground.
- Working on a stepladder, he overbalanced.
- He cut into a cable which he thought was 'dead' with a chisel. It wasn't, and he sustained burns.

Not a single one of these accidents (all of which were painful and unpleasant) could be described in any way as an "Act of God". Every one was the consequence of human carelessness or error. The price of liberty has been described as "eternal vigilance". The same quality can go a long way to preserving a whole skin!

RETIREMENTS

Farewells to friends and colleagues

Mr. J. DOWNES

A LIFETIME of work in Liverpool came to an end for Jim Downes when he recently retired from his post in charge of the District Drawing Office.

Jim joined the former Liverpool Corporation Passenger Transport Department as an apprentice electrician in 1936. A few years later he joined the RAF and served in India and Egypt.

After the war, he returned to

Liverpool Corporation. In 1956 he took a job with MANWEB working as an electrician on substations.

Two years later he joined the Drawing Office staff at Head Office in Love Lane. On reorganisation in 1969, Jim went to work at Hatton Garden for a while before moving to Lister Drive.

In retirement he hopes to spend a little more time in his garden and later, will probably look for some voluntary work.

Jim and his wife Amy have two sons Peter and Paul, and four grandchildren.

Mr. C. W. H. VOSPER

SLIPPING quietly away into retirement, senior engineer Cyril Vosper, from the Head Office Technical section, has left after 23 years' service with MANWEB.

He joined the Board in 1962, after 14 years with the GPO, as a third assistant engineer with the former Area 4 at Rhostyllen, Wrexham.

He became a member of the Head Office staff in 1971 as a 2nd engineer, and, in 1974, became a 1st engineer and was appointed senior engineer later in the same year.

He is married and he and his wife, Joan, have a son and a daughter.

Mr. W. ROBINSON

A REQUEST for a 'fuss-free' farewell was honoured for Bill Robinson when the recently retired from his job as a meter operative based at Nothwich depot in the Mid-Cheshire District.

Bill joined the Board in 1950 and for the next 22 years worked as a general duties assistant. He then became a storekeeper for a short time prior to joining the meter reading team in 1975.

Colleagues subscribed to present him with cash to buy a gift of his choice.



Ken Wynne, centre left, is presented with a parting gift from colleagues by Stan Roberts (Assistant Chief Engineer).



Colleagues from our Liverpool District Drawing Office gather round as John Jones (Production Engineer) wishes Jim Downes good health and many years of happy retirement.



Ted Elcock, front right, received his final Long Service Certificate from David Crangle (senior engineer, Meter Test) on the occasion of his retirement.

FOLLOWING his service in the Army during the war years when he was stationed in the Far East, Ted Elcock returned home to Liverpool.

He joined MANWEB in 1952 as a meter mechanic in the Meter Test Station at Lister Drive. He stayed until his recent retirement.

Mr. E. ELCOCK

He is a keen photographer and a 'regular' in the 'CONTACT' annual photographic competition. He is also a traveller and a couple of years ago he returned to the Far East to spend a holiday in Malaysia where he was once stationed.

In retirement Ted hopes to take a trip on 'Concorde' to the USA and return home on the 'QE2'. Later he intends to pursue some night school courses.

Colleagues in the Meter Test Station subscribed to present Ted with farewell gifts of a pocket camera and binoculars.

A large group of friends gathered to say their farewells to Ray McDonald, seen here holding his "special" retirement card.



Mr. K. WYNNE

RETIRING after 45 years in the electricity supply industry, 2nd engineer Ken Wynne has left the Technical Drawing Office at Sealand Road.

It was as an apprentice electrician that he joined the Birkenhead Corporation Electricity Supply Department in 1940, completing his time in 1946. He was an electrical fitter for nine years, initially with the Corporation, and, after 1948, with the newly-nationalised MANWEB.

He moved into the Drawing Office in 1955 in the North Wirral District, was appointed to the Area Drawing Office at Chester, before transferring to the old Head Office in Liverpool in 1958, as engineering draughtsman. He moved back to Chester in 1970 with the Board reorganisation.

He has been a member of the Scouting movement for many years, and is a Group Scout Leader, and holds the Silver Acorn for his services to the movement.

Ken enjoys music and sings with the Philharmonic Choir. We also understand that he likes playing the violin for his own amusement. He likes rambling, bird-watching and has been known to dangle a rod over the side of a boat.

He is married to Mabel and they have three married sons. No doubt Ken will spend much of his time spoiling his grandchildren.

Mr. R.J. McDONALD

TAKING early retirement from the Technical Drawing Office at Sealand Road, 1st engineer Civil, Ray McDonald has completed 36 years' service with MANWEB.

