The Sac newspaper

December 1987

First live link-up with the Antarctic

THE Australian Bicentenary celebrations start on January 1 1988 with a major television extravaganza, billed as the most complex presentation of all time.

The programme, transmitted live around the world and recorded by tw stations in countries with conflicting time-delays, notches up several 'firsts' including the first ever live link-up with the Antarctic—one of the major high-lights.

GEC Video Systems, based in Reading, Berkshire, has provided the technical equipment for this unique broadcast.

Going out in the UK on January 1 on Channel 4, the team of presenters, including Paul Hogan and Clive James, will be crossing over several times during the show to the Australian Davis Base to show life in the harsh regime and talk to its isolated crew.

Explore

The whole four hour programme will explore the many facets of Australian life and its 16 million people and will cross dramatically from the intense summer heat of a desert in Northern Australia to the freezing scenes of ice-flows and penguins in the land of the midnight sun.

OTC, the Australian Overseas Telecommunications Commission, purchased two videoconferencing codecs from GEC/Marconi Australia to enable transmission of live pictures and sound via satellite from the icy continent back to waiting tv studios.

Australia's own satellite
Aussat could not connect
up so far south so it will be
using Intelsat and the
cheaper digital transmission power offered by
videoconferencing rather
than the more expensive
analogue connections
used by television companies.

This is another of the programme's 'firsts' as videoconferencing has never been used by television for broadcasting and proves an interesting development of the Continued on page 4.

GEC Submarine Communications, has supplied its first submarine optical fibre cable to British Telecom. The contract is worth £1.3 million.

GEC Submarine Communications, set up in 1986, is a partnership between Telephone Cables, Dagenham, and the Power Cables Division of AEI Cables, Gravesend, to develop optical fibre submarine communication cables.

British Telecom Marine's cableship, m.v. Flexservice 3, laid the sea cable from Port Mora in Scotland to Donaghadee, County Down, Northern Ireland.

The sea cable was manufactured in one continuous 46km length and is protected by a double layer of armoured steel wire giving it design life of 25 years.

The optical fibres within it are protected from the effects of moisture, hydro-

GEC's first submarine optical fibre cable for BT



BT's Flexservice 3 ship laying the Scotland to Northern Ireland cable.

gen and radiation by a seamless metal sheath.

The new cable should give virtually fault-free communications with mainland Britain and beyond, because it is one of the first in the world to operate over a long range without the need for undersea boosters.

Praised

Northern Ireland chief executive, Alfie Kane, praised the speed with which the contract had been implemented. The cable was manufactured and installed by GEC Submarine Communications in less than six months, slashing previous timescales by almost 18 months.

Mr Kane described the new cable link as "a major milestone in the development of a new computerised telecommunications infrastructure that will make a major contribution to business life in Northern

Ireland."

Ruston in aero engine project

RUSTON Gas Turbines, Lincoln, has reached an agreement with General Electric of the US to participate in the development and manufacture of a new family of aero engines.

The GE38 engine is a highly fuel efficient, advanced engine producing 6,000 s.h.p. for both commercial and military

applications. It is derived from the GE27 modern technology demonstrator engine built by General Electric for the US Army.

Christmas Greetings to pou all

Production is due to start in 1989 and is expected to continue well into the next century. Over the next few years, Ruston will be investing some £20 million in sales and product development work in the United States and the UK. It is anticipated that Ruston's sales from this project will build up to at least £25 million annually.

Ruston is to manufacture a range of key components for the GE38 turboprop, turboshaft and turbofan engines. This will be done in a new, advanced technology manufacturing unit which Ruston has planned both for this work and for its own new gas turbines.

Other participants in the GE38 programme, include Garrett, Textron, Lycoming and Bendix, all of the US and leading names in the world aero engine industry.

Ruston is a world leader in gas turbine design and

manufacture with a range of industrial and aero derivative engines operating in 67 countries and has over 40 years experience in turbo-machinery technology.

This latest stage in the expansion of Ruston's business activity and its relationship with General Electric demonstrates its determination to strengthen its well established position in gas turbines. Ruston and General Electric are already collaborating in the sales and manufacture of industrial and marine series gas turbines as a result of earlier agreements.

In a joint statement, Kelvin Bray, managing director of Ruston Gas Turbines and Robert Turnbull, vice president of GE Aircraft Engines, Military Projects and Programs Operations said: "This latest agreement allows GEC and GE to build on the business relationship between the two companies and extend it into aero engine technology. We believe it could be the forerunner of other similar ventures."

Christopher Buck, technical director of Ruston, who has played a leading part in the GE38 negotiations over the past few months, and who will be responsible for Ruston's GE38 activities, said: "Participation with General Electric of America in this venture will broaden and increase the size of our business and our technology base."

GEC's interim results

'Skills will carry us forward'

Chairman

GEC's results for the six months ended September 30th, 1987, showed profits before tax of £284 million (1986, £275 million).

Otherwise satisfactory trading profits have been adversely affected by retrenchment costs in some activities where current and foreseeable demand indicates overcapacity, and the necessity to provide for cost overruns on a few major projects.

The units particularly affected by these factors include Industrial Controls, Electrical Projects, Mechanical Handling, Traffic Automation (in the Automation and Control Group), Telephone Division, GEC Computers, Norsk Marconi and Continued on page 3.

NATIONAL TRAINING AWARDS

Outstanding retraining programme gains Patron's Award for Avery

GEC-Avery, Warley, recently received a training award under the new scheme sponsored by the Manpower Services Commission (MSC).

The National Training Awards attracted more than 1,200 entries from which 60 winners were selected. These were announced at a ceremony hosted by the chairman of the MSC, Sir James Munn, and the Rt Hon Norman Fowler, Secretary of State for Employment.

At this ceremony, the patron of the National Training Awards, Sir John Harvey-Jones, also announced a special "Patron's Award" which was presented to three outstanding companies — one of which was Avery.

Avery received its award for a three year long retraining scheme involving 75 per cent of the workforce.

Over the last eight or nine years, radical changes in technology have meant that Avery has had to transform its product range from 95 per cent mechanical scales to 95 per cent



Sir John Harvey-Jones (left) presenting the Patron's Award to Tony Kirkman, Avery's deputy managing director.

sophisticated electronic weighing machines and systems.

To meet the demands of this new technology, nearly 2,000 people from all departments were retrained, including manufacturing, computing, design, development and service employees as well as overseas distributors and individual customers.

This retraining scheme has helped Avery to improve the quality of its products and service and to dramatically increase sales both in the UK and overseas. It has also enabled the company to enter new business areas such as EPoS, and servicing nonweighing equipment.

Avery's award, was featured recently on tv by the Channel 4 Business Programme.

News in brief

a business unit of Marconi diagrams are not available. Instruments, Scotland, recently announced a major Middle East order for TREE, (test and repair of electronic equipment).

The new automated system, with support, valued at over £1.5 million is a major breakthrough in a developing area.

TREE is its ability to produce test programmes and logies.

MARCONI Test Systems, fixtures when schematic

The system also provides facilities to automate many processes and management functions which are major cost and timescale considerations in the repair environment.

This system gives skilled repair operators and man-The key feature of agers the tools to cope with the most advanced techno-

GEC Traction, Manches- machines will be returned ter, recently received an to the GEC Traction order to refurbish six factory at Preston for diesel electric locomo- overhaul. tives of the Tanzania Rail- GEC Traction has way Corporation (TRC). already carried out suc-The locomotives were cessful life-extension originally supplied by refurbishment program-English Electric, in the mes for locomotives in mid 1960s.

locomotives' electrical Kenya.

Sudan and for similar Under the contract the locomotives to these in

MARCONI Commu- The transmitters will be

mitters.

nication Systems, installed at Toulouse and Chelmsford, recently are due to become operagained a contract to supply tional early in 1988. Once nearly £1 million of high commissioned, they will power, high frequency (hf) form part of the already transmitting equipment. extensive maritime The order placed by the communications service French PTT (Post, Tele- operated by the French phone and Telegraph), PTT, providing public and covers the supply of 30kW private communication and 10kW hf radio trans- with vessels around the world.

RUSTON Diesels, New- Projects Rugby, who are two Ruston 12RKCZ electric installation. engines for a new cableship Each engine is rated at being constructed by 2105 kW (brake) at 750 Swann Hunter (Shipbuil- rev/min and will drive a ders) Ltd for Cable and GEC Unipak generator, to

ordered by GEC Electrical system.

ton-le-Willows, is to supply responsible for the diesel

Wireless (Marine) Ltd. provide power for the The engines have been diesel electric propulsion

Sizewell letter of intent GEC Power Instru-

mentation and Control, a new company formed by GEC and CGEE ALSTHOM, Paris, was recently awarded a letter of intent from the Central Electricity Generating



Seated: Philippe Boisseau (left) and Douglas Gadd, signing the agreement to form GEC Power Instrumentation and Control. Also pictured are representatives from both CGEE ALSTHOM and GEC Measurements.

£4m contract in Bangladesh

Measurements wins

GEC Measurements, Leicester, recently secured a £4 million contract for a turnkey supervisory control and data acquisition (SCADA) system in Bangladesh.

The system, the first of and local sources. its kind in Bangladesh, forms part of the Greater Chittagong power distribution project being undertaken by the Bangladesh Power Development Board.

It will monitor and control the electrical power distribution in the port city of Chittagong in southern Bangladesh.

Finance for the project is being provided by the Asian Development Bank

The project is the first that GEC Measurements has obtained from Asian Development Bank funding, and it won it against competition from France, Switzerland and Japan.

Under the contract, GEC Measurements in collaboration with GEC of Bangladesh, will be responsible for all civil works, communications and switchgear modifications.

Board for the design of the central control system for the Sizewell 'B' nuclear power station. This integrated system

for centralised operation of the station will incorporate the main and auxiliary control rooms, the station automatic control system, the central data processing system and the communications and interface networks needed to link the central control to plant and local controls.

The agreement to form the new company, which is majority owned by GEC, was made in June between Douglas Gadd, managing director of the GEC Power Distribution Group and Philippe Boisseau, chairman and chief executive of CGEE ALSTHOM. Both companies are pleased with its early success.

Operating

GEC Power Instrumentation and Control, operating from the GEC Measurements' works in Leicester, will design and supply control and instrumentation systems for new and existing power stations in the UK and its export markets.

A GIFT of £1.25 million from GEC has enabled a new floor to be added to the Engineering Building at University College, London.

The new floor houses a new laboratory for opto electronics.

At the opening ceremony there was a display demonstrating collaboration in research and teaching between University College and GEC companies.

Derek Roberts, joint deputy managing director (technical) of GEC, described the endowment by the company as "enlightened self interest."

Angela Rumbold, Minister of State for Education and Science, who performed the opening ceremony, said such sponsorship by industry was the way the Government wanted to see "the fostering of excellence."

Pictured is Polina Bavel demonstrating opto electronic equipment incor-.. porating optical resonators to the Minister of State.

GEC fosters excellence





RING NOW FOR A QUOTATION

Contact Martin Keepfer on (0234) 40696

GEC's results for the first six months

Continued from page 1 Moteurs Baudouin.

Spend on private venture research and development remains high and amounts to £7 million more than in the six months to 30th September, 1986.

In the six months to 30th September, 1987, £430 million was spent on acquisitions, and the resulting trading profits consolidated in the six months' figures amount to £6 million.

Application of the exchange rates prevailing at 30th September, 1986 would have produced sales and pre-tax profits £60 million and £6 million higher, respectively.

The directors have declared an interim dividend on the Ordinary Shares of 1.80p (1986, 1.50p) per share payable on 31st March, 1988 to shareholders on the register at the close of business on 11th February, 1988. The cost of the interim dividend is £48 million (1986, £40 million).

Total order book outstanding at 30th September was £6,295 million (1986 £6,188 million); exports from the United Kingdom were £534 million (1986, £627 million); and net cash and short term investments amounted to £1,297 million (1986, £1,603 million).

In a letter sent to all GEC shareholders, Lord Prior, chairman said:

"At the annual general meeting, I referred to a developing positive trend in profits. I can now report that earnings per share for the first six months of the current financial year are nearly 5 per cent higher than those for the same period of last year; this compares favourably with the results reported recently by some of our competitors at home and overseas.

Striving

"Of course, we are striving to improve further on this level of achievement, particularly in those areas where performance fails to live up to expectations. In these cases, active steps are being taken to improve matters, but the outturn for the majority of our units is in line with their plans.

"Although £430 million has in recent months been disbursed on acquisitions, the company remains on the look-out for further opportunities which will help keep us on a growth track at a time when, for some of our businesses, market conditions may well be difficult.

"In the current financial design facilities.

year, we have announced a major joint venture in telecommunications with Plessey plc, a move which will strengthen the British telecommunications industry and its capacity to export. We expect this business to start operations early in 1988.

Finalised

"The joint venture arrangements between Philips of The Netherlands and our medical equipment subsidiary, Picker International, are well on the way to being finalised, and I am pleased to tell you that the partners made their first integrated presentation to customers at the Radiological Society of North America exhibition in Chicago.

"The company is leading the British consortium for the Channel Tunnel high speed train, which is to be built in conjunction with Alsthom of France. In addition, through Ruston Gas Turbines, we are participating with General Electric of the United

States and other leading American companies in the development and manufacture of a new family of highly efficient aero engines. This will bring additional work to our factories and broaden both our product and technology base in this field.

"Two particularly important major contracts won recently were the first development stage of the new anti-jamming radio for the United States Navy, in conjunction with Rockwell International; and, at home, in partnership with Alsthom of France, the instrumentation and control systems for the new Sizewell nuclear power station.

"Despite the difficulties and setbacks which nowadays seem to be an integral part of industrial and commercial life, I remain confident that the company's resources and skills will carry us forward to the realisation of our ambition for profitable expansion during the years ahead."

important defence supplier"

AT GEC Avionics, Rochester, Britain's chief of defence procurement, Peter Levene, recently opened an advanced manufacturing plant for holographic optics.

Known as the Falcon Building, it has been specifically designed and built to manufacture optical elements based on holography. Holographic elements are now being used by GEC in the latest electronic cockpit displays for American fighter aircraft.

GEC Avionics is currently carrying out a \$72m production order, received last year, to equip General Dynamics F-16 Fighting

Falcon aircraft with holographic head up displays. These present clear displays of information to the pilot over a wide field of view and are an invaluable aid to safe night flying. This US order is the world's first for volume production of this type of equipment.

Mr Levene praised GEC Avionics' successful work on holographic displays and instruments. He said: "The development work done here has turned scientific curiosity into a commercial success, and put holograms to work in a field where they have revolutionised existing techniques.

'GEC Avionics has shown its skill as exporters as well as innovators. They

remain nonetheless an important defence supplier at home and I hope that the MoD can look forward to the company's continuing commercial and technical success in winning our business in the future."

