

## MISSION PLANNING SYSTEM FOR MALAYSIA

### An Export First

GEC Avionics in collaboration with Hunting Engineering has won a competitive tender for the supply of advanced mission planning aids to support the Royal Malaysian Air Force Hawk 100/200 aircraft programme. The contract, for PATHFINDER 2000 systems, was received from British Aerospace plc, Warton, who are prime contractors for the programme.

This is the first export order for PATHFINDER 2000, although an earlier order from the UK MoD to Hunting Engineering and GEC Avionics for Mission Planning Systems was completed in time for use in Operation Granby in the Gulf. This system, known as

CHAMPS, is used by the RAF to support Hercules and Chinook operations.

PATHFINDER 2000 is based on a twin screen workstation; the Planner's information is shown on one screen whilst a digitized map of the area of operation is displayed on the other. This allows the operator to view the maximum amount of map without it being obscured by text or menu information. Weapon planning and navigation facilities are incorporated in both paper map and data cartridge format. Using the Data Transfer Unit, part of the Data Transfer System (DTS), information can be directly fed into the aircraft's navigational system. This DTS is supplied by GEC Avionics for all Hawk 100/200 aircraft.



The Hawk 100 and (below) 200 aircraft.

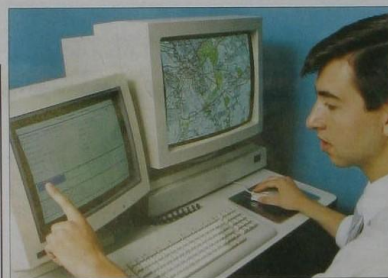
## MCD's Power Converters on Land and Sea

Monitoring and Control Division have secured their third major production order from the McDonnell Douglas Missile Systems Company of St Louis, Missouri, for power converters for the highly successful Harpoon Anti Ship Missile and its latest variant the

Stand-off Land Attack Missile (SLAM). This latest order for 300 units, won against stiff competition, brings the power converter total close to 700 and endorses MCD's position as one of the major suppliers on the Harpoon/SLAM programme.



A shipborne launch of the Harpoon missile.



Mark Paramor, Senior Software Engineer, demonstrates the user-friendly touch-screen facility of the PATHFINDER 2000.

## The First EFA Order for Test Equipment

In the first contract for test equipment for the European Fighter Aircraft, Eurofighter have selected GEC Avionics to supply their latest High Level Bus Analysers (HLBAs). These systems will be used to assist with the complex task of integrating the EFA's advanced electronic systems into the new airframe.

The HLBAs will test the performance of the systems which will comprise the aircraft's Utilities Control System (UCS). The UCS will connect the aircraft's fuel computers, flight control system, landing gear computers, glareshields, computer symbol generators, and the power generators.

During the complicated systems integration process, the HLBAs will swiftly pinpoint the precise location of any problem, helping to minimise the time spent in resolving technical difficulties. In addition, during flights of the EFA development aircraft, the HLBAs will monitor and test all aspects of the performance of the UCS systems through the EFA databuses.

The HLBA is based on our ORION 9000 test equipment which provides MIL-STD-1553 and STANAG 3910 databus testing, both of which will be in use on EFA. In the HLBA, this equipment has been integrated with a powerful computer system which will display the databus

traffic and signals to the operator in formats which will ease the task of integrating and analysing the various systems. In 1985 GAV supplied a similar system, the BETABOX, for use during the integration testing of the Experimental Aircraft Programme, the EFA testbed aircraft.

Two HLBA systems will be delivered, one to British Aerospace in the UK and a second to Alenia of Italy. Deliveries will be completed by December this year and additional orders, which will also incorporate system enhancements, are expected to follow.



The original BETABOX was used on the Experimental Aircraft Programme at British Aerospace, Warton.

## FCD Continues its Pre-Eminence in Fly-By-Wire Computers

Only a few short months after the first flight of the Canadair Regional Jet, equipped with FCD's fly-by-wire Spoilers Electronic Control Units, the division has started production deliveries of these boxes. The first production delivery was made in August, and the flight test programme continues well, with aircraft 03 being prepared for flight.

Back in Europe, FCD has been selected to supply the Slat and Flap Control Computer (SFCC) for the Airbus Industrie A321. The A321 is a stretched A320 carrying 186 passengers in twin class, and the A321 SFCC is an updated version of the successful A320 box. Outstanding orders for the A320 and A321 total over 400.

The A321 is a derivative of this A320, which was the first airliner with fly-by-wire controls and has been in service for nearly 4 years.





# Keeping our Company in WORLD MARKETS

## Introducing our Overseas Representatives

GEC Avionics' exports to the USA are very important and have rightly been well publicised. But in fact, the Company has exported to over fifty countries, sometimes directly, sometimes through aircraft companies and sometimes through multi-national projects.

These export sales require frequent visits to the countries concerned on the part of our UK staff, but it is important to keep the potential customer continuously aware of the Company, its products and capabilities. It is also necessary to have good and up-to-date knowledge of the country to help in devising the best approach to opportunities and requirements there.

One of the ways in which this is done is by maintaining Company offices in countries or areas of interest. In addition to those in the USA, we currently have five full-time and one part-time office, staffed by Regional Marketing Managers who are generally appointed from within the Company and have a good knowledge of it, which is supplemented by training in special topics before moving to the territory. These are long-term assignments, typically for two or three years; they are also

family assignments and matters of housing, children's education and medical considerations. These offices and staff, together with that of other local overseas business arrangements, are the responsibility of Ron Bristow, Assistant General Manager. They provide local support and follow-up for the Company and its Divisions in the UK, and for our US Companies, GEC Avionics Inc., Lear Astronics and Developmental Sciences Corporation.

### South East Asia

The office in Singapore is the base for Malaysia, Thailand, Indonesia and Brunei as well as Singapore itself. Martin Bennett is the Regional Manager, based there with his wife and two children since early last year. Martin served an apprenticeship with GEC Avionics, later going to AS&R Division, now LCSD, and spending long periods at Warton and in Germany on the Tornado, then in Egypt working on the MiG-21 avionics up-date contract. The economy of SE Asia is very active; there are GEC manufacturing companies in Singapore and Malaysia. Aviation is seen as a growth

area; Singapore and Indonesia both have aviation industries. Part of Martin's responsibility is to work with these local companies in promoting GAV's interests, for which his previous on-site work has been valuable experience.

### Middle East

There are two GEC Avionics offices in the Middle East, in Bahrain and Cyprus. Brian Ashley is the Regional Manager in Cyprus, and Ian Hunter is the Regional Manager in Bahrain where he lives with his wife and two children.

Bahrain is a convenient base for the other countries for which Ian is responsible which include Saudi Arabia, Oman and the United Arab Emirates. Ian is familiar with the region, having spent childhood years there; he joined the Company as an apprentice working in several divisions at Rochester, more recently in ATED/SED's Engineering and then Marketing Departments which involved much foreign business travel. Our products are in service in Saudi Arabia on the Tornado, in Oman on Jaguar aircraft, as well as on the F-16 in Bahrain. The Company is under contract to supply equipment for the BAE Hawk 100/200 for the United Arab Emirates.



With Ron Bristow (centre) at their recent briefing at Rochester are Brian Ashley, Kapil Bhargava, John Ungood, Martin Bennett, Ian Hunter and Lindsay Bennett.

The Bahrain Air Force has F-16 aircraft with GAV Head-Up Displays and other business possibilities exist for the Company.

