GEC AVIONICS



House Journal of GEC Avionics Limited

GAv is UK's Major Supplier for "World's Biggest Aerospace Contract"

Our Systems will go on New ADVANCED TACTICAL FIGHTER

GEC Avionics and its associated company Lear Astronics will play a major part in the supply of equipment for the next generation of US stealth fighter aircraft, the Advanced Tactical Fighter, ATF.

Following a three-month test programme flown by two prototype aircraft at Edwards AFB, California late last year, the winning Lockheed F-22 has been selected by the Pentagon to provide some 650 ATFs for the US Air Force over the next two decades. The £38 billion expected cost makes this the largest-ever aerospace project.

GAv is the only UK company to play such a major role in this prestigious programme, which will give the USAF air superiority into the 21st

The F-22 will be developed and built by a consortium whi includes Lockheed. Boeing, and General Dynamics. GAv's £300m share comprises the head-up display from ADD; the pilot's control stick, which provides the main link between the pilot and the aircraft's control systems, from CACD; contribution, - jointly with General Dynamics, to develop the integrated Vehicle Management System (VMS). This is an integrated processor suite which incorporates the fly-by-wire flight control system and all the F-22's flight critical and semi flight critical systems such as hydraulics, control. GAv Inc in Atlanta will some 10 years of experibe closely involved as the ence starting with the programme goes ahead.

Together with the recently Programme. awarded contract for the Boeing 777 fly-by-wire system, the potential value of the business won in the USA exceeds £500 million over 15 years. Initially, this includes £60-70 million for the fighter augur well for the future, but we

Managing Director Brian Tucker says "The ATF deal places us on both the next the defence and civil sectors."



The 'stealth' radar-resistant aerodynamic form is clearly shown in this view of the F-22 prototype



CACD's side stick controland environmental ler on the YF-22A follows Experimental

generation US tactical fighter work and more than £45m for are still fighting against cutbacks in UK defence spending and continue to look for expansion into new markets in both



ADD's HUD represents the state of the art in wide angle advanced holographic technology, similar to that also being developed for EFA.



is vital to the air Lear Astronics' fly-by-wire computer craft's agility and n

777 Contract is **Formally Signed**

An historic moment for GEC Avionics is captured as Ron Howard and Philip Condit, Executive Vice-President and General Manager, 777 Division, Boeing Commercial Airplane Group, sign the contract for the Primary Flight Control Computer to be used on the new wide-body passenger aircraft. Behind them is Rick Josephson, Procurement Manager, Avionics and Flight Systems.

Also from GAv at the ceremony in Seattle were Brian Tucker,

MD, Andy Hills (DM) and Malcolm Earl (777 Programme Manager) from FCD, together with Peter Clarke of our office in Redmond near Seattle

After the ceremony, the full scale mock-up of the 350-seater 777 was visited, together with the simulator where everyone tried their hand at 'flying' the new aircraft.

The 777 contract secures GAv's place in the growing fly-bywire commercial aircraft market. Over five years of development work in FCD, with support from CACD, MASD, MCD and TSRL, can now progress into the building of systems for aircraft likely to be a major success in the years to come

Launch orders have already been received by Boeing from United Airlines and All Nippon Airways.



Bill Alexander Retires

The retirement of Bill Alexander after over 36 years as one of our main 'guiding stars' has been recorded in a separate extra issue circulated mainly within GAv's UK workforce.

To complete the story, here is picture of Bill with his wife Edith, who has been so supportive and interested in a great many of our activities appearing among us on many occasions over the years.

Our best wishes go to them both for a long and happy



STOP PRESS — Friday 10th May saw the maiden and second flights of the Canadair Regional Jet (RJ) with its state of the art 'fly-by-wire' spoiler control system supplied by FCD. See page 3.

INSIDE

Page 2 and 3 Company News and People: 4 and 5 Your Scanner Appeal Fund-raising: 6 Long Service Awards and Retirements: 7 Sports and Events, Clubhouse Forthcoming Attractions.