9 \$10m ATE order

GEC Avionics, Rochester, recently received a \$10 million order for automatic test equipment (ATE), for use by the United States Air Force



Peter Levene (centre), with Ron Howard (behind), managing director of GEC Avionics, and Fred Mackley (right), divisional manager, being shown the company's latest computer aided

	1987	1986	1987	1986
	£m	£m	£m	£m
	Profit		Turn	over
The Residence of the Land	Ta	ıx		
Electronic Systems &	La la maria		100	Ann Market
Components	87	77	930	923
Telecommunications &	Para Para		245	244
Business Systems	30	32	347	366
Automation & Control	15	22	230	209
Medical Equipment	6	9	179	194
Power Generation	22	23	261	314
Electrical Equipment	25	19	349	339
Consumer Products	24	16	249	179
Distribution & Trading	6	6	101	104
Other Activities	(5)	(3)	39	49
	210	201	2,685	2,677
Income receivable, less interest payable, from loans, deposits and			SVONUE FOR	
investments	67	69	THE PARTY.	Sanda (Sanda)
	277	270	2,685	2,677
Intra Group cales			158	166
Intra-Group sales				
	277	270	2,527	2,511
Associated Companies	7	5	PARTY THEF	ARIL PROPERTY
	284	275		
	Pro	fit	Turn	over
	by Ter			rritory
	of O			ination
United Kingdom	146	145	1,458	1,338
Rest of Europe	28	24	332	315
The Americas	26	25	439	441
Australasia	6	4	124	105
Asia	3	2	252	387
	1		80	91
Africa	1	-		
Africa	210	201	2,685	2,677

The advanced equipment will be used in repair depôts throughout the US to service a new range of aircraft computers, also which is based on its made by GEC Avionics.

The ATE, to be designed and manufactured by the company's Automatic Test Equipment Division, will meet the latest, officiallypublished USAF guidelines for automatic testing. The USAF concept, known as MATE (modular automatic test equipment) will achieve cost savings

through standardisation.

GEC Avionics is to fulfill the contract with a modular design, the operation of commercially-successful ORION ATE.

Versions of ORION, are used in GEC Avionics' own production facility, to test the same range of airborne computers, known as SCADC (standard central air data computers), designed for re-equipping 39 different types of USAF and USN aircraft.

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£24 million Avionics' contracts aid navigation

GEC Avionics, Rochester, has developed an airborne computer which can reproduce colour maps in the cockpit and it has been selected for the RAF's latest Harrier, the GR.7.

The solid state digital colour map unit (DCMU) can store an area the size of Europe in one avionics box.

The order which is worth over £7 million, was placed

by the Ministry of Defence (PE) and is the world's first for such a solid state mapping system.

The new navigational aid has been developed over several years using experience gained in flight testing in the UK and the US.

The unit derives its data from conventional paper maps which are digitised from separate feature

planes. These can be modified to delete unnecessary information and can also be colour modified to suit ambient lighting conditions, compatibility with night vision goggles being a major consideration.

The map displayed to the pilot moves in relation to aircraft position and at the touch of a button can zoom the map to show either more detail or a larger area.

The system has considerable export potential DCMU worldwide.

GEC Avionics has also been selected to supply a new ring laser gyroscope navigation system, which will help pinpoint targets accurately for the Royal Artillery.

The azimuth position and elevation system tracked vehicles.

Foxhunter radar.

Foxhunter is Britain's

first pulse-doppler radar,

track subsonic and super-

sonic targets at extensive

altitudes of about 10,000 ft

against targets at 250 ft

Both firings were from

(APES) will be supplied to GKN Defence, Wolverhampton, for integration in the Army's Warrior observation post vehicle. The order, worth over £17 million, is the first to be placed for a British Army equipment based on ring laser gyros.

GEC Avionics has established an exclusive licensing agreement with Honeywell Inc. to incorporate the US company's mature ring laser technology into a range of products, including this British Army system.

APES is based on the Honeywell H726 dynamic reference unit and in conjunction with a GEC Avionics control and display unit, and a laser rangefinder, processes input signals and GEC Avionics is to give the necessary already demonstrating the vehicle position information to enable targets to be located accurately.

As APES will have none of the moving parts used in conventional gyroscopes, it can ensure reliable information despite the harsh shock and vibration conditions encountered by

Foxhunter success

THE RAF's first Tornado F3 unit, recently

completed two successful firings of the Sky-

flash missile using Marconi Defence Systems'

Historical computers GEC Computers' manag-

Paul Rayner (centre) presenting the early military computer to

the Science Museum. It is being received by the keeper of

engineering, Dr John Becklake (right) and the curator of

ing director, Paul Rayner, recently handed over two of the company's early military computers to the London Science Museum's computing and data processing collection.

computing, Doron Swade (left).

Dr. John Becklake, keeper of engineering, accompanied by Doron Swade, the curator of computing, received the machines on behalf of the museum. The computers fill a gap in the collection in which military computers are under-represented.

Commenting on the

acquisition, Doron Swade said: "These machines are a welcome addition to the museum's computer collection for a number of reasons. Given the size of investment in military computers and the impetus that military requirements have given to technical developments, these machines are of historical and technical significance. The continuity of the manufacturer provides a valuable reference for a time-line study in computer design from its earliest (commercial) electronics origins."



RUSTON Gas Turbines, Lincoln, recently received a £1 million order for a Nomad 5 mobile power station and managed to despatch it within five days to Papua New Guinea.

When it arrived the 3.5MW Nomad was used to provide power for production equipment at the Ok Tedi gold mining company, based in the country's Western Province.

The Nomad 5 runs without external power using gaseous or distillate fuel. It is based on the TB5000 industrial gas turbine, enclosed in a single 55 tonne, 15 metre long articulated trailer, which can be moved from one location to another as and when required and be made operational within 24 hours of arrival on site.

NEWS IN BRIEF

radar, designed and manufactured by Marconi Radar Systems, Chelmsford, has recently been accepted into service by the Royal Air Force for deployment at four stations as part of the Improved UK Air Defence Ground Environnent.

The Martello S723 gives continuous range, bearing and height (up to 150,000 feet) of small targets to ranges in excess of 250 miles.

Martello incorporates a number of significant technical innovations which, in benefits of low cost and The Queen's Award for the operator.

THE Martello S723 3-D Technological designed to detect and Achievement.

Following a collaboration between the Mal- ranges at high and low aysian Department of Civil level. Aviation, Computer Base (M) of Kuala Lumpur and Marconi Radar, a low cost flight progress strip system was recently announced.

The FPSS system, which uses stored data on FIR (flight information region) routes and flight schedules, provides flight strip printing, calculation of air navigation charges to Easily transportable, permit rapid invoicing and traffic movement statistics.

The FPSS also has the 1986, were recognised by increased productivity to

MARCONI Test Systems, a business unit of Marconi Instruments, Scotland, recently delivered four Tempest test systems, worth over £1 million, to the Supreme Headquarters Allied Powers Europe (SHAPE) at Mons, Belgium.

The systems are used to detect compromising electronic signals from equipment, buildings and installations so

that leakages can be identified. Three of the Tempest test systems are transportable and

will be used in buildings and installations throughout NATO in Europe. The fourth system will be used for in-house testing and for training at SHAPE's headquarters in Belgium.

TELEPHONE Cables means that costly interrup-(TCL), Dagenham, has tions to the power supply successfully completed during installation and installation of the first maintenance are avoided. totally non-metallic, self- Developed to meet the line.

nications network.

electrical conductors the cable.

supporting cable to be stringent safety standards strung along a live power set by the electricity supply industry, TCL's Translite The Translite cable, cable contains up to 24 installed on a 132 kV grid fibres transmitting voice, tower system by contrac- image, text and data at up tors Clough Smith Ltd, will to 565 M/bits. A specially be used by East Midlands designed outer sheath Electricity Board as part of minimises tracking and their internal telecommu- provides protection against hostile climatic conditions, Translite's complete ensuring a long independence from the maintenance-free life for

height. The successful shots are important milestones towards this month's introduction of the first operational F3 Squadron into NATO.

link-up

Continued from page 1. medium which has rapidly gained ground as an essential communications facility for the international business community.

OTC has spent more than \$1/2 million on equipment for the Antarctic link, building special containers for the GEC Codec (digital signal coders/decoders) and camera facilities so everything could be shipped across safely on the ICEBIRD supply boat which left in October.

Transmitted

The digital signals from the codec will be transmitted via Intelsat across to an earth station at Ceduna in Southern Australia, fed to a codec and then de-coded by an OTC converter in Paddington, Sydney, to analogue signals ready for tv reception.

Says Jan Land, project co-ordinator, in Sydney: "The Antarctic link has undoubtedly become the talking point of the whole show as nothing like this has ever been done before. There is going to be great drama here and it will prove fascinating viewing wherever you live in the world."

Lighting for Stolport | Avery self

THE Airport Division of GEC Electrical Projects, Rugby, has developed unique landing aids for the new London City Airport.

This STOL (short take off and landing) performance airport requires aircraft to approach at two and a half times the normal approach angle, that is a 7½ degrees aircraft path.

GEC Electrical Projects has equipped the airport with runway edge elevated fittings, inset pavement units and approach aids which all utilise the company's latest range of luminaires. These provide unique light beam characteristics, but at the same time utilise low wattage energy saving lamps.

Futher lighting systems have been installed on the taxiways to provide aircraft route guidance to the terminal. Circuit cabling has been considerably reduced with the incorporation of new GEC electronic static switches.

First Satchwell BAS sold to Hong Kong

SATCHWELL Control Systems, Slough, recently sold its first BAS (building automation system) to Hong Kong, for a new telephone exchange.

The initial stage of the contract is for a BAS 700 system with seventeen outstations in the main the system will ensure the efficient working of a in storage tanks, lighting, electricity consumption,

transformer, fire services and security. If the supply fails, stand-by generators can be brought into use automatically by the BAS

Extend

There are plans to extend the monitoring by autonomous outstations exchange building, where in outlying exchanges. Each will administer its own building, but when a comprehensive air condi- setting change has to be tioning and ventilation made, or date collected installation. Other items for central analysis, the monitored are water levels BAS will establish contact with each outstation in turn over a telephone line.

AT PRODUCE counters, many customers prefer to select their own goods to ensure that they get the best quality items. However, this means that an assistant has to be stationed permanently at a scale.

A new electronic customer self service scale from W&T Avery solves this problem and provides a simple, secure and costeffective method of weighing and pricing a customer's purchases.

The A103 scale features 47 large and pictorially labelled keys which represent individual product lines, an alpha-numeric display and a side-mounted bar code printer.

The customer simply selects a produce and, prompted by instructions on the display, seals the bag, places it on the scale and presses the appropriate product key.

The scale will automatically show the correct price, product description and weight and will issue a self adhesive bar coded label to be attached to the goods.

To ensure a high level of security, the scale will not operate until the bag has been securely sealed.

The scale will also issue management information, including grand and product totals.

A TEAM from GEC Telecommunications, Kirkcaldy, recently won this year's Scottish regional finals of the TECCOM competition run by the Engineering Industry's Training Board.

Apprentices John Glencross, Wallace Henderson and Craig Polatajko designed, developed and manufactured a temperature profile recorder for the flow soldering process, a

Apprentices' design wins first place in TECCOM competition

technique used in the electronics industry.

The team's project, which had a materials budget of £500, was also highly commended for its well structured report.

The project will now go forward to represent Scotland in the national finals in January.

TECCOM was set up to assist in improving standards of training within the engineering industry, and to improve the image of the engineering industry among people who influence school leavers in their career choice.

At the regional finals the GEC team also won the Institution of Electrical and Electronics incorporated engineers award.

This award is presented to the project which is deemed to have the greatest emphasis on electrical and electronic concepts.

Pictured from left to right John, Wallace and Craig.

CREDA, Blythe Bridge,

ese design award for its

The heaters beat off

worldwide opposition to

gain the Good Design

Award, presented by the

Japanese Ministry of

International Trade and

Industry. This is an annual

award introduced in 1957.

Imported products have

heaters.

for the award only recently.

The Good Design

appearance, user benefits, safety, performance, economy in use and the total concept of the product.

The award was presented in Tokyo to Nozomu Waki, managing director of Mitsui Sapporo, Creda's agent in Japan and the world's

largest trading company. Creda started marketing the heater in Japan earlier this year but particularly in northern Japan where winters are severe.

Brian Powell, managing director of Creda said: "This is a major breakthrough in a tough market. Japan is a new market with great potential and this award puts the Japanese stamp of approval on our products. The award is especially notable as it has been made to a product that is still almost unk-



NEWS IN BRIEF

mation system.

It is for BP Oil's new headquarters being built at Hemel Hempstead, Hertfordshire.

For £800,000 Satchwell is supplying, installing and commissioning one of its BAS 700 Series 3 building automation systems trolled.

SATCHWELL Control together with 60 out-Systems, Slough, recently stations, additional prinreceived one of its largest ters, two portable field orders for a building auto- consoles for local interrogation, 33 motor control panels, colour graphics screen and 1,360 electrically and pneumatically operated motorised control valves.

> In all, 3,500 points of the heating and air conditioning system will be monitored and/or con-

MARCONI Communication Systems, Chelmsford, has received an order from the United Kingdom Atomic Energy Authority Culham Laboratory, for the second phase of a project connected with particle beam acceleration.

In the first phase, Marconi provided a design specification for a one megawatt radio frequency source which was completed earlier this year. Culham Laboratory has now contracted the company to design the equipment, bringing the total value of the task, to date, to almost £750,000.

A third phase will be to construct, install and commission the equipment.

of 'HMS Norfolk', the first Colchester by APV Hall in the class of new Type 23 Royal Navy frigates, at Yarrow in Scotstoun.

HMS Argyll, Lancaster special warships. and Marlborough have been ordered by the Min-tions on-board are engine istry of Defence and are room supply; machinery now under construction.

axial and centrifugal, was units.

LAST July saw the launch awarded to Woods of International of Glasgow, who design and install the various marine air condi-Three further vessels, tioning systems in these

Amongst the applicaspace ventilation; smoke The fan content, both clearance and air filtration

CINCINATTI Electronics, US, recently opened its new high-tech facility in Mason, Ohio.

The ultra-modern structure will house Cincinatti Electronics' growing aerospace division. Approximately half the 93,000 square feet of floorspace is dedicated to eight sophisticated laboratories designed for advancedtechnology research and development work.

The new building took two years to complete and cost \$10 million.

Japanese design award recently won a top Japanslimline electric storage

been allowed to compete

Award is for any consumer durable, not just electrical products. Judges from the ministry base their assessment on styling and

GEC Avionics' world production record

AT A recent ceremony at GEC Avionics' Airport works, Rochester, the 1,000th unit in a new range of aircraft computers was handed over to the US Air Force. The computers have been in production for only one year.

The 1000th standard central air data computer (SCADC) was accepted on behalf of the United States Air Force by Colonel Raymond A Shulstad, deputy commander for aeronautical equipment, Aeronautical Systems Division, Air Force Systems Command, Wright-Patterson Air Force Base (pictured left). It was presented by Ron Howard, managing director of GEC Avionics.