Following the Gulf conflict, there has been a great deal of re-appraisal of equipment and performance in the Gulf countries. The Company will be concentrating its Middle East marketing activities there and, as Brian Ashley retires at the end of the year, the Cyprus office will be run down. Brian has recently been concerned with Egypt, Pakistan and Jordan; he joined GEC Avionics on location in Hong Kong where he was Area Manager for GEC-Marconi Electronics. Before joining GEC, Brian served with the Royal Air Force and one of his postings was as Tornado Project Officer in Munich.

### Europe

An office in Munich, where John Ungood is the Regional Manager, covers several of the European countries. Germany, Italy, Turkey and France have been receiving special attention and there are active market projects in these and other countries. This is a particularly useful office for our US Companies because of their remoteness from Europe

and John is very active on their behalf.

John and his wife have been in Munich for several years, having been Combat Aircraft Controls Division's on-site Representative with our German partner MBB on the Tornado programme; prior to that, he was working with CACD in Rochester.

### India

In India, Gp Capt Kapil Bhargava is a full-time Consultant to GEC Avionics, based in Bangalore which is the main centre of aviation activities in the country. The aircraft company Hindustan Aeronautics Limited (HAL) is there, together with Government research and development establishments.

While serving in the Indian Air Force as a qualified test pilot, Kapil had a number of assignments abroad including some in the UK. He also worked with HAL and with an imports company before joining GEC Avionics to help with marketing in India. This is a difficult market and local knowledge is important. GAV's equipment is on the IAF Jaguars and Sea King helicopters; other projects are under discussion.

### Australia

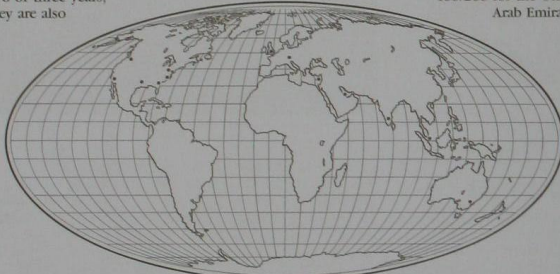
The market in Australia also requires local knowledge and

involvement and the local GEC company assists GAV there. Wg Cdr Lindsay Bennett of GEC-Marconi Systems allocates part of his time to GAV; he knows the Company well, having been assigned to Rochester for two years while serving in the Royal Australian Air Force on MASD's AQ8901 programme for the P-3 aircraft. This was the Company's largest project in Australia; the market is not large and, as in so many places, there are budget restrictions, but new projects are under discussion there.

### General

The Regional Managers are in frequent touch with the Company and the Divisions, returning to Rochester when the projects require it. In addition, there is a formal briefing programme in the UK for all the Regional Managers to make sure they are up-to-date in Company products and projects and to brief the Company on matters in their countries. The photograph shows the team in Rochester for the 1991 briefings programme.

Having these locally-based offices is one of the long-term steps taken by the Company in the interests of obtaining future export business. Vacancies sometimes occur in these positions and Ron Bristow is always pleased to hear from people interested in this type of work overseas.



## Corporate Marketing in the United States

With Fred White's appointment as Vice President Corporate Marketing, based in Washington DC, re-organisational changes and expansions affecting the West Coast operations and US Corporate Marketing generally have followed.

We have established a new GEC Avionics marketing office in Seattle, while maintaining and restructuring the existing Los Angeles facility. Gordon Kesting has been appointed as Regional Manager for the Los Angeles office, and reports directly to Fred White. Gordon has a wide

background of experience in the aerospace industry and until recently was employed by Northrop Aircraft Division.

Trevor Bushell has transferred from Airborne Display Division to Corporate Marketing, reporting to Mr Kesting, and continues to be based in the Los Angeles office.

Jack Stone is appointed to the new Corporate Marketing position in Seattle, reporting to Fred White. As a temporary measure he is located in the GEC-Marconi InFlight Systems office in Seattle.

## 1992 Haskett Trophy

The 1991 contest and ADD's win have not been forgotten, but already the 1992 Trophy entrants are busy preparing their written submissions. Engineers throughout GAV, whether as individuals or teams, have to complete their illustrated reports by Friday 13 December - a lucky date for someone when the final winner is selected by the assessment panel. The closing date for entry summaries is already past, and during next Spring it will be known who will receive the prize which can reach £2000 for a team entry. Participants in all other qualifying entries will receive up to £30 each.



## The End of an Era?

Di Firth has been at Rochester for over 37 years - now she has decided to retire and is going to live on the Costa del Sol. Di and Arthur Colwell, who was Divisional Manager of ATED/SED and previously of ADD, will be marrying next year and are building a villa in Spain.

At the start of her career, Di had no plans to enter industry at all, but has since become one of the very few who have covered the entire history of aviation with Elliott Bros and the succeeding companies. In 1955 she followed a temporary job here by becoming Rochester's first girl trainee. She became a Jig and Tool designer early in the time of Alf Harrison, and Bill Alexander was her first Chief Engineer. Then in 1962, she moved to AS&RD's Technical Publications Dept., becoming Section Leader and responsible for training tracers.

A move to ADD in 1975 brought Di into the Sales area, first as Sales Assistant and later as Assistant Marketing Executive; then she was seconded to Exhibitions Department and became Manager just in time for Farnborough in 1988.

All those years have brought her into contact with a host of people at all levels in the company, and with customers and colleagues throughout the world during her many travels on company business. She is grateful for the many long standing friendships she has formed.

But all that has been only part of Di's busy life. Over the years she has been a highly successful athlete and sportswoman. In her schooldays she excelled in the All England high jump contest, and was competing in athletics with Kent and AAA Junior teams; she played Netball for the county and almost reached the England team. Her Badminton was strong, and her Tennis interest lasts right until today - she has coached many

players over the years. Since 1958, at Elliotts Lewisham Sports day and at a Medway Towns event where she won all the Field events, Di has been a keen athlete. At our own Sports Day which started in 1963 she holds a particular record for winning the Ladies' Victor Ludorum four times. She was also the youngest member of the (Elliott) Social Club committee for well over ten years. All this has given her lots of fun over the years, she says.

Now in her new life and home in Spain, Di won't be quite so busy but plans to keep up her tennis, improve her golf, and continue with her latest interest of windsurfing. At a farewell presentation, Chairman Ron Howard recalled Di's years of service, with some anecdotes she does not want recorded and his thanks on behalf of all her friends and colleagues.



Di Firth and Arthur Colwell.



One of the important visitors to the GEC-Marconi stand was Defence Minister Tom King, seen here with the MoD's Head of Defence Export Services, Alan Thomas.

## The Last Exhibition at Whale Island

The Royal Navy Equipment Exhibition (RNEE) was held at Whale Island, Portsmouth in September. Unlike many other exhibitions RNEE is run in a very military fashion, public access is forbidden. This results in uncrowded aisles, no brochure vultures and most importantly, easy access for the decision makers amongst the potential customers. The GEC-Marconi stand was busy throughout, with much co-ordination required to shepherd the

visiting delegations between different company areas. The only drawback to a very successful show was the unseasonable heatwave, resulting in temperatures in the exhibition area reaching unbearable levels. Perhaps this will not be a recurring problem at the next RNEE which will be combined with the British Army Equipment Exhibition, making a larger exhibition held in the Aldershot area. We will probably be ankle deep in mud!

## Changes in Personnel Department

Personnel Manager Tony Williams has left Rochester to take up an appointment as Personnel Director of GEC Sensors at Basildon.