TSRL'S OPEN DAY

In March TSRL held its first new products. The open day less exciting but much more annual 'open day' since its took the form of short lectures exacting application of creating move to the main site, during on various subjects followed by a view of the cockpit and which it presented both itself and its work to GEC management and to the other divisions. The result of the move is increased visibility, which ensures both that the Laboraand that new ideas are made more available to the Product ing problems or for possible

Among the more unusual ones were Virtual World and Active Noise Control. Virtual being used in a new generation of arcade games, where the 'player' wears a helmet and a view of the cockpit and outside world for a pilot who is

Active Noise Control is a method of reducing the noise heard by cancelling it with other 'opposite' noise. We are studying the application of this goggles which produce a 3-D technique to the passenger artificial world in which he is cabin of the new generation of

Another Quality Award

In March 25 Monitoring and ers have been awarded PSQT Quality Assurance and he Control Division was presented with the "McDonnell Douglas Preferred Supplier Douglas Preferred Supplier

Quality Team Award" for the

Quality Team Award" for the McDonnell Douglas, stated fourth consecutive year. Only seven companies out of 700

that to maintain the award for four years shows the commit-European and British suppliment by GEC Avionics in

Divisional Manager, receives the Preferred Quality Award from Mr Tom Etheridge of



MCD go to sea

Defence Systems Ltd for design, development and production of a power supply and battery support unit (PSU/BSU) for the Command and Control system of the UK Royal Navy Type 23 Frigate.

The order includes production of over 300 of these rugged, highly reliable units, with deliveries commencing in May 1991.

The purpose of the unit is automatically to provide uninterrupted power supply to the system in the event of ship's mains failure, reverting when the normal power





sume; GAV has a big share of the four-company exhibition stand under the GEC-Marconi name; the others are GEC Sensors, GEC-Plessey Avionics, and Marconi Systems. To be sumer for thelicopter use, and a working demonstration of GSD's digital colour map the others are GEC Sensors, Harrier GR7 night attack directif. GSD's Total of the company of the com Marconi Systems Technology (a division of Marconi Under-Marconi Electronic Systems Corp., GEC's largest defence contractor in the US, will be

GAv exhibits will include a model of ADD's latest "total mission capable" binocular

currently in production for the Harrier GR7 night attack aircraft. GSD's Total Terrain Avionics (T²A) integrated covert navigation system will be featured, also the CACD/GSD SPARTAN terrain referenced navigation / terrain following system selected for the UK Tornado IDS variant. In the Flight Controls field, the fly-bywire and computer systems chosen for EFA, Boeing 777,

Airbus fleets and Canadair's Regional Jet are on show

ISD's Miniature Standard MASD's acoustic and tactical processors for anti-submarine helicopters, including the Royal Navy Merlin project, complete an impressive line-up of GAv systems confirming our world

Fly-by-wire has prompted a series of articles about the products of our Divisions, and how they actually work and what they do. The picture of a soldier using Ground Owl suggested that the first of these should be...

NIGHT VISION GOGGLES

The response of our eyes sometimes referred to as Eyeballs Mk I, is best in the green/ yellow portion of the daylight vision spectrum and is poor at night for two reasons. First, the light levels are very low even for the dark-adapted eye, and second, most of the night sky radiance, other than sunlight

reflected from the moon and planets, and starlight, is in the near infra-red (IR) region where the eye has no response.

come the problem because they and are also sensitive in the near IR. They gather radiation that is invisible to the eye and convert it to a green/yellow image which the eye can see.

The Basics

Night vision goggles consist on a cross-slide assembly (which normally incorporates

The Night Vision Goggle monocular has a camera-like objective lens to gather the available radiation, an image intensifier tube to amplify the radiation and turn it into visible light, and an eyepiece/magni-fier focused on the tube output. The objective lens inverts the image and a 180° fibre optic output twister in the tube again inverts it to allow the user to see magnification) with the outside

that the night sky radiation is gathered by the objective lens and focused in the intensifier tube onto a photocathode. The photocathode releases electrons which are current amplified by

then strike a phosphor screen used and its sensitivity. While continued production of GEN 2 creating visible light.

The microchannel plate is a inside walls of the cylinders are

This amplification can be anything up to 50,000 times the

New Versions

The latest Generation 3 (GEN 3) tubes differ from Generation 2 (GEN 2) tubes mainly

our eyes see light at wavelengths of around 400 to 700 thin secondary emission current amplifier which consists of a red), GEN 2 tubes have alkali nanometres (spectrum violet to parallel array of hollow glass photocathodes with response cylinders about 1mm long and from 350 to 900 nanometres. 10 microns in diameter. The GEN 3 tubes have more expensive gallium arsenide photocoated with a secondary emit-ting material which, when excited by the electrons, greatly amplifies the current flow by a cascading action. allows GEN 3 systems to operate at lower light levels than GEN 2 and they are more easily made compatible with aircraft cockpit lighting. However, on all but the darkest nights there is very little obvious difference

tubes for night vision applications.