Nearly 4,000 of the computers are being built against fixed-price orders now totalling some \$135 million, GEC Avionics having won all three of the production orders so far placed for SCADC.

The company's Instrument Systems Division, Rochester, is currently delivering the units at a rate of 120 per month. This is a record for such equipment.

already sales are growing, nown in the Far East".

GEC link ups in Australia and Italy

GEC Australia's teleconferencing equipment will help the Victorian Government save an estimated \$20 million a year when its VISTEL telecommunications network is fully established.

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The network began operations recently with a new video service linking Melbourne with Ballarat. It allowed the Planning Appeals Board to hear a case in Ballarat whilst sitting in Melbourne.

Advantages

The Victorian treasurer, Rob Jolly, who opened the new facility said the appeal by video conference had a number of advantages.

He said on-site inspection by the Appeals Board and a subsequent hearing would involve travel and overnight accomodation worth \$400, plus considerable travel time while other cases could be heard in Melbourne.

The new system ensured improved Government services to country areas and improved public access and participation. It can also be used to hear evidence and cross examine witnesses,

provide specialised training programmes to staff in country locations, allow doctors to diagnose patients in remote centres and for public hearings, Government conferences and business meetings.

Users of the VISTEL network will include the Victoria police, the Education Department and the Health Department.

Marconi Italiana's video-conferencing equipment was used by the Ministry of Defence (MoD) in Italy in the wake of the recent flooding.

When torrential rain caused a state of emergency in Valtellina the MoD approached Marconi for three GEC video codecs and a multipoint control unit, linking its Rome headquarters simultaneously with troops in Milan and the stricken area around Sondario.

MoD staff were given up-to-theminute information on the emergency and were able to direct troops to the areas of need.

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Nairobi Trade Fair

GEC aids Kenya's future development

GEC recently demonstrated its extensive involvement and some of its potential expertise for Kenya at the Nairobi Trade Fair, the largest and most prestigious fair in East Africa.

The exhibition attracted some 300,000 visitors. The President of Kenya, Daniel Arap Moi, with his guest of honour President Kenneth Kaunda of Zambia, officially opened the fair. Peter Bottomley, Parliamentary Under Secretary of State, Department of Transport, also attended the exhibition and visited the GEC stand.

Since independence, Kenya has received almost £500 million in official aid from Britain. In response to a Kenyan Government request some years ago donors were asked to direct aid to particular areas of the country and to specific economic sectors. British bilateral aid now concentrates on agriculture, education, energy, manpower development, transport and communications.

It is in many of these areas that GEC companies have become increasingly involved.

Transportation

Railways are a vital component in Kenya's transportation system. The Class 87 locomotives built by English Electric between 1960-67 have hauled goods and passengers across millions of kilometres. English Electric diesel engines (now Ruston Diesels), have been in service on some of Africa's most demanding tracks.

Navy

Kenya Ports Authority's tugs at Mombasa harbour are powered by Ruston Diesels. Paxman Diesels

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power some of the Kenyan Navy's fast patrol boats.

Marconi Radar has supplied systems to the Kenyan Navy and its mobile surveillance radars are used by the Kenyan '82 Airforce.

When completed, the dams at the Kiambere hydro-electric power project on the Tana river will

create a reservoir 17 kilometres long. Water will flow via the powerhouse to generate 140MW. GEC Switchgear's open terminal SF6 circuit breakers are supplied for the 220kV and 36kV substations. GEC Transformers are in the process of supplying 132kV transformers to the Kenya Power and Lighting Co.

It is the intention of Kenya Posts and Telecommunication Corporation to bring telephone services to each and every Kenyan. GEC Telecommunications has provided 75 exchanges



Kevin Hughes, GEC Group Exports, presenting Sam Gichuru, managing director of Kenya Power and Lighting with GEC Measurements' book on relay protection.

and has contracts for 34 M/bits radios and two M/bits digital line systems to interconnect its UXD5 rural telecommunications system, which is being used in several townships.

GEC Meters, recently acquired an order for 1,500 Transva polyphase kVA maximum demand meters from the Kenya Power and Lighting Co.

GEC's participation in

the Nairobi Trade Fair further emphasises the depth of GEC's involvement in Kenya and outlines its potential for aiding the further development of the country.

Osram's packaging investment brings exciting new lighting

OSRAM-GEC, Wembley, has recently invested in excess of a million pounds in updating its production techniques and introducing new equipment, creating "new look" packaging and instigating an energetic advertising campaign.

Since the early 1900s, Osram has been a leader in its field and even in the early days of its existence, the company was progressive in its approach to both the retailer and the consumer. Osram was the first company ever to run national newspaper and poster advertising for a light bulb.

Nowadays, Osram produces over 70 million household bulbs every year, covering a wide range of products which cater for the needs of a demanding market, where lighting now plays an integral part in interior design.

Because of this important new attitude towards lighting, Osram's idea was to introduce packaging setting its products apart from those of its competitors, and providing a distinctive market identity.

Progression

Osram's marketing manager, Alan Parry, said: "Our new designs are a logical progression aimed at making product identification far simpler for purchasers."

Before Osram could create new packaging, it had to completely rethink its production processes. The production team had to solve the problem of creating an efficient system which could cope effectively with the new demands of modern packaging techniques.

Utilising its overall resources, the production team made extensive changes in order to introduce the most up-to-dateequipment and to achieve



New packing machines and roller conveyor belts.

maximum efficiency.

With the aid of helpful floor, the team gutted the packaging area and increased the floor space by 20 per cent and with a clear concept of layout, brought in new labelling and bundling machines, carton machines and an £80,000 blister packing machine.

New powered roller con-

veyor belts were introduced, transfer of staff suggestions from the shop increased personnel in the area by 50 per cent and an advanced system of computer management came into operation, improving customer response levels.

> Osram was able to move away from the traditional form of sleeve and end packaging, introducing

colour coded cartons, cut out boxes for specialist bulbs and blister packs for twin candles, colour bulbs, reflectors, pygmy bulbs, for small domestic fittings, and Fireglow bulbs for domestic fire appliances. The strong, self-standing blister packs are an important innovation in lighting packaging, ideal for customer selection of bulb types where there is a wide choice of cap, finish and colour.

Advanced

Osram Extralite and Filtalite cartons are colour coded by wattage: orange for 150w, blue for 100w, green for 60w, mauve for 40w and feature advanced graphics, clearly indicating the type of bulb (clear, pearl or mushroom). User advice is prominently displayed on the cartons.

Extralite and Filtalite bulbs have also been given a more distinct appearance. Extralite packaging now has a strong, dark background colour while the



Filtalite — with its softer light — has a toned down shade of the same colour.

High-quality

Decorative bulbs, such as reflectors, globes and candles are presented in high-quality silver cartons, most with a cut-out on one side, enabling instant product identification and blister packs add to the high quality packaging for specialist products.

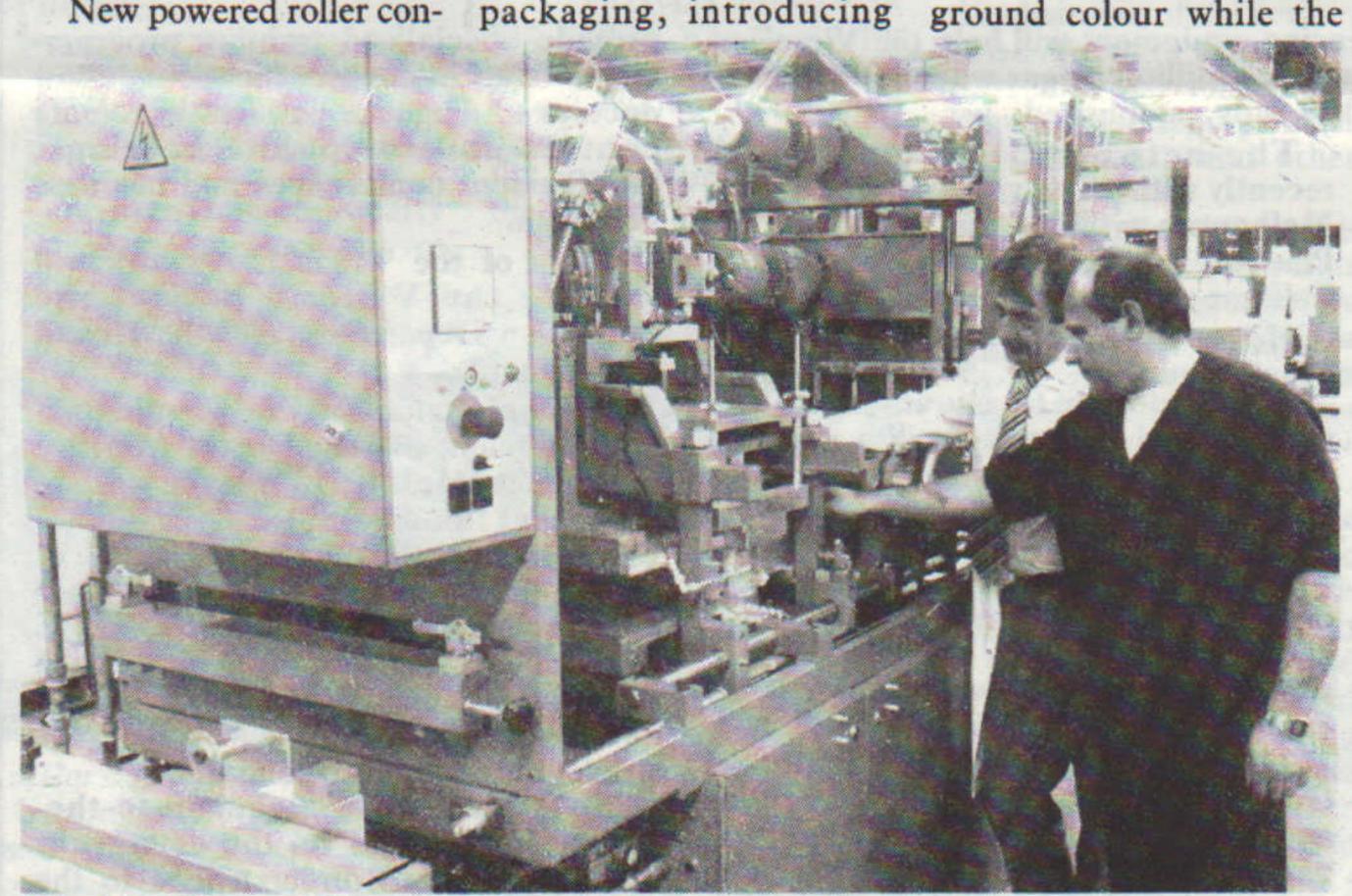
The new packaging is reinforced by substantial display stands, which Osram believes will benefit retailers at the point of sale.

Osram is convinced that this new packaging will enhance the company's reputation as a market leader. Its new advertising campaign is also aimed at keeping Osram ahead of its competitors, by making the consumer more aware of its products and therefore more selective in his purchase.

Osram's new advertising campaign includes highlighting its products in the trade press and also in inserts in such magazines as TV Times and Ideal Home. A 12 page full colour consumer brochure, which offers a comprehensive guide to transforming the home through the use of clever and inventive lighting has also been produced.

Details

For further details of the consumer brochure, please contact: Lynn Hartley, product manager marketing, Osram-GEC, P.O. Box 17, East Lane, Wembley, Middlesex HA9 7PG.



The £80,000 new blister packing machine.

Caribbean adventure

Marconi designer's golden opportunity

STEVEN Powell, a PCB designer in the computer aided design department of Marconi Communication Systems, Chelmsford, recently returned from a month-long visit to the Caribbean—probably the most testing four weeks of his life.

In 1986, Steven applied to take part in the Duke of Edinburgh International Gold Award holders training course. After an arduous test and interviews Steven was chosen as one of two Eastern region representatives. In total 16 UK representatives went to the Caribbean along with 82 other young people from 22 countries around the Commonwealth.

On one occasion on the

first part of the trip, Steven took part in the festivities of the Cropover Carnival and on another he sailed around part of Barbados on a 10ft catamaran. Steven also visited Harisons' Caves, an amazing cave system of stalagmites and stalactites, which are often over 100ft high. In one area the stalagmites have been convincingly lit to resemble the sky line of Manhattan.

The second phase of the



Steven (front far left) and some of his group stopping for a rest on St. Vincent.

baked beans.

again.

a diet of corned beef and

the island the group came

across a volcano called La

Soufrière. The group

battled their way through

the jungle to the summit of

the volcano, which is over

3,000ft high, and then

descended to the other side

where they encountered a

river. They waded through

the waist-high water in

order to pick up their track

place in the Grenadines.

Steven and his group were

The third phase took

At the northern end of

Greenland — the arctic wilderness



Simon Whipple in Greenland.

A FOUR man team led by Simon Whipple, a systems engineer in the Systems Engineering Division of Easams, Camberley, recently spent three weeks exploring in north east Greenland.

The trip, which was partly sponsored by Easams, was in three parts, it consisted of exploring the Roscoe Bjerge range of mountains, visiting a remote Eskimo settlement and a 60 mile cross-country hike.

The team arrived in Greenland at Constable Point airfield. After crossing the Hurry Fjord, with the help of an Eskimo, the group set out to climb Mount Tvillingerne. At 1400m, it is the highest peak in the area.

Due to an abnormally high snowfall last year, the climb was difficult and dangerous. After two attempts to reach the summit, the party set off across glaciers, rivers and mountains on the 30 mile walk to Scoresbysund village.

The village was only discovered in the latter part of the nineteenth century and is presently battling through the transition from a Stone Age to a modern community.

The settlement has a reputation for violence and in 1986, 12 violent deaths occurred in the village which has a population of only 400.

Despite the violent lifestyle of the Eskimos and their supposed animosity towards Europeans, the Easams party found the natives to be generally friendly.

On two occasions the Eskimoes treated the party to a meal of freshly caught salmon. On another occasion, the group were given a local delicacy of

walrus stew, which Simon Whipple said tasted like "rotten beef" and that it was "a never to be repeated experience."

The Easams group felt both "privileged and saddened" to see this comunity before it was too late. It is one of only two settlements in east Greenland and it is one of the remotest villages in the world.

The Eskimo way of life is changing rapidly. The opposition of Greenpeace has meant that traditional forms of income, which result from polar bear and seal hunting, have been wiped out. The community now relies on Denmark to support it.

If oil is exploited in the area, the influx of thousands of oil personnel will swamp the Eskimoes and destroy the traditional structure of the ancient community.

From Scoresbysund, the group walked to Lillefjord on the east coast. By this stage of the expedition it was late August and the group began to notice the transition from the arctic summer to winter. An arctic fox was seen changing from its brown summer coat to its white winter camouflage. There were night frosts and snow began to fall in the nearby Stauning Alps.