In a departmental restructuring, Sarah Kenny has been appointed as Manager Personnel Services (Production and Administration) and Peter Bowyer as Manager Personnel Services (Engineering). Sarah and Peter report direct to Director of Personnel John Bradley.



Sarah Kenny



Peter Bowyer

## HOW IT WORKS

### Fly-by-wire Pilot's Control Stick

There have been a number of mentions in the technical press as well as 'GAv News' for contracts awarded to GEC Avionics for the supply of Pilot's Control Sticks - but just what do they do?

The next generation of military and civil aircraft will use electrical fly-by-wire (FBW) systems to operate the flight control surfaces. These FBW systems compensate automatically for gusts and disturbances and prevent the aircraft from getting into a dangerous flight condition or being overstressed. On military combat aircraft this allows the pilot to achieve the maximum agility from his aircraft, whilst on civil airliners it controls the rates of manoeuvres so that the drinks don't spill!

For the pilot to fly an FBW aircraft, he needs a Pilot's Control Stick which he can move in pitch and roll to signal to the FBW computer his pitch (nose up or down) demand and roll (left or right) demand. The arrangement of control stick, computer and control surface is shown at 1.

The demands on the FBW Pilot's Control Stick

are high - it must be strong enough to withstand considerable loads which can be applied under stressful flight conditions, yet sensitive enough for accurate flying such as landing and in-flight refuelling. It must be safe, as it forms the only link between pilot and computer, and as with all avionics equipment it must be light, reliable, easy to maintain, and of course cheap!

The FBW control stick consists of the pilot's control grip, a mechanical assembly and electrical position sensors; this is shown at 2. The mechanical assembly contains springs and dampers which produce 'feel' forces as the pilot moves the stick and centring forces when he releases it. The position of the stick is measured using multiple sensors which can be either electrical or

optical. A separate pitch and roll sensor is used for each lane of the FBW system.

Combat Aircraft Controls Division supplied the centre stick for the highly successful Experimental Aircraft Programme (EAP) and the pilot's controller for the European Fighter Aircraft (EFA) is currently under development.

The YF-22A demonstrator, which won the competition for the US Air Force Advanced Tactical Fighter, has a CACD side-mounted Pilot's Control Stick. This unit has smaller displacements compared with the EFA stick and has full mass balancing so that movement of the aircraft does not affect the position of the stick.

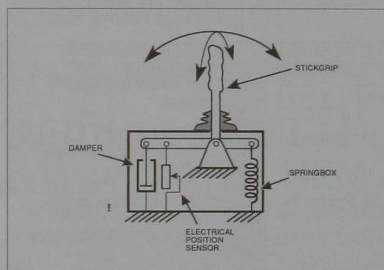
Our associate company Lear Astronics also supplies FBW control

sticks for all variants of the General Dynamics F-16 and has been selected to supply the stick for the AH-66 Comanche helicopter.

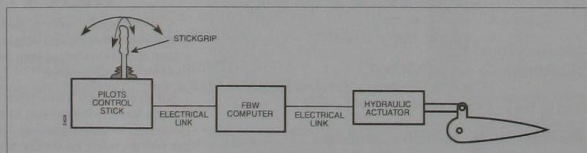
Combat Aircraft Controls Division is already developing control sticks for other applications including electrically back-driven sticks aimed at two-crew aircraft. These sticks use electric motors to provide the feel forces instead of the springs and dampers.

This allows movement of one stick to drive the motor in the other stick, thus allowing the pilots to be aware of each other's inputs.

GEC Avionics' track record on supplying FBW control sticks places it as the world leader in this field, and the development of new products in this area will help to ensure that the company remains in this prominent position.



2. Pilot's Control Stick principle



1. FBW Control System



YF-22A (left) and EAP FBW Control Sticks



# Why Not Join Our Local RAeS Branch?

The Medway Branch of the Royal Aeronautical Society has been associated with the Airport for more than 50 years, having begun in the days when Shorts built aircraft at the Airport Works main factory and operated the Flying School at the southern end of the site. The Branch temporarily lapsed after World War 2 but was re-formed by the company in 1975 and has since proved one of the most active in the country, and one of the largest.

RAeS Branches are open to all with an interest in aviation, whatever their educational background or training. Members of a world-leading avionics company such as GAV have an obvious interest in aviation, as the source of their employment, regardless of their own particular skill or discipline. For them, business and pleasure can come together in the activities of the Branch, since aviation has always been full of excitement and interest.

The main activity of the Medway Branch is a series of illustrated talks by distinguished authorities in aviation. These monthly meetings take place on the third Wednesday in October to April, with the AGM in May. The venue is the Main Canteen, 7pm to 9pm. Expert speakers are chosen representing all aspects of general aviation interest - in no way confined to avionics topics.

Each meeting is attended by a large and friendly audience, often exceeding 250 people, made up of members and their guests from the local community, as well as from every part of the company. In the hall are aviation memorabilia to add to members' interest and knowledge. Some of these can be purchased as souvenirs, in aid of aircraft preservation or charity.

## Important to Careers

It is at the monthly meetings that men and women of every age group come to participate in the very life of aviation, rubbing shoulders with pilots, engineers, aircraft owners, people who work for aviation companies in any number of ways, or whose spouse or partner does. You will meet the captains, lieutenants and privates of industry, all feeling comfortable in one another's company.

In short, membership of the Branch keeps you informed, stimulates public support for aviation, and enables you to share your interests with your friends or family, your colleagues at every level in the company, and your neigh-

bours in the local community. These factors are as important to the company's business as they are to your own career.

The Royal Aeronautical Society (RAeS) is, of course, a member of the Chartered Engineering Institution. This serves the professional interests of qualified engineers, and our professionally-qualified staff should seriously consider the RAeS as their primary Learned Society. So although Branch membership does not imply joining the Royal Aeronautical Society itself, and you will not be put under any pressure to do so, it is an excellent way of gaining some insight into the activities of the Society as a whole, prior to taking any steps to join the Society as a professional body.

There are many grades of membership of the RAeS, and it is a worthy qualification to belong to such a prestigious organisation. By joining the Branch, you will have access to advice about Society membership and, as many of your colleagues are already members, you will have no difficulty in finding sponsors.

## Branch Membership

No qualifications are asked of Branch members, except a genuine interest in aviation. Income is no barrier to membership. The annual subscription is deliberately kept as low as possible, roughly the equivalent of a couple of pints of ale, a bottle of wine or a gallon or two of petrol, representing outstanding value for money (currently £3 pa for 1991/92).

Your Division will have a representative who can enrol you or, if you prefer, you can join at the door, or attend a meeting (a subscription is charged) and then join afterwards, the choice is yours.

Why not come along to one of our meetings - we will be delighted to see you.

## Branch Activities

Apart from the monthly lecture meetings, there are the following activities available to you:

- NEWSLETTER - A four-monthly publication to keep you in touch with the year's activities

- VISITS - Regular outings are made to places of aeronautical interest, such as the Imperial War Museum, Duxford. This enables you to share your interest with family or friends and have a rest from driving!

- AIRPORT HISTORY - Members with an interest in history and industrial archaeology keep archives on the very interesting history surrounding Airport Works.



- AIRCRAFT PRESERVATION Branch members are qualified to apply for membership of Medway Aircraft Preservation Society Ltd (MAPSL), a non-profit company which has restored many historic aircraft at the Airport. Numbers of members are limited but it is worth applying and attending MAPSL's special events.