The development of Night Vision products has progressed greatly over recent years and therefore forms a significant part of our pilot's helmet philosophy. Our continued research in this area offers improved mission capabilities to the world's military.

GAV AGAIN RECEIVES FIT for WORK AWARD



a Department of Employment ceremony at Airport Works, hosted by GAv on port Works, hosted by GAV on 1st May, the company was pre-sented with its third "Fit for Work" award. GAV is the only company in the South East which can be made to any region to have received the company. It is a tribute to a

recruiting, employing, and another to carry out his work training people with disabilities".

Countess Mountbatten pre-

Burma. Other distinguished guests included local dignitaries and senior industrialists, D of E officials and local MPs Dame Peggy Fenner DBE,

er MBE, the Kent Robin Carver MBE, Chairman of the Kent Committee for the Employment

the guests and explained the the guests and explained the background to the Awards. Brian Tucker in his speech pointed out that the Fit for Work Award is regarded by GAv as among the very highest honours award on three occasions.

The Award recognises "good practice among organisations in

The Guest of Honour was
Her Majesty's Deputy Lord
Lieutenant of Kent, The Right
Hon, Countess Mountbatten presented the Fit for Work Award
Lieutenant of Kent, The Right
Burma. Other distinguish
guests Checker in WES, received the Certificate and Julie Starling (nee Stott), Welfare Officer, received the commemorative

division were invited to the presentation and to the subsequent lunch in the Lounge Bar. The Countess, herself no attitude of people towards disability is now changing. The Award, she said, is a tribute to the whole "family" of people at

Seen bere after the presentation, Gavin Mac-Donald, Ray Foster, Countess Mountbatten of Burma, Julie Starling and Brian Tucker.

work and reflects employees' commitment to colleagues who suffer from any form of disability.

Julie Starling, on behalf of all fellow employees, thanked the Countess for her congratula-tions for the award and her kind

Dover District Council, who were represented by Councillor Mrs A.R. Purnell, were also presented with a Fit for Work Certificate at the ceremony.

"Caught in the Gulf"

With great regret, we have to postpone the continuation of John Chappell's story, owing to pressure on space in

OFFICE OPENS IN HOUSTON

ness in the Western Region,

Gulf of Mexico market with the is growing demand

and Gas industry continues, sea system was described in the GAv has opened an office in last issue. The new GEC Houston, Texas. It will provide Avionics Inc. Houston office, engineering, technical, and together with the company's marketing services for MCD's existing Atlanta facility, will Subsea Control Systems busi- play a major role in the Zinc project and in our future activiwhich is defined as North and South America, South-east Asia, and Australia. ties in the region. The move will give GEC Avionics, and the Industry, increased capacity Our strong entry into the US products in an area where there

CANADAIR'S REGIONAL JET IS FLVING

The maiden flight of the n RJ is a first for Canadair and for GAv, with the advanced fly-by wire technology used for the (SECU) on the 50-seat aircraft.

Since the contract was awarded last year, FCD has worked to extremely tight timescales. A full team of engineers has been located at Bombardier Inc., the aircraft manufacturer's site is Montreal, completing an exten sive programme of rig and

HE GEC & SELECTED BENEFIT SCHEME

The earlier people start making adequate financial provisions, the better their quality earnings. You may contribute a of life will be when they retire. Being financially secure allows people to enjoy the freedom retirement brings and helps them pursue their own leisure activities without worries.

Because of tax relief and Company support, the Company Pension remains the for retirement and you can improve your chances of enjoying your retirement if you've planned your finances

Selected Benefit Scheme -**Boosting your Pension Power**

Take advantage of a tax efficient means of boosting your pension by saving through the Selected Benefit Scheme. This complements The GEC Plan by providing a facility for extra pension and/or death benefits by the payment of additional

As a member of the GEC further 12% of earnings to the Selected Benefit Scheme. There Contributions for retirement benefits may be reviewed on the 1st of any month but Death in Service contributions may only be amended on a member's

Finding out what your Pension will be

In the last ten years or so leading up to retirement you should start thinking about where your retirement income is going to come from and whether it's going to be enough

Company Pension

Pension benefit statements are received annually and give a forecast of benefits through to state retirement age, both in the

State Pension

It is possible also to obtain a forecast of your state pension benefits well in advance.