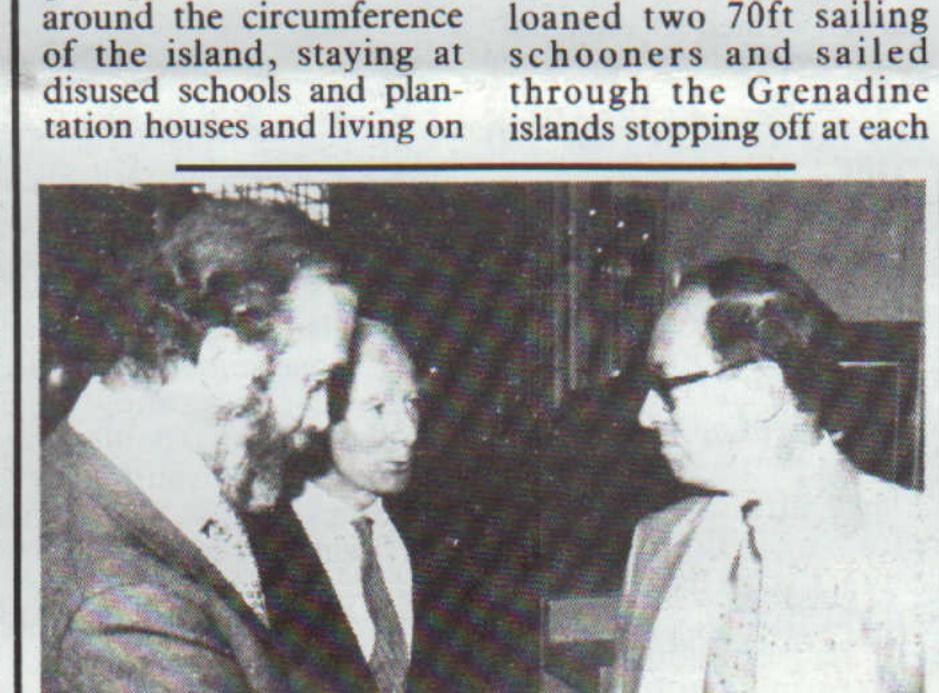
The 60-mile hike back to Constable Point was the most hazardous part of the expedition, as dozens of rivers had to be crossed.

The major obstacle was crossing the mouth of the Ryders Elv river at the north end of Hurry Fjord, which was almost three miles wide.

The crossing was timed for early morning when the tide was out. Roped together the group towed each other across against the fast current suffering the icy water, which was sometimes chest deep. Occasional patches of quick sand made walking very difficult, especially when carrying 50 pound ruck-sacks.

After returning to Constable Point, the group were given a final treat when they were flown, in ten minutes, over the route which had taken them three weeks to walk.

Simon Whipple said of Greenland: "It is a huge and beautiful country. The icebergs are magnificent, the flowers delightful, the people friendly and views stupendous. To visit such a place is indeed a great privilege."



Prince Michael of Kent (left) discussing the York one-piece telephone with Robbie Robertson (right), managing director of GEC Telecommunications International.

GEC in Geneva

EVERY four years, Geneva is the venue for a major international telecommunications exhibition.

trip took place on St Vin-

cent and Steven's group

had to travel on a banana

boat from Barbados to their

new destination. As a

TV-AM film crew joined

the group for this phase,

conditions on the boat were

cramped and a heavy storm

did not ease the situation.

involved with the Duke of

Edinburgh Award scheme,

also joined Steven's group

on this phase of their trip.

degrees fahrenheit, with

the help of a compass, the

group made their way

In temperatures of 90

Prince Edward, who is

This year GEC was well represented in the British section with two stands.

The main company stand displayed a wide range of products.

In particular, Lyric 2000, an advanced digital business communications system, was announced and emphasis was also given to the extensive integrated voice and data capability of the PABX range.

showed the new editions of its comprehensive range of videoconferencing equipment and GEC Network Systems featured its expertise in transmission systems from subscriber connec-

tions to international networks and network management.

The second stand was in collaboration with Plessey and demonstrated the latest advances in System X technology.

A satellite link to London connected the System X exchange on the stand into the UK telephone network and the whole of British Telecom ISDN network.

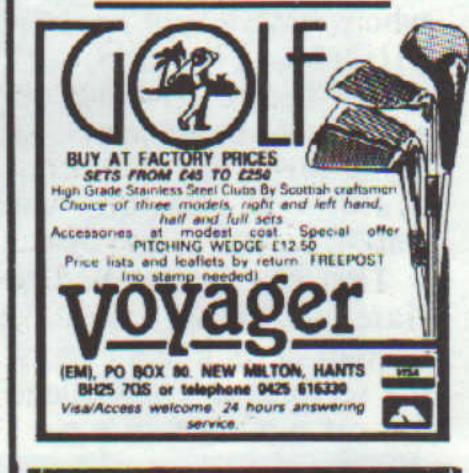
One demonstration allowed visitors to dial up, and control from Geneva, remote video cameras in Coventry, London and Liverpool.

GEC Telecommunications was proud that this was the only fully operational ISDN network demonstrated at the exhibition. one en-route. Most of the islands were only inhabited by coconut trees.

This phase of the trip proved to be quite a struggle as none of the islands had any fresh water, so the group had to ration the water that they had brought with them. All shaving and washing had to be done in the sea!

Many of the group went snorkling in the afternoons. Steven was particularly amazed at the beautiful coral reefs and unusually coloured fish. He said, "It was just like swimming in a tropical fish tank at an aquarium."

Survival was certainly the keynote of the trip and Steven feels that the lessons that he learnt will be invaluable to the people he instructs in the award scheme at home.



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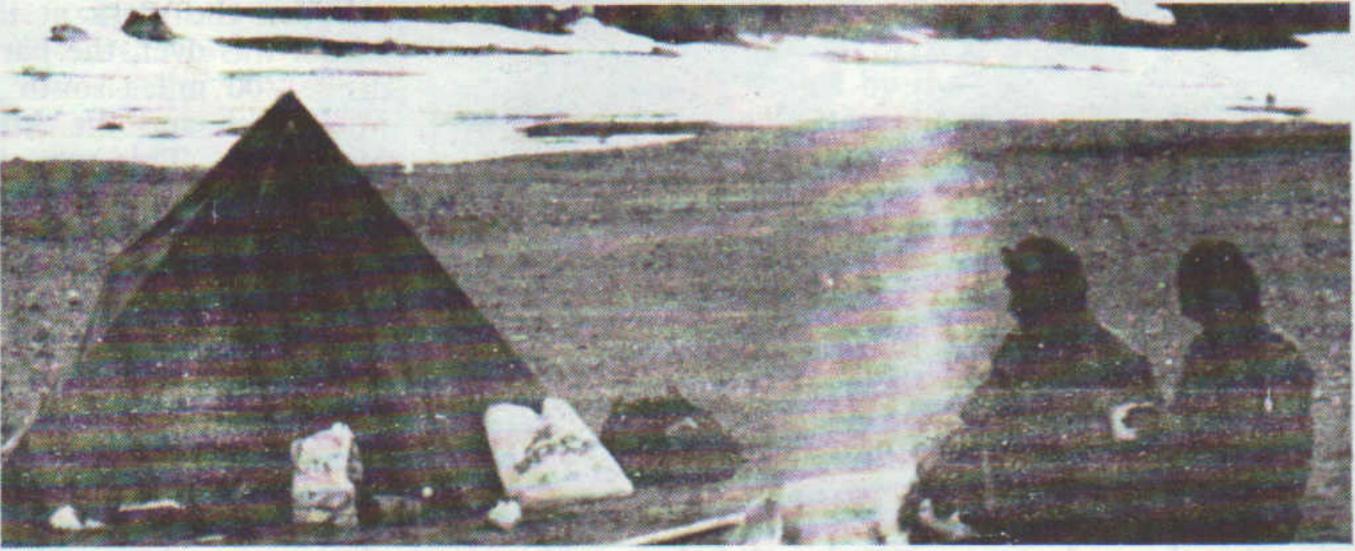
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and clerical trainees, craft,

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and a half day duration

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The fifth National Young Employees Competition

at Builth Wells, Wales. Over six hundred young

ages of 16 and 22 participated, representing over sill

The event was the climax of three months prepara

young people including involving exercises which Youth Training Scheme tested the teams mental

apprentices.

A hand built coracle, which was sailed across a lake.

GEC expedition brings joy to Moroccan children

In October twenty-six young men and women from twenty-three GEC companies took part in the first GEC expedition. Their five week trip to North Africa was the culmination of 10 months hard planning and preparation by the group.

Their main aim was to conduct a number of service projects at a school for physically handicapped children in Khemisset, Morocco. The school, run by the Save the Children Fund in conjunction with the Moroccan Government, provides education and treatment for one hundred and fifty children of all ages, most of whom have crippling disabilities. The projects included building an adventure playground and installing a solar heating system to provide hot water.

The expedition was initiated by Derek Webb, head of development training services at The College of Management,

were selected, from craft apprentices and secretaries to students and graduates. Of the twenty men and seven women selected, only one dropped out during the ten months planning, due to the fact that she left GEC.

Every aspect of the expedition had to be planned by the group members. From fund raising to transport, catering to publicity and the work projects themselves.

Under the leadership of Ian Duff a craft apprentice from GEC Turbine Generators, Larne, the group were divided into various areas of responsibility. Projects planning, fund-raising, publicity, logistics and general administration. The



Two members of the group renovating the tuck shop roof.

Endeavour Training. However, since the initial selection the group has been entirely responsible for its venture.

It was in November 1986 that forty young men and women attended an arduous selection weekend. The group was subjected to both indoor and outdoor challenges to test initiative, character and compatability.

From that weekend a disparate group of people

Dunchurch and assisted by preparation included an advance party of three members visiting Morocco in July to establish contact with the school and to finalise the projects.

The group set themselves a budget of £15,000 for the whole expedition, this included for travel and subsistance, project materials, tools and other expenses for an expedition doctor and medical supplies.

Each group member donated two weeks of his or



Members of the group helping some of the children to read during a weekend recreation period.

her salary to cover travel and subsistance costs. The rest of the money was raised through both individual and group spon-

sorship.

Many of the GEC companies involved also provided sponsorship in the form of equipment, minibuses, time off work, and a pound for every pound raised. By September a total of £19,000 had been raised.

The main project at the school was the design and construction of an adventure playground for the children. This consisted of a main castle with lots of play areas which provided a much needed recreation for

the children and also offered them exercise and therapy.

The solar heating system was made from black plastic pipe and corrugated tin sheets. This design was very simple but very effective. Until now the school has relied upon wood burning stoves to provide what little hot water it had, the school now has one hundred and fifty gallons per day of piping hot water at the turn of a tap.

In addition to these, many other work projects were undertaken during the stay. Re-roofing some existing buildings, redecorating some old rooms,

an internal telephone system around the school and the provision of a tuck shop.

re-wiring work, installing

Tyrolean traversing

ing competition.

The teams comprised of

four members some all

male, mixed — two male,

two female and all girls,

covering a wide range of

Special tools and equipment were taken by the group, however most of the raw materials could be bought in the local town. As the work proceeded, more and more sand, cement, wood, nails and paint were bought much to the delight of the local store keepers who had never had so much trade in a month.

Work started at 6.30 am, before breakfast. By lunchtime the temperature confined the group to relaxing in the shade or around the childrens' swimming pool and waiting until about 4.00 pm, when work went on until darkness fell at approximately 6.30 pm.

The off duty time was also used to assist the children with painting, drawing,



The group during a strategy me

playing or just chatting in the only common language of French.

Earlier in the year, the expedition was one of only four to be nominated for the BBC Mick Burke Award for 1987. The group was loaned film and sound equipment by the BBC in order to produce a film documentary about its exploits. Time must now be spent on editing the film before it is put forward for assessment. The best of the four films will be shown as part of the 1988 'World About Us' series.

When the work at the school was over, the party drove 200 miles south to Marrakech and the Atlas Mountains. This was the second phase of the expedition and under the guidance of an experienced mountaineer and some local guides, four exhilarating days were spent walking in the mountains, and ultimately reaching the summit of Jebel Toubkal, at 14,000 feet, the highest mountain in North Africa.



Children playing on a wobble board in the newly constructed adventure playeround.

L YOUNG EMPLOYEES COMPETITION

EC companies for first place

on recently took place g people between the sixty GEC companies. ration for this demand-

agility, problem solving, teamwork and communication capabilities.

The event also included a night time activity in the Welsh hills which tested map reading, compass reading and orienteering skills.

Each team also had to design and make a banner which clearly indicated their company's name and prizes were given for flair, innovation and art work.

As in previous years the computer scoring system indicated that after four events, involving a maximum of four thousand points, only a few hundred points separated the top twelve teams which were selected to contest the final.

The final proved to be a challenging, stimulating, and exciting exercise with the eager participants being urged on by a large audience.

March laster 1 as special states and the states are states as a second state of the states are states as a second state of the states are states as a second state of the states are states as a second state of the states are states as a second state of the states are states as a second state of the states are states as a second state of the states are states as a second state of the states are states as a second state of the states are states as a second state of the states are states as a second state of the states are states as a second state of the states are states as a second state of the states are states as a second state of the states are states as a second state of the states are states as a second state of the states are states as a second state of the states are states as a second state of the states are states as a second state of the states are states as a second state of the states are states as a second state of the states are states as a second state of the states are states as a second state of the states are states as a second state of the states are states as a second state of the states are states as a second state of the states are states as a second state of the states are states are states as a second state of the states are states as a second state of the states are states as a second state of the states are states as a second state of the states are states as a second state of the states are states as a second state of the states are states as a second state of the states are states as a second state of the states are states as a second state of the states are states are states as a second state of the states are states are states as a second state of the states are states are states as a second state of the states are states are states as a second state of the states are states are states are states are states as a second state of the states are states are states as a second state of the states are states are states are states are states are states as a second state of the states are st

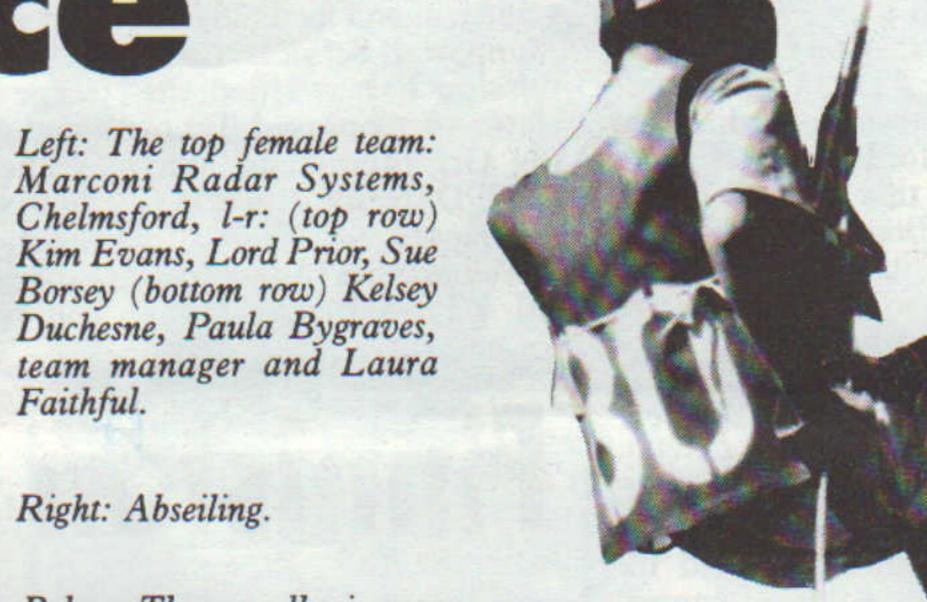
A new team emerged as deserving winners and became holders of the Sir Richard Clayton trophy. They were Marconi Research Centre from Great Baddow, closely followed by Ruston Gas Turbines, Lincoln, and EEV, Chelmsford.