Chairman of MAPSL is Malcolm Moulton, a former Chairman and now Vice-President of the Branch. He reminds us that the Branch's President, Peter Hearn, is to give the Main Society's prestigious Wright Brothers Memorial lecture at Hamilton Place on 12 December. 'Knowing Peter', he says, 'it will be about the latest advances in avionics, and I thoroughly recommend colleagues to go along in strength that evening.'

Robin Sleight, Assistant Managing Director, has recently been elected Chairman of the Branch. He is very keen to encourage employees with an interest in aviation, regardless of educational background, training or department, to join the Branch. In addition, he asks those among us who are seeking Chartered Engineer status to consider joining the main Society. He also says 'I believe it is important for people in avionics to have a feeling and understanding of the totality of the work that we do, and the overall awareness of the highly professional link to the main Society which is a focus particularly for our technology. Our Branch is trying to represent the general aspects of the industry of which avionics is a part. Our hands-on experience is almost unique.'

## Lecture Programme 1991/92

20 November	'The Victor' by G Lee, the retired chief designer of Handley Page.
18 December	'Advanced Materials in Military Aircraft' by Tom Stratton of British Aerospace.
15 January	'Eagle Squadron' by Lt Col James Goodson, USAF (retd.).
19 February	'Vulcan operations in the Falklands' by Wg Cdr Jim Montgomery, RAF.
18 March	'Civil Cockpits ancient and modern - an airline pilot's viewpoint' by Harry Hopkins.
15 April	'Phoenix' by Peter Jones, Marketing Manager of CACD.
20 May	AGM plus films.

## STEVE AT THE PALACE

Steve Vigar, ex-apprentice now a Production Technician in CMS, attained his Duke of Edinburgh's Gold Award some months ago, although his formal presentation has not yet happened. Nevertheless, Steve and his parents were invited to Buckingham Palace for a Garden Party to mark the 35th Anniversary of the Award Scheme.

Their Royal Highnesses The Duke of Edinburgh and The Prince Edward moved among the guests chatting informally with some of them; Steve was fortunate to meet both and to speak with Prince Edward, who noticed Steve's Boys Brigade uniform, that of a Warrant Officer.

The Gold Award has taken some years to complete; his

various tasks have included an Expedition covering 50 miles in 4 days in Snowdonia, community service with Kent County Council at Oldborough Manor, Maidstone and skills of learning to drive and of music in the BB Band, also as Instructor. Personal Development was undertaken on a residential course in South Wales.

This was an exciting day for Steve and his parents, who also took a Gold award-winning friend.

There must be a number of GAV employees who have also completed stages of the Duke of Edinburgh's Award. Anyone out there wanting to share their achievement with us?



Steve Vigar with his parents at Buckingham Palace.

## B\*\*\*\*\* Marvellous!

Ray Callan, CACD's Chief Buyer, has been to the Commonwealth Institute in London to receive a gold badge in recognition of his donation of 50 pints/units of blood over the years.

\*\*\*\*\*

At the recent visit of the Blood Transfusion Service, almost 500 units were collected.

The next visit will be in April, for one week, dates to be confirmed.

## There's No Escape

A Sales Enquiry Service, such as are often used by Marketing Departments in technical magazines, has passed GAV a request for information following an item in 'Engineering News', titled 'A No Moving Parts Gyroscope'.

But this enquiry came from John Mey-Prisoner, address SA Prisons Service, Private Bag X1003, at a place in South Africa. As Doug Harris was heard to say, 'START assists you in going straight, but will probably have difficulty this time!'

A brochure has been sent.



# GEC AVIONICS NEWS ADVERTISER

..SPORTS AND LEISURE....SALES AND SERVICES....PROPERTY....BUSINESS....VEHICLES....TRAVEL....ACCOMMODATION..

## DISPLAY SECTION

### Advertise in GEC Avionics NEWS

The GEC Avionics Company Newspaper has a circulation of 6000 and is issued six times a year. Every employee of the company and many of their families and friends will read it. The readership is spread right across the North Kent area and beyond so advertising in GEC Avionics News lets you talk to a large audience.

Many local companies offer their products and services to GEC employees, often at discount rates. Currently these are advertised on divisional notice boards. Obviously the success of this type of advert is limited by the number of people who actually stop to read the notice boards. Advertising in GEC Avionics News is your chance to reach a much larger audience for your products and services.

For more information please contact :

**Peter Royall**

Publications Liaison Officer, Logistic and Customer Services Division  
GEC Avionics Limited, Tel: (0634) 844400 Ext. 4166

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## CLASSIFIED SECTION

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### CARS/MOTORCYCLES

**Vauxhall Cavalier 1.3L 'E'** reg, MOT to Jan 92, VGC inside and out, Nordic blue, Phillips Stereo, £3250 ono. (0634) 362008 or M. Phipps Ext 3254

**Rover 216 Vanden Plas 'E'** reg - blue, low mileage, VGC, new exhaust, £4450 ono. (0634) 686063

**Honda 90 1984**. New battery, chain and sprocket set. No MOT, £40. Les Wells Ext 3920

**MG Metro Turbo 'Y'** reg, silver & black, sun roof, alarm, spot lights, £1200 ono. Steve Small Ext 4731

**Ford Escort MkIII**, black, 1.3L, 1981 reg, sun roof, alloy wheels, XR3i interior, remote alarm, spoilers, Ford stereo, 11 months MOT, 2 months tax, bargain at £750 ono. (0634) 847578

**Nissan Sunny 1.5GL Coupe**, April 1983, 84,000 miles, MOT April 92, £795 ono. Lee Penfold Ext 3740 or (0634) 669862

**Fiesta 1.6S G Reg**, 12,000 miles, Matisse Blue, extended warranty, many extras, £6,300. Anne Heyworth Ext 4213 or (0634) 360129

**Metro City 1.0L 'C'** reg, White with Metro motif, 10 months MOT, 50,000 miles, VGC, £1,850. (0634) 571326

### CLOTHES

**Sheepskin Coat**, 10/12, Dr Zhivago style, good condition, £10 ono. Trouser and Cape Suit, size 12, Welsh Tapestry (good material for reuse) £8.00 ono. Pat Pilbrow Ext 4010

**Leather Jacket**, ladies size 12/14, black modern style

£18. Anne Heyworth Ext 4213 or (0634) 360129

### COMPUTER EQUIPMENT

**PC Compatible Computer** Elonex TM PC 88C + Star 24 PIN Printer + Colour VGA, 20MB hard disk (3 1/2" and 5 1/4" Disk Drives), 102 key keyboard and mouse. Serial - parallel games port, DOS 4.01 & 3.30, GW Basic, MS Works, other software £750 ono. Russ Howard Ext. 4647

**Amstrad 2086 Computer**, 14 inch colour monitor, 30MB hard disk. Lotus Symphony and Windows software, £600 ono. Andrew Whiteley Ext. 3981

### ELECTRICAL EQUIPMENT

**Stereo Cassette Recorder** Model HRD - MD16, LW-MW-FM. C/W speakers, perfect working order, as new, bargain at £50.00 A. Daniels Ext 3601 or (0634) 389977

**Record Deck**, Marantz, Belt Drive, new Ortofon Cartridge £40. Radio Control Car and Transmitter, Rocky Turbo 4WD, 3 Nicads, many other spares £120 Anne Heyworth Ext. 4213 or (0634) 360129

### GARDENING

**Garden Plants**, perennials for rockery or border, some shrubs. Plant in autumn for flowers next year. Free catalogue. Rob Potts Ext 4014 or (0634) 718837