He joined the Drawing Office staff as an engineering draughtsman in 1949 in Liverpool and moved to Chester in 1970. He served an apprenticeship before joining the Army during the 2nd World War, where he was a wireless operator in the Reconnaissance Corps. He worked for a private company and the Mersey Docks and Harbour Board before coming to MANWEB.

Ray is married and he and his wife, Lil, have three grown up daughters. He is a man of many interests. He was a founder member of the Head Office Sports and Social Club, and has been a keen sportsman, with football, swimming and table tennis being some of his sporting interests. He plays chess, likes gardening, 'do-it-yourself' and aero modelling. He enjoys listening to and playing music and dancing.



Foreman Bill Taunton, front right, seen here with Engineering Manager Bert Eyres.

Mr. W. TAUNTON

"I've had a good innings and worked with a great gang of lads," said Bill Taunton, when he recently retired from his post as foreman in the North Mersey District Engineering section. "I am leaving with so many happy memories."

Bill, who had completed nearly 40 years' service in our industry, was in the Royal Navy during the last war. He was based at Gladstone Docks in Liverpool, and the six ships in his group collectively destroyed 26 enemy submarines in their three years in the North Atlantic.

After this activity, Bill joined the former Liverpool Corporation Electric Supply Department

as a labourer, earning, at today's equivalent, ten pence an hour! After MANWEB took over in 1948, he progressed up the promotion ladder, working at various depots around Liverpool.

In retirement Bill will be spending quite a lot of his time at the Maritime Museum as a voluntary worker with Friends of the Albert Dock. He will also make more use of his caravan, which is sited at Rhuddlan.

A large number of staff from the NJIC block and the offices at Bridle Road gathered to pay their tributes to a popular man. They presented Bill with farewell gifts and their best wishes for a long and happy retirement.

SPORT

GOLF

THE climax of yet another successful season for the North Wirral Golfing Society came with their annual Championship and Captain's Prize competitions, both held on the Hoylake course.

With 22 members taking part, including three ladies, the championship was won by Bill Farrell, a craftsman joiner, who was a founder member of the Society in 1977. Prize winners in each of the three handicap categories were Bob Cook, Des Lock and Peter Clarke.

The Captain's Prize was won by Arthur Langley, a retired member.

All the awards were presented by this year's captain, Brian Warburton, a craftsman electrician.

TABLE TENNIS

TWO big wins were achieved by the MANWEB table tennis team at Crewe, when they completed the season at the top of Division Three, then went on to win the Benoy Shield in a knock-out competition.

The three-man team are now looking forward to some stiffer competition in the higher division next year.

BOWLS

AFTER a hard-fought knock-out contest with a dozen members of the Aberystwyth Sports and Social Club competing in their annual bowls contest, John McTavish (*craftsman overhead*)



Bowls winner John McTavish (*lines*) beat Tony Keevan (*meter operative*) in the final, to take the trophy.

FISHING

WELL down the field—*or should it be river?*—was the MANWEB team, finishing joint ninth out of 11 teams competing in the Electricity Supply Industry Annual Coarse Fishing competition, held a short time ago on the River Trent at Nottingham.

The East Midlands Electricity Board team won.

Once again, however, Mid-Mersey District's Norman Rawsthorne distinguished himself, and restored some MANWEB pride, by taking second place in his section.

THE Shark Angling Club of Great Britain has awarded its Welsh Trophy to Tom Bird, who works as a general duties assistant in our Aberystwyth District.

Tom caught the biggest fish in Welsh waters when he landed



ANNUAL GOLF TROPHY

The magnificent "John Greenhalgh Memorial Trophy" being presented to Martin Bazeley, *left*, by Don Scott on behalf of Nalgo. Also pictured, *from left to right*: Sheila Mosely (*Lady runner-up*), Maureen Patterson (*Lady winner*) and Kevin Gee, who shared the gent's prize with Andy Critchley.

a Porbeagle shark weighing in at 147 lb., while fishing from his own boat, the "Orca", off the Aberystwyth coast earlier this year.

DINAS Reservoir was the venue for the second annual trout fishing contest for members of the Aberystwyth District Sports and Social Club. Meter operative Tony Keevan won the trophy for the heaviest fish and Paul Ricketts, son of meter operative Tom Ricketts, was awarded the Junior Trophy.

FOOTBALL

A METER operative in our Oswestry District, Paul Hughes began this season playing for the Wrexham AFC reserves. A prolific goal-scorer for his local team Saltofix, Paul impressed Dixie McNeil, Wrexham manager, so much that he has been called in for first team training.