Winners of the mixed team final were Marconi Underwater Systems Waterlooville, second and third were GEC Industrial Controls, Rugby and GEC

Hirst Research, Wembley.

The top all girls team was, as last year, Marconi R a d a r S y s t e m s, Chelmsford, followed by GEC Telecommunications, Coventry, and Marconi Underwater Systems, Watford.

The winner of the banner competition was Yarrow Shipbuilders, Scot-



Below: The overall winners: Marconi Research, Great Baddow, l-r: Paul Theobald, Francis Boundy, Hazel Moore, Lord Prior, Simon Guest, Graham Craddock and Brian Lynch, team manager.





eeting.

The young men and women involved have had a rich and rewarding experience. It was their planning and determination that made the project successful. But the work is not over yet. The group is currently engaged in setting up a series of presentations around the country in order to share some of their experiences with those who have helped along the way.

The fund money left over from the projects will be sent to the school through the Save the Child-

ren Fund to sponsor a child through their schooling at Khemisset, Morocco, and then hopefully on to university. A fitting end to a superb expedition.

Building on this years' success, Derek Webb is already making preliminary arrangements for a similar expedition in 1989.

If anyone is interested in applying for the next expedition, contact: Derek Webb, development training adviser at Dunchurch College, Rugby, Warwickshire CV22 6PL.



Decorating the tuck shop walls.



soun, and second was GEC Turbine Generators, Rugby.

The prizes were presented by the chairman of GEC, Lord Prior, who was accompanied by his wife, Lady Prior.

Derek Webb, national development training adviser, GEC Management College, Dunchurch, is considering increasing the age limit from 22-25 for entrants to the 1988 competition. He would welcome views on this idea from GEC units.



Above: The top mixed team: Marconi Underwater Systems, Waterlooville, l-r: (top row) Adrian Evans, Lord Prior, Richard Yarman, (bottom row) Lisa Clark, David Atkinson, team manager and Niki Neville-Smith.

Left: Transporting a piece of wood over a wall with the help of a tyre.

Below: EEV participants carrying out the word building exercise.



Marconi helps YTS trainee win university place



Sean Fagan.

MARCONI Defence Systems, Stanmore, has a notable YTS success story in Sean Fagan, a technicial engineer in the Electronic Warfare Division. Sean joined Marconi on its one year commercial YTS programme in 1984.

During his time on YTS Sean studied for a BTEC general certificate at Watford College. He also benefitted from Marconi's special one week residential course in Wales and a short computer course.

Sean was offered permanent employment in the technical department during his first year of training. He became a technical clerk in manufacturing and rapidly found that work in an electronics

RUSTON Gas Tur-

bines recently hosted

an open learning exhi-

bition at the Ruston

Marconi Sports Club

The exhibition, which

attracted business people

from throughout the

country was organised by

the Manpower Services

Commission in colla-

boration with Ruston and

was opened by Lincoln MP,

can update old skills and

bring new ones. We must

all keep an open mind to

open learning because

training now protects our

The Ruston open learn-

ing stand was considered

by visitors as one of the

best, displaying a range of

company products, model

turbines, examples of

traditional company train-

ing and an introduction to

open learning. It also dis-

played material from the

Open University and

Maris-Net, the computer

system which lists open

ing team of Brian Glen-

dinning and Frank Francis

and training instructors

Amanda de lay Hey and

Joanne Chalmers, demon-

strated how open learing

courses can be selected

from computer listings and

how course modules are

arranged and edited to

match an applicant's

The open learning ser-

vice of GEC's College of

requirements.

The Ruston open learn-

learning courses.

He said: "Open learning

Kenneth Carlisle.

jobs tomorrow."

near Lincoln.

environment was what he enjoyed most. As a result, he commenced a day release BTEC ONC course in electronics engineering at Watford, which he completed this year with four distinctions and a merit.

Sean has since been promoted to technician engineer and has applied for a place on a BSc course in electrical and electronic engineering at Brunel University. Although the ONC is the minimum academic qualification required for entry on a degree course, the university was impressed with Sean's history and offered him the place.

Marconi Defence Systems will be sponsoring Sean for the duration of the four year sandwich course.



Following an intensive

also exhibited. It special-

ises in the use of open

learning for industrial

training, and the produc-

tion of open learning

courses, offering consul-

tancy services to other open

learning centres within

Ruston success

in open learning

GEC.

period of monitoring standards and facilities, the Manpower Services Commission has awarded the status of Approved Training Organisation to Marconi Defence Systems, Stanmore.

Marconi has run successful YTS schemes since

1983 but with the advent of two year YTS last year, the MSC established a new range of requirements for good quality training.

The award reflects the high standards of recruitment, training and work experience offered by Marconi to its YTS trainees.



STEPHEN Cunningham, a first year EITB craft apprentice at GEC Optical Fibres, Leyton, was recently awarded the Sir Monty Finniston trophy for outstanding achievement. The award was presented to Stephen at the Waltham Forest Technical College where he has been studying for the past year.

At the presentation Sir Monty remarked that Stephen has completed the greatest work output achieved by any student since the award has been in existence and that this was also

Pictured is Stephen, left, receiving his trophy from Sir

Monty Finniston.

coupled with a high quality of workmanship.

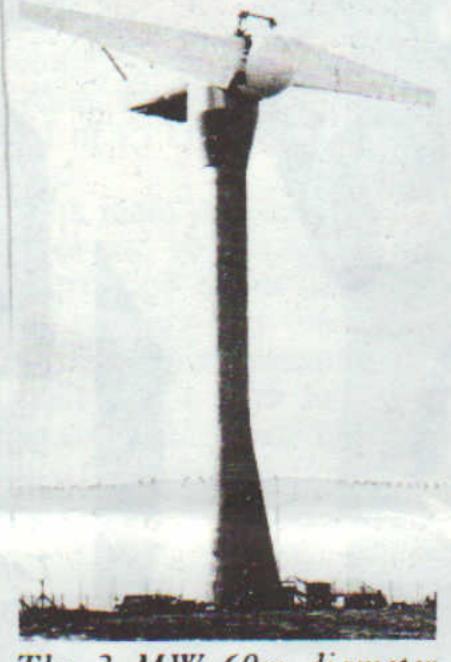
Wind turbine project completed

GEC Energy Systems, Whetstone, has made a major contribution to the design and construction of the large 3MW wind turbine generator sited at Burgar Hill in the Orkneys. It was formally put into operation recently, by the Rt Hon Cecil Parkinson, Secretary of State for Energy.

GEC Energy systems is a member company of the Wind Energy Group (WEG) along with Taylor **Woodrow Construction** and British Aerospace. The 3MW machine is the second of two machines on Orkney designed and built by WEG.

Project responsibility has been divided among the partners, with GEC Energy Systems responsible for the design and supply of the nacelle (the box at the top of the supporting tower), the transmission and power electrics. The rotor was supplied by British Aerospace and overall project management and the tower supply undertaken by Taylor Woodrow.

A central project Management, Dunchurch, team of engineers,



The 3 MW 60m diameter wind turbine generator.

draughtsmen and technicians at Whetstone has been working on the design, manufacture and testing of equipment for the machine. Subcontracts have been let to other GEC companies including GEC Turbine Generators, GEC Marine and Industrial Gears, GEC Engineering (Accrington), GEC Large Machines and GEC Industrial Controls.

The wind turbine is the biggest and most powerful to be built in the UK and is

the largest demonstration project in alternative energy technology in the country.

The smaller 20m twinbladed 250kW machine on the same site was synchronised to the grid in 1983. Since then it has operated for over 12,000 hours and generated more than one million kW hours in completing an experimental demonstration and test programme. The machine continues to be operated by the North of Scotland Hydro Electricity Board, to feed power into its grid system.

The 3MW machine is much larger. The twobladed rotor is mounted on a hub height of 45m taller than Nelson's column — and weighs 64 tonnes. The blades are 60m from tip to tip and the weight of the nacelle with rotor and main gearbox is 145 tonnes.

Funding for the £12 million project was mainly by the Department of Energy and the North of Scotland Hydro Electricity Board, which will also be responsible for operation of the wind turbine.

GARERS

APPLICANTS (men and women) with suitable qualifications are invited to apply for the positions advertised here. They are some of the vacancies which are regularly circulated to personnel departments throughout the country.

GEC SMALL MACHINES WARLEY

Personnel/training officer

GEC Small Machines is situated close to the Birmingham/ north Worcestershire boundary. The company manufactures a wide range of industrial electric motors and there are plans for substantial future growth.

We require a person to fill the above position who has several years experience in personnel and training who wishes to widen their present experience preparatory to taking the full responsibility in a personnel/training management position in two or three years time.

A graduate also having IPM qualifications may well be the right person but proven ability, experience and attitude is obviously more important than academic qualifications.

Please apply to: P Monck, GEC Small Machines, Rowley Regis, Warley, West Midlands, B65 0QT.

GEC SWITCHGEAR (Stafford based)

GEC Switchgear specialises in the design, development, manufacture and marketing of a full range of switchgear and associated products. The company has two main locations at Manchester and Stafford and employs over 1,800 people within its five operating divisions. Recent reorganisation has resulted in a need to make two senior appointments within the personnel and training function at Stafford.

Personnel manager

Reporting to the personnel director, who is based at Manchester, the personnel manager will have specific responsibility for managing all personnel matters for the three Stafford based divisions.

The person to be appointed must be capable of assuming delegated responsibility in the personnel director's

absence.

This post demands a proactive and high profile management style and it is unlikely that candidates under 30 would have gained sufficient experience for this role. It is envisaged that applicants be of degree calibre and possess a relevant professional qualification and those with further development potential will be of particular interest.

Training manager

Main responsibilities will be to manage and co-ordinate the training and development activities throughout the five divisions comprising GEC Switchgear.

Organisationally based at Stafford responsibilities will include detailed management of the training plan for the three local based divisions.

The person to be appointed must be an evident training professional who has a proven record in the development of technical and managerial specialists.

Please apply to: R.S.C. Best, GEC Switchgear, Higher Openshaw, Manchester M11 1FL.

MARCONI DEFENCE SYSTEMS **STANMORE**

Section leader Design evaluation department

The EMC (electro-magnetic compatibility) section of Marconi Defence Systems provides a testing and consultancy service on EMC and allied topics.

We are seeking a section leader to control and direct the activities of this section, which provides both experimental and formal testing services to the Stanmore divisions and a consultancy service to assist projects in achieving product designs which meet EMC requirements.

Familiarity with the defence and space EMC requirements of various UK and overseas procurement

bodies is essential.

Applicants should be mature with a degree in physics or electric engineering and several years experience as an EMC engineer, preferably in the defence electronics field. Please apply to: K. J. Aplin, Marconi Defence Systems, The Grove, Stanmore HA7 4LY.



Saul Lanyado (front far left), general manager, Marconi Instruments, presenting the lifeline machines to Peter Mabon (front far right), Fife Silver Jubilee Committee. Help the Aged, whilst members of the Marconi Instruments Charitable Entreprises Committee look on.

A lifeline from Marconi

MARCONI Instruments, Fife, and the Marconi Instruments Charitable Enterprises Committee (MICE) recently donated two Piper lifeline emergency alarm telephone systems to the housebound in West Fife.

Donate

Marconi Instruments agreed to donate the cost of the telephone system after being approached by the Fife Silver Jubilee Committee of Help the Aged.

The telephone alarm systems will enable the recipients to ring out or answer a call from any room in

der members of the

European Organisation for

Civil Aviation and Electro-

nics (EUROCAE), its first

chairman (1936-66), presi-

dent, (1966-1968) and

honorary president in

President

He was president of the

Electronics Engineering

Association (EEA) from

1971 to 1973, a member of

the Aeronautical Research

Dr. O'Kane was awarded

the CBE in the 1974 New

Year's List. When awarded

the British Gold Medal of

the Aeronautical Society in

1977, he was the first ever

recipient from the avionics

23 years

at the top

BARBARA Hayr,

secretary to Lord

Nelson, chairman of

English Electric and

Derek Roberts, joint

managing director

(technical) GEC,

retired recently after

in the secretariat for the

High Commission for

Rhodesia and Nyasaland,

three years of which was

spent in Rhodesia on the

Kariba Dam project,

Barbara joined English

Electric in February 1964

as secretary to the late Sir

In 1972, on Sir Archi-

Archibald Hope.

Following a long career

23 years service.

industry.

1968.

their home with the help of a pendant which they wear.

At the press of a button, the housebound can call for help immediately from friends or from a communications centre.

The control centres are staffed by trained personnel who can reassure the caller, while triggering the appropriate emergency

response.

As well as being simple to use in an emergency, the system provides a normal telephone service with a host of special features.



Chief fire officer honoured

PETER High, the chief officer of Redring Electric's fire brigade was recently awarded a silver medal and two bars in recognition of 33 years service as a member of The British Fire Services Association.

The presentation was made by chief officer Christopher Durrant, the association president, at the recent national annual training week at Caister-on-Sea, Norfolk.

Peter leads a team of trained Redring employees, who are on hand to provide an initial response in any case of fire in the works.

The Redring fire brigade is also on hand to assist the fire service at major local or regional disasters.

Pictured is Peter (centre) with his fire team and some of the cups and trophies won in competitions during the year.

RETIREMENTS chairman in 1971. He was one of the foun-

A unique and rewarding career

DR. Bernard O'Kane, a former chairman of GEC Avionics, Rochester, (then Marconi Avionics) from 1971-1982 and most recently a consultant to GEC Avionics, has retired recently after a long association with GEC.

Dr. O'Kane, joined the Marconi Company in 1952, Research Laboratories of GEC in 1935 and transferred, on loan, to the Telecommunications (now the Royal Signals and Radar) Research Establishment, Malvern, from 1941-1945.