### HOLIDAY ACCOMMODATION

**Menorca**, three bedrooms, will sleep 6 to 8 people, 10 min from small beach and set in pretty gardens. (0634) 867183

### HOUSEHOLD GOODS

**Gate-Leg Table** (Teak finish) 32" x 13" with both flaps down 32" x 52" with

flaps up, seats 6, £35 ono. James Young Ext. 3461

**Wooden Playpen VGC** £25.00, Mothercare Viall carrycot with stand £20.00, Cot mobile, kiddicraft, £8.00. Xpelair, window mounting, £8.00. Fire grate & front Firemaster 16", £5.00. Tim Smith Ext. 4248 or 0634 372855

**Small Upright Freezer** £25.00, Amstrad Video Recorder, £90.00. 5 shade Chandalier, £15.00. All items in good working order (0634) 811904

**Velda Sofabed** (green), excellent condition - as new, cost £700 - selling £170. Buyer collects, Steve Pointer Ext. 3528

**Mothercare Via Pushchair** & carrycot (forms pram) with rain covers, duvet, 2 duvet covers, sunshade and cosytoes (Navy/white strip), cost £300, selling £150, also clothing from 0-3 years of age. Lynn Shaw Ext. 3460 or (0227) 830781 (Evening)

**Gas Cooker**, Parkinson Cowan Sheerline, glass top, VGC, £80. D. Moore Ext. 3287

**Child's car seat**, Kangol Dreamseat, suits, 9 months - 4yrs. Plus extra straps for

second car, £20. George Bull Ext. 3746

**Slumberland Bronze Seal Bed**, kingsize divan base (5') £50 Steve Gibbins Ext. 3862

### MISCELLANEOUS

**Magazine**, Classic Sportscar June 1983-August 1991, 98 Issues, £40. Simon Pearson Ext. 3712

**Guitar, Telecaster**, black, new soft case, £140. Ice Hockey Skates, Bauer Turbo, black size 7, £15. Golf Clubs, Voyager as new, Woods 1-3-5, Irons 3-5-7-8-9-PW, £85. Anne Heyworth Ext. 4213 or (0634) 360129

**Are you nearing sixty?** a gentleman of Rochester?, free weekday afternoons?, like snooker, cards, darts, company?, Join Rochester Veterans Club, Union Street (behind Rochester police station). £2.00 annual membership fee. Call in or ring B. Cochran on 402711

### PHOTOGRAPHIC EQUIPMENT

**Paterson Colour Darkroom Kit**, enlarger, masking frame, developing drums, trays etc., nearly new - boxed, £40.00 Simon Pearson Ext. 3712

### PROPERTY FOR SALE

**2 Bedroom** purpose built flat, spacious rooms, tastefully decorated and carpeted. Overlooks River

Medway. Includes Garage, brick built shed and large outer storage cupboard. Easy access M2 and M20. £39,995 (0634) 811904

**Spacious First Floor Maisonette** in Lordswood. Two bedrooms 12' x 11' and 12' x 11' both with fitted wardrobes. Lounge/dining room 15'8 x 12' Fitted kitchen 8'8 x 8', part tiled bathroom with independent shower. All carpets to remain. Full gas fired central heating. Most rooms recently re-decorated. Quiet residential area. Short distance to pick up points for commuter coaches to London. Garage en-bloc (recently re-roofed). Very nice property. No Chain £42,000. (071) 248 9133 Ext. 3589 - ask for Helen. (0634) 681549 (after 7.30pm)

### PROPERTY RENTING

**Second person required** to share house in Napier Road Gillingham. TV, Video, Washing Machine, Dryer etc. Off road parking. Near Bus and Railway Station, £140 PCM plus share of Bills. Contact Ian Sturgess Ext 3759 or (0634) 848381

**House for rent**, Chatham Hill, 3 bedrooms, 3 persons to share, £360 per calendar month. (0634) 362974

### WANTED

**Household Furniture/Effects** for person setting up first home from scratch. Most items considered. Paul Williams Ext. 6002 or (0634) 362731

**Boat, 24ft** with cabin, complete with 35HP Johnson engine + dinghy with 5HP engine, on trailer, many extras. £900 B. Samwell Ext. 4171 or (0634) 814088 (Evenings)

### SOCIAL EVENTS

#### GEC 'HAPPY WANDERERS' TRIPS

Belgium Christmas Sights + shopping. 3 Days from 22 Nov, £41 + £10.50 insurance.

New Years Eve in Paris (30/12/91) £45 + £10.50 insurance.

Wembley 'Holiday on Ice' Sunday 2 Feb 1992. Adults £7 + coach, Children and OAPs £4.25 + coach.

"BUDDY" Very Special Night, Monday 3 Feb 1992, £13.50 + coach..

EuroDisney + Paris, 3 Day Tour from 29 May 1992, £50 + £11.50 insurance. Entrance extra.

Joseph & His Amazing Technicolour Dreamcoat (Not Jason Donovan), 23 Jan 1992, £13.75 + Coach Contact Rod Cole Ext 3502

If you would like to advertise in the GEC Avionics News Advertiser, write your Advertisement in block letters in the grid below and send to Peter Royall LCSD (Publications) Ext 4166.

Advertising up to 25 words is free to GEC Employees, their families and people who have retired from the Company (additional words 50p per word). Non GEC Avionics employees 50p per word, cheques payable to GEC Avionics Limited.


GEC Avionics News takes no responsibility for any misrepresentations or inaccuracies in the classified advertisements or for any breaches of obligations by classified advertisers. Readers are recommended to take appropriate professional advice before entering into obligations. Insertion is not guaranteed, but every effort will be made to include your advertisement as soon as possible.



## EUROPEAN POLICE ON PATROL

As part of the Kent Police 'Into Europe' Programme, representatives of the Belgian, Dutch, French and German Police visited GAv at the end of July, together with their hosts from the Kent force.

The 'Into Europe' Programme is part of the Kent Police moves to promote close links between our police forces and their European counterparts. With 1992 approaching, followed by the opening of the Channel Tunnel in 1993, Britain's commercial and cultural ties with Europe must grow. Kent's critical geographical position means that the region's role in this process will be particularly important.

GEC Avionics has a well established international trading record and has been working closely with European companies for over 20 years. We were therefore more than happy to be involved with this important initiative by the Kent Police to cultivate a closer understanding between ourselves and our European partners.

During their visit, the party saw a demonstration of Ground Owl night vision goggles with ADD's Marketing Executive John White.



The German Police car with its driver Herr Polizeiobermeister Hermann-Josef Bougé, GAv Quality Director Ray Reese, and PC Keith Hawkins who has for some years been involved in community projects in this area, often together with the company. On the left are WPC Jan Bromley and more of the guests.

## GAv Central Charity Fund helps Mum

The Tomorrow's Child Trust Fund was set up by local midwives to raise money to buy essential equipment that is not provided by the Health Authority.

The Central Charity Fund has donated £200 for the purchase of a Sonic Aid which enables the midwife and the mother-to-be to hear the baby's heartbeat during pre-natal checkups. Using it in this picture are Val Cooper, a midwife at the Delce Health Centre, and

Kim Grindley of GAV Accounts who is expecting her first baby in December.

Don't forget, your subscription of 10p a week will be matched by the company. Applications for payroll deductions can be obtained from Personnel Records.

### Other recent donations:-

£200 to the Kent Learning Centre for Disabled Children

£200 to All Saints Hospital.