Contact Personnel or the Department of Social Security for Form BR19 - fill it in and send it to the Retirement Pension Forecasting and Advice Unit at the address given on the form.

The information you will receive will give details of your basic state pension, and of state earnings related entitlement and graduated pension scheme.

Further details of the GEC Personnel Department

GEC Avionics News

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Recent Appointments

judged to be "Powered Holo-

Richard Howard (Project

winner of the 1991 graphic technology is a vital t Trophy for Engineer- feature of the EFA and ATF been HUDs.

ADD Team Wins

The Haskett Trophy.

From an extremely high standard of entries, the work of APD's Paul Schwarzenberger (Senior Section Leader, Laser Group) and Russ Leader), Joanne Kelsey and Leybourne (Manager, Me-Jonathan Freeman (Senior chanical Design Group) on Development Engineers) and the "High Repetition Rate Roy Townsend (Senior De-Pulsed CO₂ Laser" was Roy Townsend Gentor Design Engineer) share the 2000 prize which with the trophy will be presented during the summer. The holobes shared at Borehamwood. Over the last few weeks a place, he will particularly be

In the USA, Fred White is port aircraft. now Vice President US Marketing, responsible for the management and operational control of all GAv corporate marketing personnel based in the US. Fred has been managing the Los Angeles

Tim Taylor is Manager with the increasing importance of the 'civil' aircraft market-

number of appointments working closely with ADD in the technical development and marketing of HUDs for trans-

Here at Rochester, TSRL sees the appointment of Dr Peter Carrington, previously Technical Manager of MASD, as Deputy Divisional Manager. Also, Malcolm Moulton is Business Development Manager, Jayne Bryant is Chief Transport Aircraft Equipment; Engineer, and Keith Mitchell is Chief Scientist. Don Price is Research Consultant

ment of Ken Boardman, John France is now Manager of

CACD to take up the post of Marketing Manager.

'Charlie' Bass returns Rochester as Production Manager of ADD. Succeeding him at Nailsea, Chris Coveney is now Production Manager of

And at Borehamwood, Gillian Sandys has been appointed Commercial Manager of APD.

The Scanner Appeal

how the money came in...

... and is still coming in. When the original £25,000 target was passed nine months early at Easter, the momentum was such that even as this is written £33,000 is well behind us.

The generosity of individuals and groups is boundless. So much money and time and effort deserves gratitude difficult to express; no complete record can or should mention everybody involved, but here is a collection of just some of the events in aid of the Appeal. To every one at GAv who has taken part, THANK YOU. And if you are not mentioned on this page, this means you especially.

But even this account of the Appeal is 'out of date'; keep it up - and tell GAv News.



At the poolside are: Back (L to R) Mike Smith (FCD), Carl Musson (GSD), Sarah Chambers, Pat Betts, Dave Betts (CACD).

(CACD).

Front (L to R) Kevin Patrickson (ADD), Neil Rattray
(GSD), Vicki Harvey, Trevor Harvey (GAv), Dave Sberidan
(SESD), Ricbard Watson (MASD), Ray Newman (LCSD).

The story of the Sub-Aqua Club's £1500 Cross-Channel Swim is on Page 7. Here in the water are (clockwise from top) Andy Bufford (MASD), Robin McQueen, Gayle Brixey (MASD), and Peter Woolmer (ADD).



Here are some of the fancy dressers at the Mad Hatter's Ball, which filled the teapot with £350. Jean Underwood and Loretta Springer of MCD who organised the event, say that special thanks are due to Ali for his excellent disco, Trevor and Hazel Morgon for the buffet, the canteen har staff for their efforts above and beyond the call of duty, and to the helpers who decorated the hall so beautifully. The event was so successful that MCD are now planning a Hallowe'en Fancy Dress Ball on November 1st.

"Well worth the sacrifice" thinks Malcolm Moulton as he receives 'hearty congratulations' from Jan Moss on his new configuration (see last issue). Malcolm thanks everyone who helped him raise £350.