He became chief engineer of International Airadio Ltd., before joining the

Friends

world-

wide

honour

Harry

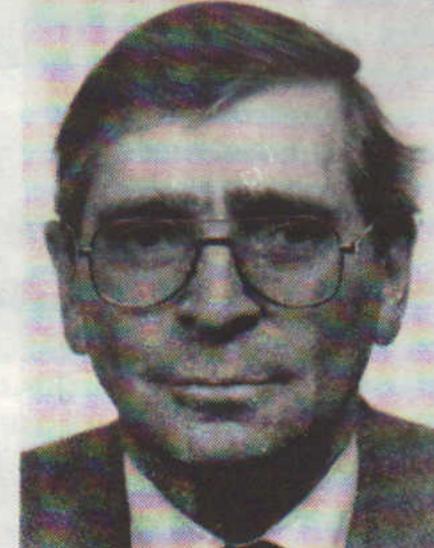
HARRY Codd, sales and

marketing director of

He managed the Aeronautical Division (1959-1965) and was general manager (Electronics) of the Marconi Company until 1969, when he was appointed managing director of Marconi-Elliot Avionic Systems, becoming

as chief air radio engineer.

Council (ARC) from 1968 to 1971, he is currently a council member of the EEA and is one of the UK members of the AECMA Equipment Sectoral Group.



Harry Codd

GEC-General Signal, Borehamwood, has recently retired. Harry started with

Elliott Automation and has since worked for various GEC companies including GEC Traction and GEC Transportation Projects before joining GEC-General Signal three years ago.

Harry's career has been mainly concerned with railway and urban transportation engineering projects. He has lectured at

many universities on these subjects and he still holds an honorary lectureship at Birmingham University.

At a recent reception to mark Harry's retirement, Lord Prior, chairman of GEC, presented him with a pair of gold cufflinks and an album which contained commemorative photographs and letters from Harry's friends and colleagues worldwide.

A special gift

Bill McMillan, public relations manager at Yarrow Shipbuilders, Scotstoun, recently retired after 50 years service with the company.

Bill joined Yarrow in 1937 as an apprentice ship draughtsman. He held various positions in the company before being appointed public relations manager in 1977.

On retiring Bill and his wife, Helen, chose an oil painting as a gift, which was purchased with money collected from friends and colleagues.

Bill will be best remembered at Yarrow for his sense of humour and gift for making both colleagues and visitors feel special.

50 years service DOUG Salmon recently retired after 50 years service with

Doug joined Woods in 1936 and most recently worked as a production operator.

Woods of Colchester.

He was presented with a cheque from colleagues and management by Woods' managing director, David Priest.

Positive improvement from Quality Circles

MARCONI Instruments, St. Albans, has successfully completed its first year of Quality Circles, with positive improvements resulting in many areas of the company.

A Quality Circle is a scheme based on the simple concept that everybody

bald Hope's retirement, Barbara became secretary to Graeme Odgers, financial controller and subsequently to John Salkeld, who also held the post of financial controller and later to Ray Wheeler, an associate director of GEC.

In 1981 Barbara joined Phillip Ralph, an associate director of GEC and in 1984 became secretary to Sir Kenneth Bond, vice chairman of GEC. Barbara has worked for Lord Nelson and Derek Roberts for the last two years.

Active

Barbara is an active member of the Conservative party, she enjoys travelling and is a member of a heritage group, through which she visits many places of historical and architectural interest.

becomes an expert in their own field of work.

Problems

Under the guidance of trained leaders, discussion groups within each department identify and solve problems. This includes

groups and management ensure that proposals can be turned into actions. Efficient At present 14 circles con-

the way work is organised,

the materials used and

working conditions. Inter-

active communications

between the quality circles

sisting of 5 or 6 volunteers meet each week. As a result of the discussions a six month trial is being conducted into the use of new types of soldering irons and a more efficient stores and library system has been introduced into the company's Service Division.

APPOINTMENTS

Iwo new directors

TWO board appointments were recently announced by Walsall Conduits, West Bromwich.

Mike Vale has been appointed marketing director. He joined the company in 1977 and has held several senior management appointments.

Ron Doe, who joined Walsall Conduits in 1954 becomes a director and continues in his role as zone manager, Midlands.

Avionics director

TIMOTHY Venables recently joined the board of GEC Avionics, Rochester, as finance director, having Group. previously been financial director, group board, of Oceonics Group plc.

Timothy takes up the position vacated by David Rickard, one of four directors from GEC Avionics

who have been appointed to the board of the recentlyformed GEC-Marconi

From 1979 to 1984 Timothy was financial director and deputy to the managing director of MEL, a division of Philips Electronic and Associated Industries Ltd.

GEC OVERSEAS CLUB

GEC praised by Jaguar Car chief at the annual dinner

Three hundred and twenty-eight members and guests assembled for the club's annual dinner held at the De Vere Hotel, Coventry, on Wednesday 4th November.

The president, Lord Prior, welcomed all

OVERSEAS

CLUB

SECRETARIES

Council:

P. R. Watson

1 Stanhope Gate

London WIA 1EH

Tel: 0203 452152

Telex: 31361 GEC TEL G

Chelmsford:

A. D. Christelow

EEV

Chelmsford CM1 2QU

Tel: 0245 261777

Telex: 99103 EEV CMD G

Coventry:

D. J. Twigger

GEC Telecommunications

Ltd.

Coventry Point

Coventry CV1 1PJ

Tel: 0203 54988

Telex: 31361 GEC TEL G

Lincoln:

A. E. Garside

Marconi Electronics

Devices Ltd.

Doddington Road

Lincoln LN6 3LF

Tel: 0522 688121

Telex: 56380 MEDL G

London:

R. Abbey

GEC Transportation

Projects Ltd.

132 Long Acre

London WC2E 9AH

Tel: 01-240 9538

Telex: 21403 GEC LA

Portsmouth:

P. M. G. Spence

Marconi Underwater

Systems Ltd.

Elettra Avenue, Waterlooville

Hampshire PO7 7XS

Tel: 0705 264466

Telex: 869233

Manchester:

T. J. Toma

GEC Turbine

Generators Ltd.

P.O. Box 131, Trafford Park

Manchester M60 1AE

Tel: 061 872 2431

Telex: 667152 GEC MCR G

Rugby:

A. P. Fletcher

GEC Large Machines

Mill Road, Rubgy CV21 IBD

Tel: 0788 2121

Telex: 31671 GEC MCR G

Stafford:

F. Brown

GEC Transmission &

Distribution Projects Ltd.

Lichfield Road

Stafford ST17 4LN

Tel: 0785 57111

Telex: 36203 GEC PTD G

Hong Kong:

A. R. Murray

GEC of Hong Kong Ltd.

Tel: 5-8938282

Telex: 73098 GHONG HX

Canada:

P. S. Tambe

GEC Canada Ltd.

Tel: 416 624 8300

Telex: 06 961280 GEC CAN

MSGA

Centre rep:

N. Holmes

2 Heathwood, High Street

Tadworth

Surrey KT20 5RB

Tel: 073 781 3476

7777777

present. He said many valuable acquisitions had been made by GEC in the UK and the United States.

He particularly welcomed the Chinese delegation from Guangdong and recognised the work of Bob Davidson, managing director of GEC Turbine Generators and his team.

Lord Prior paid tribute to Lord Nelson, now retired from the GEC Board, for his many years of devoted service and for the contribution he has made to the company and the club at home and overseas.

Lord Prior welcomed Sir John Egan, chief executive, Jaguar Cars.

Sir John was critical of the state of British industry in the early 1970s and praised the firm core of discipline which made it possible for GEC to function well. Sir John proposed the toast to the GEC overseas club.

Bob Davidson replied to the toast. He thanked Sir John and all the members and guests who had taken time to be present, and congratulated Sir John on what he had achieved for British industry.

In 1986 Jaguar was clearly Britain's leading exporter at £59,000 per employee. GEC Turbine Generator's was £45,000 per employee while the rest, at best, were £20,000. The secrets of success were identical: Sound engineering, economical manufacture, high quality, operational results, a trained work force and customer service.

He referred to the Overseas Club, whose 4,500 members represent a useful quorum of close friendship. He thanked those who have worked so hard for the club. He hoped that the club would flourish into the future. He too, paid tribute to Lord Nelson.

Eddie Sims, chairman of club council concluded the proceedings by thanking Bob Davidson for standing in at short notice. He warmly welcomed eight apprentices (one from each UK centre) and wished them well in their future careers.

Messages of goodwill were read, which were received from overseas



Lord Nelson in conversation with Sir John Egan.

centres in Hong Kong and Canada.

He thanked the members of council and the Coventry centre for the excellent organisation.

CLUB DIARY

Please notify the secretary of the club council if you have not safely received your 1988 club diary. Please notify any change of address.

CLUB TIES

A stock of ties has been purchased. They portray a single 'Mayflower' motif in navy, wine and green. Please contact your local centre secretary.

Hotel, Altrincham.

GEC (New Zealand), Telecom Division, were the hosts at a cocktail party given to invited Telecom

left Lincoln at 6.15 am on

the morning of October 9,

for a weekend in Holland.

MANCHESTER

The date of the 1988

annual dinner of the Man-

chester centre is Tuesday

April 19 at the Cresta Court

NEW ZEALAND

All contributions to this column should be sent to PETER R. WATSON GEC, 1 Stanhope Gate, London, W1A 1EH

OVERSEAS CLUB DIARY

MANCHESTER

Annual dinner, Cresta Court Hotel, 19 Apr '88. Altrincham.

PORTSMOUTH

Chichester theatre, "Daisy pulls it off". 8 Jan '88

21 Jan '88 Burns night supper club

RUGBY

17 Feb '88 Dinner at Benn Hall.

from the GEC Overseas Club was read and applauded.

was invited was able to accept, the exception being those away on business overseas or in locations outside the Wellington region. A wider net will be spread

in future.

Those attending were: J. R. Allen, R. A. Amies, A. Lloyd Beech, G. Christensen, C. P. Dyer, K. H. Edmonds, G. F. Ellett, A. J. Hart, D. Harton, B. Johns, P. Lake, K. Mason, D. Melville, C. D. Moore, N. R. Nicholls, B. W. J. Pannett, J. Parnell, B. Rowlands, P. Rushworth, C. B. Smith, B. J. Stringfellow, D. Tapp, P. Thorn, M. Thomson, T. J. Waghorn, R. B. Wilkinson, M. Wood, L. E. Zwimpfer, Ken Bainbridge, manufacturing

without manufacturers there would be little prosperity, since they provide Almost everyone who the wealth that others can enjoy.

> Pat Spence, in reply, thanked Lord Prior for his support and for his views. He gave a resume of the many activities of the centre which had received magnificent support.

A bouquet was presented to Lady Prior and the lady deputy mayor. Dancing continued until midnight. One hundred members, wives and guests attended.

A group from the centre are going to Chichester theatre on January 8, to see the play 'Daisy Pulls It

A supper night will be held in the Conservative Club, Havant, to mark 'Burns night' at the end of

CHELMSFORD

The Chelmsford centre held its annual dinner on Friday October 16 in the 'Barn' at EEV.

Unfortunately the date of the function followed immediately the horrendous storms, which swept the South East. As a result several members were unable to attend.

Over 40 members and guests managed to get through and thoroughly enjoyed an excellent meal followed by an entertaining speech by Hugh Menown, director of technology pulsed power at EEV.

A particularly welcome attendee was Ken Ginn, a past chairman of the centre who has made a good recovery from his recent illness.

LINCOLN

Visit to Holland: A party of 34 members and wives

NZ personnel who were director was amongst the GEC fellows or FBI/CBI

scholarship holders at Coventry. This was the first function and was enjoyed by all those present. It is hoped to make it an annual event.

A speech of welcome was given by John Butterfield, assistant managing director.

A short reply on behalf of the guests was given by David Trapp, the most recent fellow, in which he expressed appreciation of the opportunity offered by the fellowships.

A message of goodwill



The eight apprentices, one from each centre: Chelmsford, Coventry, Lincoln, London, Manchester, Portsmouth, Rugby and Stafford.

The inaugural dinner of

PORTSMOUTH

the Portsmouth centre was held at the Brambles, Waterlooville, on Friday November 6.

After an excellent meal, the chairman of the centre, John Rowlinson, welcomed Lord and Lady Prior and the deputy mayor of Portsmouth and other guests.

Lord Prior said the stability of the country depends on manufacturing industry and in this area GEC is highly important. Exports reached £1,291m last year and 160,000 people were employed.

He could not stress the importance of training too strongly. He said that it is absolutely vital and that it is up to the government to fill the shortages of skilled persons, by instituting crash courses in maths and physics.

Lord Prior stated that it was far too easy to make a lot of money in the City but

RUGBY

A ladies evening was held at the Woodhouse on October 2. An excellent meal and a pleasant evening was enjoyed. A short speech of welcome was given by Colin Simons.

Eighty members, wives and guests attended. The council secretary, Peter Watson, and David Twigger of Coventry, with their wives, were guests.

The next main event will be the Rugby formal dinner at the Benn Hall, Rugby, on Wednesday February 17, 1988.

SINGAPORE/ MALAYSIA

If there is sufficient interest, George, (Danny) Needham will arrange a Singapore/Malaysia table at the 1988 dinner, to be held in London, for past and present members who have served in those territories.

Please write to, or telephone, George at 125 Leys Lane, Frome Somerset, BA11 2JS. Tel: 0373-63955.



Members of the Guangdong Nuclear Power Joint Venture Company, l-r: T. J. Toma, familiarisation engineer, GEC Turbine Generators, Trafford Park, K. P. Zheng, X. S. Fu, Lord Prior, P. C. Chu, R. J. Davidson, managing director, GEC Turbine Generators, Miss Y. Chew, A. C. Todd, technical operation training manager, GEC Turbine Generators and W. Q. Hu. (X. S. Xu, the sixth member of GNP-JVC was also present at the dinner).

Young employees help to save a life



Pictured is Eddie Bates (far right), retired chief ambulance officer from Surrey Heath, receiving the Lifepak and (from l:r) Peter Baker, training officer, Marconi Command and Control, Camberley, Tom Baker, Andy Bickell and Jackie Fitzmaurice of the Marconi Young Employees Association.

THE Marconi Young Employees Association recently saved a man's life.

Over the past year the association has held various fund-raising events in order to buy a £5,000 Lifepak heart machine for the Surrey Heath ambulance service.

Stabilised

After the Lifepak machine was presented to Camberley ambulance station, it helped to stabilise Owen Ward's heart when he suffered a massive heart attack whilst shopping locally.

A charity dinner was then held to raise the final £1000 needed to complete payments for the Lifepak. Owen was the guest of honour and saw the suc-

cessful evening "as a small way of saying thanks to everyone who helped to save my life."

GEC wins firstever Japanese funded contract

THE Projects Division of GEC Telecommunications, Coventry, has received the first-ever Japanese-funded project to be won by a British company.

The State Railways of Thailand (SRT) has awarded GEC Telecommunications a turnkey contract worth almost £3 million for a train despatching telephone system for the whole of its national railway network.

Many national railways are predominantly single track systems and a dedicated telephone network for despatching trains from point to point is an important part of their operation.

Funded by OECF (Overseas Economic Cooperation Fund of Japan), the SRT contract was won against Japanese and American competitors which included Mitsubishi, Mitsui and Aydin Monitor Systems.