## Bike Race Time Again



The ADD Bike Race was held on 6th August and was subsequently won by the much improved Dayne Reast. Dayne's improvement was brought about due to his purchase of a super new racing bike and his interest in triathlon. Ray Brogan was not as fit as when he won the event last year, but he still managed to finish 2nd with a creditable time and John Crennell was 3rd.

## 'APhyDs' Win at Borehamwood

On a sunny Sunday early in September, the six companies occupying the Borehamwood site organised a Family Fun Sports Day. The competition programme included 7-a-side football, volleyball, rounders, tug-of-war, welly throwing and 'It's a Knockout' plus children's events.

GEC Avionics, in the guise of Applied Physics Division who

were sporting their new tee-shirts with the 'APhyDs' logo, won the cup presented to the Company with the highest aggregate of points for all events.

APD had contributed to the organising committee through Jenny Hudson and Steve Wallace, strongly supported by Technical Manager Terry Lane in various capacities, including



The APD team tries to pull the division into the 90s.



Soaked 'APhyDs' after the 'It's a Knockout' competition. Kay Webb, Keith Wardle, Ann Foster, Colin Skellett, Steve Wallace.

that of 'exhausted fielder' at rounders practices! Their main responsibility on the day was the rounders tournament which required a knock-out competition among the six teams to be packed into one hour. This was done by the use of a special set of rules known only to Applied Physics Division.

The final event of the day was the tug-of-war and APD fielded a fierce team of robust (but beautiful) women and large men

weighed down by beer and hiking boots. This team carried the day and, together with a win in the volleyball tournament, put GEC Avionics at the top of the score board.

Several pleasant summer evenings had already been spent practising rounders and volleyball and this outcome more than compensated for the hardships of the 'Knockout' team (who ultimately suffered total immersion) and rounded off a very enjoyable day.

### Results

1. Dayne Reast	28.24
2. Ray Brogan	29.16
3. John Crennell	30.49
4. Mike Bloore	31.37
5. Kevin Patrickson	32.02
6. Alan Houlgraves	32.34
7. Will Humber	33.57
8. John Seabrook	34.23
9. Tim Baker	35.19
10. Geoff Harvey	39.14
11. Charlie Oliver	39.18
12. Chris Dardry	40.31
13. Alan Ward	43.21
14. Chris Woodrow	51.29

went off course (apparently)

Joe 91



# Eyes Over AFRICA

The GEC Young Employees Expedition 1991/92

In our April issue, Paul Everson of APD told of his experience in Nepal. Now, Lee Norris, Software Engineer in MASD, has been selected to join the next GEC Expedition.

In February, Lee will travel to Kenya with 24 young people from a wide range of professions, selected from companies within the GEC group, to undertake a community project in Northern Kenya. They were chosen at a rigorous weekend organised by the GEC Management College, Dunchurch.

The project is self funding, in that each team member must raise £1,100 towards the overall target of £34,000, the rest being made up of a two-weeks wages contribution from each of them. So, Lee has been fund raising like mad.

His major event to date has been a Sponsored Walk of the fifteen 3000ft peaks of the Snowdonia National Park (affectionately known as the CHALLENGE 3000). The walk took place in mid-August, and Lee with the help of seven colleagues and friends managed to raise £700 towards his personal target, from just this event. All of the intrepid trekkers said it was the hardest thing they have ever done, especially as the wind was blowing a force 8 gale which made the hailstones feel like bullets. But although it was hard and they openly admit

to a few moments of blubbing while climbing Tryfan, they all want to do it again next year. (Mad!)

As Lee is chairperson of the publicity team for EYES OVER AFRICA, which involves approaches to Newspapers, TV and Radio companies, we hope he will keep us informed also; we wish him the best of luck, and hope that after the 13 vaccinations he needs to go, he does not become the one team member statistically expected to contract malaria while in Kenya!



Lee Norris.

## Progress for Young Enterprise

Following up on the item in the last issue, Don Short tells us that six newly formed 'companies' have got off to a good start in their schools, with the help of their volunteer advisers.

This year the North Kent Area Board, chaired by Site Services Manager Chris Frost, is particularly pleased to welcome two new advisers, readers of GAV News. They are Leslie Friend (ISD) and Bernard Arlington (LCSD). Both are ex-

The 1966 Apprentice intake started their five-year training with the company in September of that year, and five of the new Long Service Association members are from that group.



John Duffett has been in IND/GSD since finishing his Technical Apprenticeship, except for 3 years in Gyro until their amalgamation with IND formed the present division. At various times, inside and outside the superclean areas, he has worked on projects such as Jaguar, Nimrod, and NCS1, becoming a gyro expert; he is currently on the MLRS project. Family life with his wife Lesley and a young boy and girl still gives him time for his hobby of football.



Bernie Arlington



Leslie Friend

## 25 Years Service



Simon Gest of LCSD spent two years as a Tester in IND, but has been in his present division since 1973, firstly as Instrument Technician and then in Quality Assurance. He was promoted to Quality Technician in 1974, and became Leading Hand in 1987 and QA Engineer a year later. At home, Simon has become the envy of his motorcycling friends by rebuilding a brace of BSAs.



Dave Young is Project Manager in CACD, in

charge of the Tornado project with which he has been working since 1972. Then, he was a Development Engineer in TACD/FCD, having joined them 3 years previously after completing his Student Apprenticeship and gaining his HND. Dave has a young family and is a Councillor for Tonbridge and Malling BC.



Eric Jennings, Production Foreman in GSD, distinguished himself while an apprentice Fitter Turner by winning a 2nd year Apprentice Prize of the Year and then a Craft Skill competition run by the Engineering Employers Federation. The years in IND, Gyro and now GSD have included periods working outside Rochester; in 1987 Eric went to New York and Michigan for 13 weeks to learn the build of MLRS gyros. Promoted to Leading Hand in 1986 and Foreman in 1989, he now supervises two clean rooms.

\*\*\*\*\*

There were, of course, many other apprentices in that year—about 30. But most have gone their own ways outside the company at different times.

## Retirements

Harry Cruttenden of CMS retired on 1 August. He writes:

*'I am grateful to have this opportunity to say thank you and farewell to the many people who have been so helpful and friendly in the 38 years that I have been with the Company. Work has always been interesting, in MER, Aviation, FID, Training, MASD and CMS. As a Senior Shop Steward I had to answer for the Staff Manual Workers' agreement and bonus for Testers and Inspectors, and for Rochester 9 Branch of the AEU and introducing the Blood Transfusion Service into the Company. As a Supervisor I was privileged to receive the BEM on behalf of Production Departments and also to chair the Foreman's Association. My 5 years in the Training Department were most interesting and rewarding.'*

*May I wish you all as much success in the future as we have had in the past.'*

Gwyneth (Gwen) Abnett retired from Monitoring & Control Division in July after 11 years

in LCSD Cost & Budget and 6 years in MCD. Gwen previously worked at Thorns before joining GAV.

Arthur Halstead has retired from GAV Stationery Stores after 8 years as Chief Storekeeper.

Ron Benjamin, Senior Design Engineer, was in MACD, then in IND/GSD for the last 24 years of his 29 years with the company.

Bernard Woolgar of ISD's Model Shop originally joined Aviation Division 32 years ago, and in 1966 after various moves he started in FID Model Shop. Successively Bernard was Chargehand and Foreman, and since 1987 has been Superintendent.

Ron Richards, Senior Ratefixer, joined us after service in the Army and Merchant Navy. Ron has now retired after 31 years here, firstly on the shop floor but for 20 years in Central Ratefixing, finally in CACD and GSD.