CRAFTSMAN jointer Paddy Jordon, from our Liverpool District, celebrated his 51st birthday by "playing a blinder" for the Jointers' team, when beating the Mates' team by six

goals to four in the annual football match for the "Golden Boot" trophy, writes our roving reporter, John Drew.

Twenty years ago, Paddy played for Earle United in the Liverpool County Combination.

In his recent match, he tormented the opposition defence, many of them 30 years his junior. Full-back Bobby Grimes was run ragged as Paddy created four of his side's goals.

Jointer captain Danny Burton made him "Man of the Match", saying he would certainly have regretted an earlier decision to leave Paddy out of the team—for being too old!

Alf Garnett look-alike, Paddy puts skill before speed. Throughout the game he had to suffer a number of dubious tackles from frustrated opponents.

His closing comments were: "If this is the standard of the opposition, I will be playing in this fixture for the next ten years!"

The goal-scorers were—Jointers: Tony Redhead (3), Tony Williams, Tommy King and Peter Flanagan; Mates: Carl Murray (2), Danny Cleary and Robert Smith.

We are still wondering if it really was Kenny Dalglish and Howard Kendall on the touch-line!

V.I.P. AT CAERNARFON

Popular Plaid Cymru M.P. for Arfon, Dafydd Wigley, *right*, on a recent visit to our Gwynedd District office, chats to, *from left to right*: Silwyn Parry (*clerical assistant*), Doug Willacy (*District Manager*) and Keith Jones (*principal assistant*).



Top marks for Malcolm

FOR gaining the highest marks awarded to any student taking the 'Marketing' paper in this year's examinations for the Institute of Purchasing and Supply, Malcolm Arthur, a clerical assistant in our Plant Supplies section at Head Office, was awarded a cheque for £25.

Successful student Malcolm Arthur, *right*, working here with Plant Supplies Officer Neville Hukin.



Malcolm is studying at the Carlett Park College at Eastham on the Wirral and sits for his final examination next May. With success, he hopes to become a Corporate Member of the Institute.

Shortly after joining the Board in 1973 as an Administrative Trainee working in the North Wirral District, Malcolm was successful in winning the MANWEB Regional Finals of the Electricity Supply Industry Public Speaking Competition on two occasions.

Ten years later, he was awarded the Silver Trophy when he won the public speaking competition organised by the Merseyside Branch of the Institute of Purchasing and Supply.

Malcolm is keenly interested in cinema and was one of the final four in the BBC "Film Buff of the Year" television series a couple of years ago.

GWYNEDD LJCC DATE CHANGE

The Gwynedd District Annual Conference has been brought forward by a day and will now be held on Thursday, 14th November, at Plas Menai, Caernarfon, commencing at 6.30 p.m.

MATRIMONIAL STAKES FOR BEAUX AND BELLES

CUPID struck twice in our Load Development section in Liverpool District, with Commercial assistants David Hayes marrying Sharon Wilson and Paul Dobson making Ruth Holmes his bride.

The ceremony for David—a former electrician in our North Wirral District—and Sharon was at St. Michael and All Angels Church in Hathersage in Derbyshire. The couple honeymooned in Dorset.

Leyland Parish Church was the venue for Paul's marriage to Ruth. This happy couple spent their honeymoon in the Yorkshire Dales.

We join with their friends in wishing both couples many happy years ahead.

OUR congratulations also go to a couple from Head Office who decided to 'tie the knot'.

John Townend, an Estates Officer, was married to Beverly Evans, a clerical assistant, at St. Mark's Church, Connah's Quay. After the reception at a local hotel, they left for honeymoon in Rhodes.

John and Beverly Townend
(Photo—Ian Davies, Prestatyn)



David and Sharon Hayes
Paul and Ruth Dobson



POPPY APPEAL

THE Royal British Legion Poppy Appeal has been operating for the past 64 years and, despite the fact that the Second World War ended in 1945—40 years ago—there has only been one year since then that a British serviceman has not been killed on active service.

Money from the Appeal goes to help the widows and disabled men and women who have suffered due to serving their country. One small way to show sympathy with them is to buy a poppy and wear it.

The Legion have recently presented "Certificates of Appreciation" to Dee Valley District. One went to the District for their efforts, and a second to Cecil Davies Barratt, a records draughtsman in the District, who for many years co-ordinated the Appeal in the District.

Obituary

IT is with sincere regret that we record the deaths of the following former colleagues.

Mr. John Hughes, aged 60, a craft attendant based at Caernarfon in our Gwynedd District.

Mr. Peter Glyn Jones, aged 41, a craftsman electrician based at Llandudno Junction depot in our Clwyd District.

Both men died suddenly.