Over 3,700km of track will be covered by the new system which involves the

telephone system.

can carry up to 20 exten-

sions. Within minutes a

contract for a Keylink

and no-one can doubt that

tainly paid off.

design, supply, installation, and commissioning of telephone equipment in 11 despatcher control centres and over 600 wayside stations.

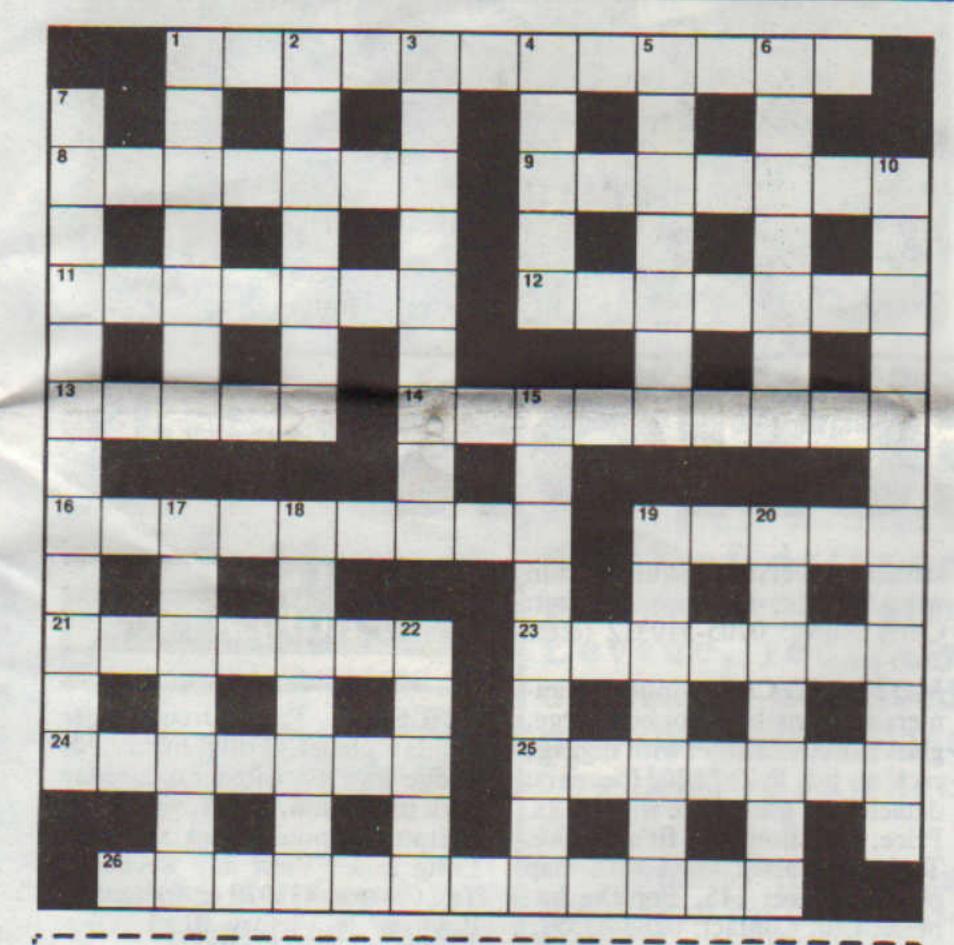
Voice recording facilities, back up power supplies, diesel generators and solar power equipment are included to ensure the security of the system.

The project also involves the provision of a new training centre to be equipped with workshops and simulator facilities for training railway staff to operate and maintain the new system.

The SRT project follows recent successful contracts in Zimbabwe and Taiwan and a current contract in Bangladesh.

GEC is gaining an increasing share of a rapidly growing world market for railway telecommunications systems. The company's impressive record of prestigious railway contracts is now a major factor in securing new orders.

DECEMBER CROSSWORD



ENTRY FORM

Address..... Company.....

- * Stone, Buff, Tulip, Red and Gunmetal
- * Telephone colours delete unwanted colours

DEADLINE: January 14, 1988

Entries should be sent to The first two all-correct Topic, GEC, 1 Stanhope Gate, London W1 1EH. They must arrive here by January 14. Please mark your envelope December Crossword.

Prizes

The two items we have chosen as prizes for this competition are either kitchen scales or a telephone.

entries drawn at random from the October crossword submissions came from T. Milne, GEC Industrial Controls, Kidsgrove and D. Wright from GEC Traction, Manchester.

Due to a printing error in the October grid, seven down had only four spaces instead of six. As a result, Topic, has accepted both kind and kindle as the answer to this clue.

ACROSS

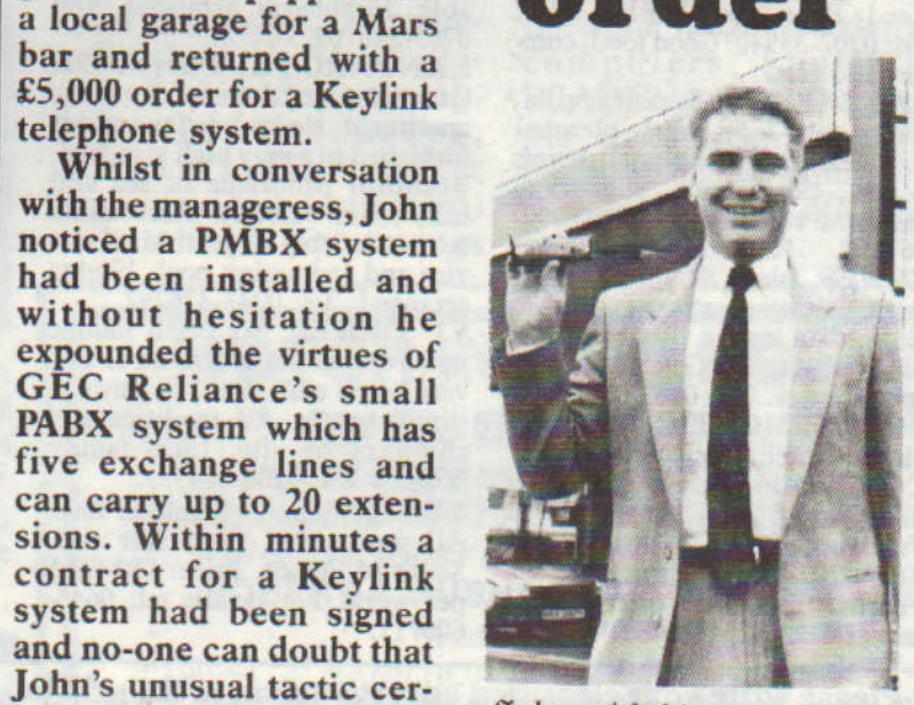
- 1. Money for services rendered. Fancy our men earn it? (12)
- 8. A touch of acrimony before nobleman makes statement (7)
- 9. Excellent piece of advice to Bill returning to health centre (7)
- 11. Extortionist is a former stage-player (7) 12. Pedlar hounds servant
- 13. Faint-hearted Diana goes with German — a complete turnaround
- 14. Appearance of some heartless doctor with
- surgeon's blade (9) 16. A flower and a kiss
- overwhelmed stars (9) 19. Many Scots long for the sound of heavy bells (5)
- 21. Rex, being short of capital, worked as a model it's revealed (7)
- 23. Joy makes one of the family lose his head (7)
- 24. Couple get spell in gaol for double-cross (3-4)
- 25. One possessing a particular advantage is in drink, we're told (7)
- 26. Mental brightness of the CIA? (12)

DOWN

1. Win back about a hun-

- dred and fifty that's one in a thousand (7)
- 2. Being in the saddle, doctor rode to 'ounds
- 3. Brown turns up at old city and sits around with nudists (9)
- 4. Engineers go one better in a summingup (5)
- 5. Totally heartless type starts laughing. That's characteristic! (7)
- 6. Turk to return to island (7)
- 7. Long-delayed story found wedged between holy books shows potential aptitude (6,6)
- 10. Upper-class estate owners put down by government leader over lobby (6,6)
- 15. Have to make a phone about mid-September gathering
- 17. It's a great blow to phony mixed-up characters (7)
- 18. About to absorb telepathy — it could mean a reprieve (7)
- 19. Rows about a lot of men outside become rough (7)
- 20. Dicky, Rae and I produce "A Greek Goddess" (7)
- 22. Most did well to remain (5)

marvellous JOHN Gardham, a sales £5,000 executive at GEC Reliance, Bracknell, recently stunned colleaorder gues when he popped into



John with his Mars bar.

October solutions

ACROSS

8. Gin Rummy; 9. Impair; 10. Here; 11. Sharp words; 12. Weighs; 14. Tungsten; 15. Sleeper; 17. Iceland; 20. Clean-cut; 22. Bisect; 23. Red Admiral; 24. Duty; 25. Babble; 26. Abandons.

DOWN 1. Like Hell; 2. Tree; 3. Amuses; 4. Dynasty; 5. Hispanic; 6. Epsom Salts; 7. Kindle; 13. Greta Garbo; 16. Encumber; 18. Nicotine; 19. Eternal; 21. Leeway; 22. Ballad; 24. Dado.

Author's US trip

GLENN O'Dell, a principal engineer, Automatic Test Equipment Division, Marconi Instruments, Donibristle, Scotland, recently won an all expenses-paid trip to California for his literary contributions to a leading electronics journal.

Meritorious

A year-long search for the most "meritorious" author was conducted by Electronic Engineering magazine together with National Semiconductor, the scheme's sponsors.

The competition was designed to provide a platform for engineers whose expertise can be effectively applied to the next generation of products. Semiconductor technology was the subject for discussion. The problem of noise in the digital world was discussed in Glenn O'Dell's winning article, highlighting not only the problems but giving practical suggestions for the solution.

IPS success brings Le Bas award

KELVIN Porter, assistant purchasing manager at Marconi Command and Control Systems, Blackbird Road, Leicester, recently gained the highest overall mark in the professional stage of the Institute of Purchasing and Supply course (IPS). He was in competition with several thousand people.

Kelvin, who has worked for Marconi Command and Control for 18 years, began his career as a commercial apprentice at New Parks and he has since worked at both the Blackbird Road and New Parks sites.

He took two years to complete the IPS course at Leicester Polytechnic. The final part of the course included a

research study. Kelvin produced a report on the implementation of a computer system within a purchasing organisation, this was based on the experience he gained as project manager, when a GEC Mecca computer system was installed at New Parks.

In recognition of his achievement, Kelvin was invited to a formal lunch which was held on the last day of the IPS conference in Bournemouth where he was presented with a Le Bas award by the IPS president.

At a separate presentation, Kelvin received a cheque from Paul Robinson, managing director of Marconi Command and Control Systems.



Kelvin (left) being presented with a certificate and cheque by Alan Robertson, president of the IPS.

A challenging year for Gary

1987-88 is unlikely to be a year that Marconi Underwater Systems' (MUSL) will ever forget. In addition to securing a place at Brunel University, Gary has been accepted by Operation Raleigh which will take him to Panama in April 1988.

Having particularly enjoyed his HNC studies on day release at Slough

College, Gary was keen to continue, and saw a degree as the way to increase the apprentice Gary Murphy, scope of his career. MUSL's Croxley Mill unit will sponsor him at university.

> When Gary finishes his first session at Brunel, he will fly to Panama where, in addition to surveying jungle flora and fauna, he will help in various health and community projects.

GEC supports Enterprise '87

GEC-Marconi, GEC Turbine Generators and GEC Telecommunications recently took part in Enterprise '87 in Oxford, along with 30 other companies.

was held in order to

The two day exhibition

demonstrate the range of alternative careers available in industry. All under-graduates and

post-graduates in Oxford colleges were invited to attend and over 3,000 visited the exhibition. The lively interest shown in the activities of all the

companies represented suggests that industry will figure more prominently as an option for this year's graduates than it has for those of previous years.

John Banham, director general of the CBI opened the exhibition and he is pictured on the GEC stand discussing the "GADFLY" robot with Geoff Thornton (right) of Marconi Research.



Labourer/poet's dream comes true JOHN Calvert a labourer at publishers. The prize was

(Accrington) recently had a who writes as a hobby, has pital and the New Year." won a competition organised by Aquila/Iolaire have been featured on local

GEC Engineering the publication of some of his poetry and the small dream come true. John, book is entitled "The Hos-

Several of John's poems

radio and in local newspapers as well as in magazines. He has also received several awards and certificates.

John considers that this book "is an important first step as a writer" and also feels that his success makes the point "that even a labourer can achieve as much as anyone else."

CLASSIFIED COLLECTION

HOLIDAYS

ASK about our pantomime breaks and other bargain holidays. Brendon Guest House, 26 Walpole Road, Bournemouth BH1 4HD. Tel: 0202-35940. Good food, comfort and rest.

LANZAROTE. Luxury villa, sleeps two-four. Very pleasant complex: swimming pool, tennis courts, close beach, shops and excellent restaurants. Tel: 0992-467852.

COWES, Isle of Wight. Two seafront holiday apartments, part of Edwardian manor. Sleeps six and nine respectively. GEC employees special rates. Tel: 0983-68762.

BOURNEMOUTH, Richmond House Hotel, Five course dinner. Cosy bar lodge. 10 per cent discount for GEC staff. 108-110 Parkwood Road, Bournemouth. Tel: 0202-421977. Book before February '88, 1987 prices maintained Tel: 0625-528489.

payable to The General Electric Company plc.

TENERIFE, Los Cristianos. Luxury Andalucian style apartment. Two bedrooms; two bathrooms. Complex has two pools, bars, restaurant and reception. Sea views and seven minutes to Playa De Las Americas. Studio and one bedroom flat also available. Flights/car arranged. Tel: 0705-240709.

LANZAROTE, Puerto Del Carmen (old town). New apartment, sleeps two/four and is furnished to a very high standard. Beautiful panorama of sea and hills from balcony. Reasonable terms available all year. Maid service and swimming pool. Flights arranged. Tel: 0243-376792.

ST TROPEZ. Six berth mobile home or four berth caravan on private beach club site. 200 yards to sandy beach. All facilities and shopping on site. Ideal family holiday. Tel: 0206-864535.

LUXURY mobile home for hire. All mod cons. Four star site. South of France. Price: £80-£185 per week. For details tel: 0646-600711.

CORNWALL, West Looe. The Gulls, licensed family run hotel. Overlooking main beach. Panoramic river and sea views. Sun lounges, tv lounge, dining room and bar. B&B from £42 per week, evening meal optional. Reductions for children, senior citizens, low season. Tel: 050-36-2531.

SOUTH Devon, near Buckfast Abbey. Delightful converted barn to let. Two twin bedrooms. Beautifully equipped: ctv, linen provided, shop/p.o. nearby and quiet. Superb walking, fishing, golfing, trekking and swimming. Early season bargains. Particulars: Rettmer-Williams Greystones, Grange Rd, Buckfast, Buckfastleigh, Devon TQ11 0EH. Tel: 0364-42883/42288.