Senior QA Engineer Gerry Bryant of SESD travelled extensively for the company in Germany and Italy during support of the ATes for the Tornado. For over 12 years in the division

he has worked on that equipment, particularly the video station.

Alan 'Scotty' Scott was in Estimating at many places world-wide before coming to this company 21 years ago. He was in IND for a time and has now retired from CACD as Senior Estimator.

Frank Hunt's 43 years at Rochester have been largely spent as Storeman and Progress Chaser in Gyro and IND/GSD; he has now retired as Section Leader.

Fred Howell, Senior Systems Engineer in FCD, spent a large part of his 32 years' service away from Rochester, on trials work. Originally from Elliotts at Borehamwood, Fred came to IND and later spent some time with MASD and ADD before moving to FCD where he has been involved in the Phoenix project and its flight testing.

Les Smece has clocked up 39 years' service; his early days were in MER, then IND, and when CMS was formed he took his skills as jig-borer, later to operate the first NC machine in the company. Les became a Foreman and more recently has been in Planning and a Production Engineer.



# Brian Sails to Victory

Brian Wells, Senior Project Leader in LCSD Production Project Dept., has had a great success in his pastime of sailing.

Brian sails a Pacer class (about 14ft) dinghy and has won the National Sailing Championships class event, held at Lancing on the Channel coast near Brighton at the beginning of September.

In glorious sunshine and moderate winds, and despite a late arrival owing to a (car) puncture, he showed his sailing skills by straight away leading the first race of the series of four right through to the finish.

Although fighting off a bad cold and loss of vocal chords, Brian went on to

finish best in three out of four races, thus winning the National Masters Trophy.

Brian was chosen to compete in the National by his performance in the Team Trophy in his 'home' club, the Maidstone Sailing Club at Mote Park; he also sails at the Medway Yacht Club, Upnor.



Brian Wells with the Masters Cup he has won at the Pacer Class Dinghy National Sailing Championships. On the table and the wall are more trophies won during a highly successful summer season.

## CRICKET CLIMAX

The 1991 Inter-divisional Cricket tournament has been won by ADD. Their Final match on 22 August with MASD was close-fought, with an interruption by rain (again) and the final overs played with an increasing run rate in rapidly decreasing light.

MASD won the toss and opted to field, and the end of the first over quickly saw Dave Stratton bowled with a peach of a delivery from Tariq Mahmood. MASD celebrated ADD's 1 for 1, not knowing what was to come. In the next five overs only 7 runs were scored, but then Paul Jenkins crashed 17 in one over. After Richard Atkinson trapped captain Steve Rous LBW for 18, and in his next over removed two more batsmen, ADD reached 88-4. Then it rained, hard.

But ADD were eager to resume and a partnership of Paul Jenkins' deadly



Left to Right:- Ken Difford, Maurice Wooldridge, Ken Webber, Eric Jennings, Kevin Talor, Brian Crumblie, Tony Rye, Barry Hodge, Mick d'Archambaud.

## THEY WON 8 OF 9 GAMES

Once again GSD's Bat and Trap team have come up trumps! The 1990 winners of the inter-divisional tournament cantered home to a comfortable win this year in even better form than last year.

Their Captain, Barry Hodge, is modest enough to believe that it was down to his masterly leadership. Other team members think, in spite of it.

But the whole team agrees that a 'bat trick' in 1992 would go down very well.

stroke play and Daniel Bishop (18 not out) put on 47. So ADD closed at 135-4.

In sunshine, Tariq started MASD's innings with a splendid 38 in 6 overs. Captain Malcolm Burt departed, run out by Stuart Flack's inspirational fielding. The match sizzled and Tariq was caught at 42 by Jenkins on the boundary, who in the next over bowled Stuart Gray - another wicket needed but could ADD win?

The wicket duly fell; Dave Patterson delivered a tremendous throw to run out Andy Hedge, and then another fell. Finally, in what seemed like the gathering dusk, ADD clinched their victory with 103 for 8 wickets.

ADD's team: Steve Rous (Capt.); Dave Stratton, Paul Jenkins, Darren Dorrel, Andy Lucas, Daniel Bishop, Stuart Flack, Dave

Patterson, Geoff Johnson, Alan Ward, Brian Hanson.

MASD's team: Malcolm Burt (Capt.); Tariq Mahmood, Stuart Gray, Andy Hedge, Mike Gwynne, Paul Oliver, Richard Atkinson, Phil Stancliff, Mark Hadfield, Mike Dando, Mike James.

The other teams in the tournament this year were CACD (Engineering), ISD, LCSD, GSD, SESD/TSRL, FCD, CACD (Production), Training, Accounts and MCD. From among these, a new competition among the first round losers resulted in a win of the Maurice Finch Trophy for GSD, who beat CACD (Production).

This plate was donated by Keith Washington, organiser of the inter-divisional tournament, and is a tribute to Maurice for his support of the cricket during his years as GAV Club Secretary.

## Athletics Club's fine record

GEC Avionics AC produced a superb performance in the final match of the British League Div. 5 at Cannock on September 7th. With GAV having to beat Stretford to remain in the League next season it was going to be no easy task, but the Club pulled together showing great team spirit and by the end of the match were 30 points clear of Stretford.

With so many excellent performances it is difficult to say what the highlight was, but Paul Ralph's new league record in the triple jump of 15.27m would take some beating. Nigel Stickings ran well in the 100/200m taking maximum points with 10.6 and 21.4, while Steve Bagdaley was his usual consistent self in the 400m.

The middle distance races proved to be very exciting with the standard higher than any other division in the League. In the 800m Martin Forster was pipped for honours in the 'A' race 1:52.6, while Graeme Saker had an easier ride in the 'B' and hung on to win with a season's best of 1:54.1. However in the 1500m Forster ran his best race which was just an hour after the 800m. In a tactical race Forster ran the World Student Games 800m silver medallist Curtis Robb very close, just 0.4 seconds behind on the line after a quick last lap. Spencer Barden revised his best in the 5000m with an excellent time of 14:21.3. All these performances have enabled the Club to stay up in the British League next season, but a lot of the credit must go to team manager Len Murphy who has put so much time and hard work into organising the team. To put this result into perspective, there are between two and three thousand Clubs in Great Britain, and the British League covers just the top 32. GEC Avionics AC gained promotion to the 5th Division of the League in 1989; they finished 3rd last year and 4th this time, thus not being subject to relegation.

## GEC Avionics Club Forthcoming ATTRACTIONS

Saturday 9th November

**DANCE**  
with  
**HAPPY DAZE**

Saturday 23rd November

**PARLOUR DERBY**

Saturday 7th December

**OLD TIME MUSIC HALL**

Christmas Eve

**DANCE and PARTY**  
with

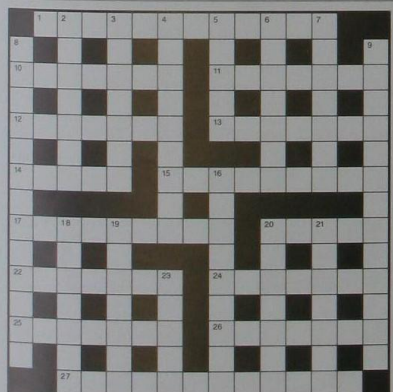
**Keith Howard Road Show**

## ANNUAL GENERAL MEETING

The GAV Club's Tenth Annual General Meeting will take place in February. The Constitution requires a number of Management Committee representatives to seek re-election after two years in office.

At the AGM, three vacancies exist and nominations should be in the Secretary's hands by 31 December 1991. Nomination forms are available from the Social Club Office, Snack Bar, Elaine Beard, Ex 4058.

## Crossword No. 106 (For amusement only)



### ACROSS

1. The bangs which herald the storm (12)
10. A cutting tool, hand held (7)
11. The player who stays with one team, is this man (3-4)
12. Up to no good, at night (7)
13. Approve (7)
14. The oriental flower, profuse and ours (5)
15. An umbrella on a windy day! (6-8)
17. An old fashioned head gear, for rare days (3-6)
20. Of stone, in a quarry (5)
22. Spicy, without kernel (7)
24. The cure all, for malaria? (7)
25. A verbal libel (7)

26. Woken up from sleep or lethargy (7)
27. Taking it easy on a bike, downhill (4-8)

### DOWN

2. A press release, or circular (4-3)
3. Is comfortably at rest, snuggling (7)
4. Of the 1901-1910 period (9)
5. Pungent aromatic dried bud (5)
6. Changed or altered (7)
7. An Italian town, of beach fame (7)
8. Without form or comeliness (13)
9. A toast to those not here (6-7)
16. A tool for the right angle (3-6)

18. Very much so! (3-4)
19. A payment in arrears (7)
20. Lubricant for crowning glory (4-3)
21. Pentecost, not now a holiday (7)
23. Scattered in the way (5)

### Solution to Crossword No. 105

- ACROSS** 1. Childishness; 10. Outlook; 11. Station; 12. Bravado; 13. Emulate; 14. Raked; 15. Tennessee; 17. Seventeen; 20. Hop it; 22. Removal; 24. Theorem; 25. Eritrea; 26. Outpost; 27. Green Keepers.
- DOWN** 2. Hot Pack; 3. Leopard; 4. Ink Bottle; 5. Haste; 6. Erasure; 7. Spirals; 8. Lombard Street; 9. Underestimate; 16. Ninety one; 18. Vamping; 19. Navarre; 20. Heel Tap/Tip; 21. Parlour; 23. Learn.

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# THE SCANNER APPEAL

The Summer Draw finally raised £14,542.119 lucky Prizewinners were quickly told of their good fortune and some of them are pictured here.

Some recent results.

Boot Fair - GAv Club, Hoo £600

Boot Fair - Towers Car Park £350

Karaoke Evening - Canteen £340

CACD Disco £311

GAv/Hospital Barn Dance £450 to GAv £500 to Hospital

ISD Pontoon has already raised £1200 and has now started the new season. . . .

. . . and many more - thanks to all.

One of the prizes was a Chauffeur driven ride to work and back. Tracy Coster, Production Operative in ADD, duly arrived one morning in September in a Rolls-Royce Silver Wraith Sedan de Ville - a very elegant black saloon.

Awaiting her in the Towers car park in the afternoon was a burgundy and black convertible Rolls-Royce Silver Ghost, almost 70 years old. Practising a regal hand-wave to her colleagues, Tracy set off for her home in Wainscott, in grander style than her own Escort. Neighbours cheered as she arrived.

Her chauffeur was the well-known Ivan Odds, who brought the cars from his hire company and donated his services for the journeys.

Tracy's comment afterwards: 'Brilliant!'



**TOTAL COLLECTED TO DATE** £61,975

**OVERALL APPEAL FUND TOTAL** £270,900 (24/10/91)

## Gliding is great!

Martin Price of GSD QA won the prize of a Gliding Lesson; the afternoon at the Kent Gliding Club, Challock (Ashford) will not be forgotten in a hurry, he says. First, he watched half a dozen winch launches, unprepared for the rapid climb which made his previous hearty pub lunch rather less of a good idea. Then, his instructor Bob said 'and now it's you!'

'Parachute on and strapped into a very small cockpit, the learner goes up-front by the way, I was trying to remember what I had been told about the instrumentation in front of me, and the emergency procedure for baling out which ended with something like 'I shall only say this once!'

Then we were off accelerating on the ground for about thirty feet I guess, standing start to flat out in less than a second is quite frightening. With mouth open and eyes tight closed, the sound of the



Martin tries the glider for size.

grass under the fuselage is all I was conscious of, and then all went quiet and the airfield fell gently away beneath, this was now going to be superb.

After a loud bang as the tow cable was released, we were free. I can only describe it as like floating in a small perspex bubble, at 1100ft and all very quiet. Suddenly Bob spoke, 'right hand on stick and remember to maintain 2 degrees nose down, we're going left, look first'. I remember thinking how

strange to look first, surely we were the only people in the world right then.

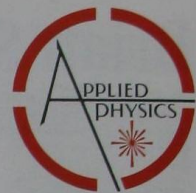
All too soon we were coming in to land, very gently, with airbrakes up and touch-down made. Absolutely brilliant, about fifteen minutes worth of sheer excitement. 'Well how's that?' says Bob. 'I'll be coming back to do it again' I answer, and I will.

Many thanks to all at the club, and behind the scenes there and at GAv, who were so friendly and encouraging. For a fuller description of the actual flying, try it yourself. A super prize not to be forgotten.

## Swimmers are on Target

Over the past few months the Swimming Section has been organising what has now become its annual sponsored swim. This year it has been in aid of the GAv Scanner Appeal. Cyril Moffett, section chairman, has been the prime motivator in the event and his catch phrase has been 'get sponsored and get swimming' - in the nicest possible way.

## APD Fast 'Assault' in Aid of MENCAP



A team of four engineers from Applied Physics Division at Borehamwood clocked the second fastest time of the day over an assault course in Harpenden (fifteen miles distant from Borehamwood) on 29th September. The speedy team were Steve Wallace, Paul Everson, Danny Morbey and Nick Mumby from the Laser Engineering Group.

The event was 'FUNCAP', organised by the Harpenden MENCAP society to raise funds for their local residential and short-stay home for the mentally handicapped.

A 200 metre course was set up in Rothamsted Park, Harpenden, consisting of obstacles including over-and-under poles, net, bridges, gate, high scaffold wall and suspended tyres. Each member of a team ran the full course as a relay leg and four teams raced together in each heat. Over 30 teams were entered in various classes and all raced against the clock.

The local men's hockey club set the best time of 3 minutes 4 seconds and the Applied Physics Division 'APhDs' were a close second at 3 minutes 10 seconds.

The Raffle of the Oil Painting donated by Chas Clift, which was pictured last issue, has raised £420.

The winner was Maureen Wood, of the GAv Temporary Pool.



Harry Staff particularly wants to thank all the people who have helped at his Boot Fair and other events.



The object has been to swim as far as possible in 30 minutes. As usual the response has been

wonderful, with over 60 swimmers aged from 4 to 50 years taking part. The swimmers set their own target distances. These have varied with ability from a few widths to over 90 lengths, and each individual tried their hardest to reach their target - most did.

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Seen above at a presentation evening in October, Personnel Director John Bradley, Chairman of the GAv Scanner Appeal Fund, received a cheque for £1200 from Cyril Moffett. They are seen here with the cheque, together with Alison O'Connell, Secretary of the Medway Scanner Appeal, and some of those who swam for the fund. The total raised came to around £1,300.

Above and left:- Tracy meets her chauffeur for the day.

Right:- Ken Horder of the GAv/MoD Technical Costs Office at Rochester is delighted with his win of the Vauxhall Cavalier in the Scanner Appeal Summer Draw. One of the nicest things that has happened to him during his many years here, he says, and the most unexpected!