SPAIN, Calpe. Costa Blanca. Villa with three double bedrooms, swimming pool and good location. Convenient for amenities and beaches. For details tel: 0494 782867.

SEDGEFORD—north Norfolk. Holiday cottage to let. Well equipped, modern kitchen, ctv, sleeps six. Available in May-Sept. For details Tel: 01-902 0712.

FOR SALE

WINDOW frames. Completely reversible sash for easy cleaning. Softwood vacuum treated to NHBC requirements. Weather performance exceeds BS6375. Safety restrictor. Weather stripped. Suitable single/double glazing. 3.9ft (1200mm) high by 2.9ft (900mm) width. Price £90.00 each. Tel: 0705-833690 (evenings).

BOARD game. "Don't like losing?" Well why not play a new family game called "Give us a job." It is a game of equal opportunity for two to eight players, ages seven to adult. Price: £15 plus p&p. Tel: 0245-323130 for further details.

SURF Ski palm reflex 95. Good condition, £150 ono. Second skin

streamer wetsuit. Smooth skin worn once - £80 ono. Contact: Chris Rudd: 0705-510312 (after 7.00 pm).

MOTORCYCLE topbox, pan-

niers and tank bag. Topbox: large, glass fibre, lockable, with luggage rack on lid. Price: £30. Panniers: detachable, glass fibre with locks. Price: £35. Both will fit any bike. Tank bag: black vinyl with map pocket. Price: £15. For the lot. price: £70. Contact: 0268-43557. RUCKSACK, Vango, 55 litre, waist strap, separate bottom compartment, side pocket. Drawcord type inner storm flap. As new condition £25. Contact: 0268-43557.

ATARI 400 computer. 48K with 1050 disc drive, 410 tape recorder, joysticks. Over 100 games, some utilities on tape, disc and cartridge. Good condition, original boxes, instruction manual and users handbook. Ideal Christmas present. £150. Tel: 01-902-1324 after 5.30 pm.

HARDTOP for TR6. Price: £70. Telescope, Bausch and Lomb discoverer. 15-60 700M. Price: £130. Gold bangle, 21 CT, 23/4 dia. × 5/8 wide. Modern design. Price: £250. Tel: Lincoln 754743.

CARS/

MOTORCYCLES

WANTED. Ford Escort camping

van or Fiat caravanette. Mechani-

cal condition need not be first

SIMSON Enduro 50cc, C reg,

excellent condition, 2,300 miles

only, one owner, MOT and tax due

August 1988. Helmet and cover

included in the price. £300 ono.

ROVER 2200 SC, 1974, excellent

condition, current MOT. The

working man's Rolls Royce! £450

ono. Would part exchange for

WANTED BSA Bantam 125cc or

Norton model 50, runner pre-

ferred. Any condition for rebuild

project by enthusiast. Details to:

T. Williams. Tel: 0656-721140.

caravan. Tel: 0733-252701.

class. Tel: 0438-362554.

Tel: Chelmsford 72372.

MISCELLANEOUS

PROPERTY

FOR SALE. Two bedroom cedar

holiday chalet. Fully furnished,

fridge and tv. Sited on holiday

park in Clacton, Essex, which has

swimming pool, shop and bar.

Long lease. View any weekend.

Tel: Clacton 433970 or write to C

Boytow, 26 Victory Road, Clac-

EL CAPISTRANO Nerja,

Malaga. Freehold timeshare for

sale. Weeks 12 and 13 (late March/

early April). Large detached, fully

equipped villa. Two bedrooms

(sleeps six) and two bathrooms.

Large sun terrace, two balconies

with views to sea and mountains.

Price: £5,500 ono. Tel: 0526

ton, Essex CO15 3DX.

42550.

REQUEST GEC Rifle and Pistol Clubs to contact Ray Conisbee, Yarrow Shipbuilders, COMSEC, South Street, Glasgow.

MOTOR sport research project enthusiast wishes to purchase or borrow books, magazines, programmes, press releases and photographs from the 1950s/60s. In particular anything on Aintree, Goodwood and Oulton Park. Contact: Mr Heath, 145 Norris Road, Sale, Cheshire N33 3JR. Tel: 061-969-9135.

ENTHUSIAST urgently requires unwanted valve communications receivers such as BC 348, R1155N/L, HR0 5T, AR88, B40D etc. Details please to A.C. Stubbings, 12 Otter Avenue, Saxilby, Lincoln LN1 2HU. Tel: 0522-702601 (after 6pm).

WANTED. Boat engine 5-10 HP.

Must be in good working order.

Tel: Stafford (Weston) 0889-270071 (Evenings or weekends). MILITARY cap badges. British, good selection. Send for catalogue: Harry Jones, 402 Rectory Road, Falcon Lodge Estate, Sutton Coldfield, West Midlands.

Tel: 021-329-2615.

	A CONTROL OF STREET	THE WAY TO BE A STATE OF THE ST	UNITED STATES CO.		ly one insertion per ad
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Please write your classified advertisement in the grid below in clear block capitals (one word in each box up to a

maximum of 40 words) and send it to: Jacqui Crane, Topic, The General Electric Company plc, 1 Stanhope

Gate, London, W1A 1EH by January 14. Insertion is not guaranteed, but every effort will be made to include

your advertisement as soon as possible. GEC employees, their families and people who have retired from the

company may advertise free of charge. For others the current cost is 30p per word. Please make all cheques

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Name		
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	Tel:	
GEC Location		

Sports National Angling Competition THE record book was recently completely c

Lincoln when over 300 anglers representing 22 GEC factories took part in the 1987 GEC Employees National Angling Championship.



Individual winner, John Ball (left) receiving his trophy from Bill Howells.

Reigning champions Measurements ford with 22lbs and Dave Dicken, demonstrated their all round strength in 18lbs 12oz. retaining the team title and completing a record hat-trick of wins. Local favourites Ruston Gas Turbines 'X', Lincoln, (251 points) were runners-up, with Turbine Generators 'A', Rugby (221 points), third.

As expected bream was the decisive factor in the individual stakes giving a very close result.

Challenges

In winning the individual stakes with a record weight of 22lbs 14oz, John Ball, Glass Bulbs, Chesterfield, successfully held off strong challenges from second place Eric Ward, Measurements 'A', Staf-

'A', Stafford (262 points) once again Swithchgear 'A', Higher Openshaw, with

Appreciation

On behalf of all participants the Higher Openshaw organising committee would like to express appreciation to GEC for its sponsorship, Bill Howells, works manager, GEC Measurements for presenting the prizes and Ruston Gas Turbines, Lincoln, for the use of its social club and after match refreshments.

The 1988 competition will be held on the Grand Union Canal, in September. All enquiries for new entries to Peter Tipton, publicity, GEC Switchgear (Distribution Division), Higher Openshaw, Manchester

MII IFL.

1987 results

TEAMS

1.	Measurement 'A', Stafford	262 points
2.	RGT 'X', Lincoln	251 points
3.	Turbine Generators 'A' Rugby	221 points
4.	Energy Systems 'A', Leicester	215 points
5.	Glass Bulbs, Chesterfield	204 points

INDIVIDUALS

1.	J Ball, Glass Bulbs, Chesterfield	22lbs 14oz
2.	E Ward, Measurements 'A', Stafford	22lbs
3.	D Dicken, Switchgear 'A', Higher Openshaw	18lbs 12oz
4.	A Linnel, RGT 'B', Lincoln	15lbs 12oz 08drms

	Tr Elimet, Red I D , Elifebin	15108 1202 Uodrins
SEC	TION WINNERS	
A.	D Clapham, RGT, Lincoln	4lbs
В.	K Cave, Machines, Rugby	12lbs 14oz 08drms
C.	W Skidmore, Trafford Park	6lbs 14oz 04drms
D.	T Mills, RGT, Lincoln	3lbs loz
E.	B McKeown, RGT, Lincoln	6lbs 7oz
F.	P Gallagher, Energy Systems, Leicester	7lbs 3oz
G.	M Plant, Glass Bulbs, Chesterfield	2lbs 1oz 08drms
H.	P Murphy, Marconi, Portsmouth	11b 6oz 08drms
J.	J Sharman, Hotpoint, Peterborough	2lb 5oz



Harold Davis, who won fourth prize in the 'H' section, waiting in expectation of a good catch.

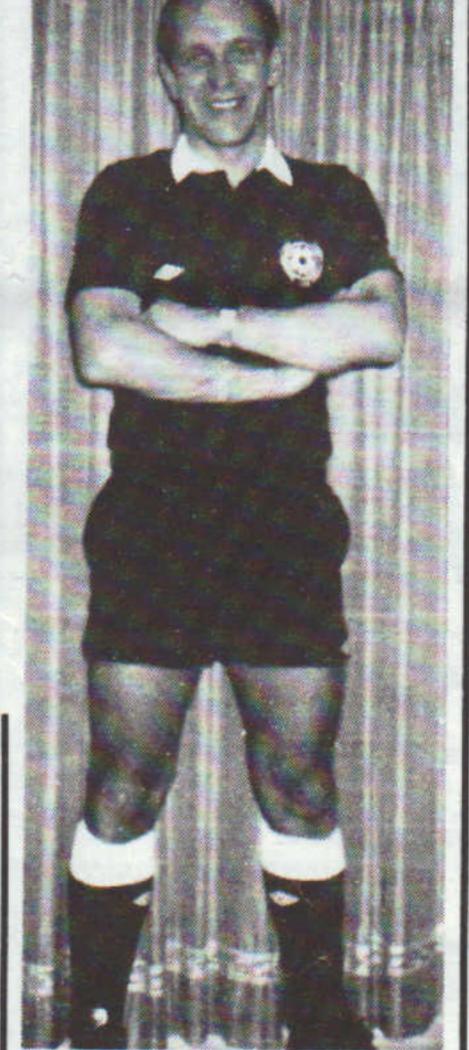
Its the big match for John

JOHN Carter, a technician at Marconi Instruments, Automation Division, Ferndown, Dorset, recently became one of the top ninety referees in the country.

After being a Football League linesman for eleven seasons, John will now referee in the new Barclays League throughout the country.

John has appeared on tv in the Big Match and Match of the Day programmes.

He has also run the line in the Football League Centenary Classic — The Football League XI versus The Rest of the World, played at Wembley. The match was televised live to over 40 countries and watched by approximately three billion people.



John in his uniform and ready for action.

HOLIDAY ON ICE 1988

A completely new presentation of Holiday on Ice is being staged at the Wembley Arena in London from 20th January to 28th February 1988.

There are special rates for Topic readers, family and friends for evening performances on Wednesday, Thursday and Friday at 7.45 pm and on Thursdays at 3 pm throughout the run except February 24, 25 and 26, subject to availability.

The concessionary ticket price is £6.50 seats for £4.00 per adult and £6.50 tickets for £3.25 per child and pensioners. (Children's tickets: ages three to fifteen).

Holiday on Ice 1988 is ideal family entertainment, featuring Invasion from Mars, Disco Fever, A Highland Fling, Snow White and the Seven Dwarfs, Finale "Fantastique" and an international cast of world championship skaters, and speciality artists.

To make a booking, please complete the application form below and return it together with a sae and your remittance to:

Post Department, Wembley Stadium Ltd. Wembley HA9 0DW

HOLIDAY ON ICE 1000

HULIDAI UN ICE 1900
GEC TOPIC OFFER
Please reserve (No. of seats)at £4.00
at £3.25
Time date day
Name
Address:
Please note for all bookings except those made by personal callers there is an additional administration fee of 50p per transaction.
Please make the remittance payable to Wenibley Stadium Ltd.
Please state the amount enclosed: f

The school girls: (l to r) Ed Spiers, Bob Pennington and Andy Milne.

The Micro Scope mile

THE fourth annual Shim memorial mile for Micro Scope staff in Maidenhead was recently run in aid of the St John's Ambulance organisation.

Simon Mather, produc-

tion engineer, was the fastest man with the recordbreaking time of four minutes 40 seconds for the nine mile course. Christine Gibson, consultant, was the fastest lady with a time of six minutes 15 seconds.

The run was thoroughly enjoyed by all those who took part, including the three "schoolgirls", pictured above, who also tackled the muddy, uphill course.

PET PROUD PHOTO COMPETITION



The Duchess of Kent opens new scanner unit

THE Duchess of Kent recently opened a magnetic resonance, imaging and spectroscopy (MRIS) unit, at Addenbrooke's Hospital, Cambridge.

The suite houses a Picker magnetic resonance imaging scanner which is the first of its kind in the UK.

Known as the Vista MR 2055 HP, the scanner is more powerful and flexible than previous models and it offers greatly improved resolution for imaging and spectroscopy.

The MRIS unit at Addenbrooke's Hospital is likely to be the only imaging unit of its kind in the region for many years to come. As such, it will benefit all patients in the region as the referral centre for magnetic resonance. About eight patients a day are expected to be examined by the new scanner.

Pictured is the Duchess of Kent meeting Geoff Mandy, managing director of Picker International, Wembley.

DETAILS of an international pet photo competition appeared in both the April and October editions of Topic.

All units were invited to participate in order to illustrate how many talented photographers (and pets) there are within the GEC group.

A photographic expert was appointed to judge the competition and three winners have been selected.

First prize goes to Alan B u r g e s s o f G E C Measurements, Stafford, for his photograph entitled 'Nosy neighbour'.

Topic's judge felt that this was an excellent winner, as not only is it a very appealing photograph and a difficult pose to capture, but also it is of a very high technical standard.

Alan Burgess will be receiving the first prize of the Creda Micro-plus microwave cooker.

The second prize of a Polaroid 635 point and shoot camera, generously donated by David Cave photography of Dudley, West Midlands, goes to Sharon Wheatley of the Hirst Research Centre, Wembley.

Topic's judge thought, that Sharon's 'Bunter



RESULTS

'Nosy neighbour' by Alan Burgess.

bunny' was an original composition with a good use of colour in the background and of light.

The final prize goes to Jean Swain who is based at the Borehamwood site of GEC Computers.

Charming

Her photograph entitled 'My team lost again', was considered to be a really charming subject, and of a good photographic standard.

Jean will receive a Redring Miniboil jug kettle as her prize.

Congratulations go to the three winners and thanks go to all those who participated in the competition and especially to the site organisers for arranging the preliminary rounds of the competition.



Above: 'My team lost again' by Jean Swain.

Below: 'Bunter Bunny' by Sharon Wheatley.



Cannon meets Anneka at Gaswarm promotion

CANNON Industries, Bilston, recently exhibited some of its appliances at the Gaswarm Homes Promotion, Haydock Park, near Wigan, Lancashire. These were: the Canterbury oven, the double oven deluxe and the live fire.

The promotion was part of the re-launch of the Gaswarm Homes programme by British Gas North Western, the aim of which is to bring gas to new housing developments. British Gas is interested in being more involved in building design.

Among the main visitors to the exhibition were builders and architects.

Pictured is Bob Yeadon, Cannon's national sales manager, and Margaret Logan, merchandiser, with Anneka Rice, who made a guest appearance at the exhibition.



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