Climax of the Scanner Draw

Chris Smith, 2nd Year Apprentice, had a considerable shock when he was urgently called back from Mid Kent College at lunchtime one Friday in April. But he did wonder a little when he was told to bring his Medway Scanner Appeal company Draw ticket with him.

In the Canteen, Brian Tucker was pulling winning numbers out of the drum, and Chris discovered that one of the two Draw tickets he had bought now entitled him to the first prize, two return tickets to New York donated by Virgin Airlines.

Speechless, Chris managed to help Brian Tucker hand over a £28,000 cheque to the Appeal Secretary Alison O'Connell. The money was the astonishing total received by that day 'towards' the company's target of £25,000 for 1991 - but nine months early.



In all, 104 prizes donated by employees, local companies, sporting teams and clubs were drawn; nearly £5000 worth of tickets had been sold.

Chris, who is now at Hopewell Drive and has spent time in ADD, CQD, and CACD, has generously decided to offer his tickets to his parents. He particularly wants to thank the individuals who offered him spending money for the trip to New York.

AND NOW ... See Back Page for news of the Car Draw.

Brian Tucker shows the winning ticket stub, while Alison O'Connell and Chris Smith proudly display the grand Appeal total so far. Brian said "I have been overwhelmed by the enthusiasm, resourcefulness and generosity of all the people who work at GEC Avionics."

A Random Sample

Here's a completely random sample of some of your contributions, perhaps typical of the hundreds of others which have no record.

CSD Barn Dance £500

SESD Disco £400

Regular sale of "goodies" £620

WES Easter Raffle £123
WES Punks Collection £107
MCD Lottery £250
FCD "Wine and Wisdom" £386
LCSD Disco, "Ghastly Ties",
Raffle etc £850

Raffle etc £850
ISD Pontoon £585
Carol Foster WES Sponsored
Slim £147
CMS collections to date £500

CMS collections to date £500 Ballroom Dance Section £128 CACD collections to date £1150 Security Bus Stops and loose change £37 ISD "Wine and Wisdom" Brainache £248

Accounts Dept Pontoon and Competition £40

Jenny Venables FCD Sponsored Ramble £120

Karaoke Evening £600

Bob Kemlo GSD ran the London Marathon in 4 hours £215.

ADD to end April £1478

CMS Trivia Quiz £125

SESD Dance £400

LCSD Sponsored Slim; Colin Hayman, Chris Scott and Jim Cowell £535

and the Company Draw raised



Raffles, bringing in totals of £539 and £702. Seen bere (with a prize donated by a bung-over patient ??) are Karen Edmonds, Dr Redman, Andrea Pickett, Paula Lawrance, Vicky Oakley and Linda Ali, clockwise.

WHY THE SCANNER APPEAL?

ner" in the early and accurate diagnosis of many medical conditions, particularly cancer, is now well established. The opportunity to acquire one for Medway Health District was lost on the day the battle was

applause! We hope that Peter

Carrington recovered from the

shock eventually, and wish him

A staggering total of over

£680 was collected, even

though many people had

already donated to their own

Divisional collections earlier.

Many thanks to everyone who

gave so generously, and

apologies to the few areas we

didn't manage to reach by the

end of the day.

good luck in his new job.

Easter Bunnies collect

£680

lost to retain our Radiotherapy To secure this vital piece of equipment the Medway Cancer Scanner Appeal Fund was set up in March 1990 with the aim of raising £1 million. year, which would meet lenly all the needs of our Health District. Patients who could not tolerate a long ambulance

A variety of medical condi-

tions can be diagnosed by a Computerised Axial Tomo-graphy Scanner. These include cancer, head injury, internal bleeding, slipped disc and infection. In many instances a

What it will do

The Medway Hospital rents a mobile scanner once a fort-night, thus giving only limited access and resulting in long waiting lists. The emergencies in the intervening period are transferred either to London or to the local private hospital for

tolerate a long ambulance journey, for example those from tached to life support machines, and acutely ill post operative patients, could be investigated safely and at an early stage of the disease. Acute emergencies, particulary head injuries, could have an immediate diagnosis A site has been provided for the CAT Scanner by the Health

With a Medway Scanner, a

great number of patients could be investigated, nearly 3,000 a

year, which would meet fully

Authority within the Medway Hospital. This is in the heart of the hospital, in close proximity to the X-Ray Department, Intensive Care Unit, Accident and Emergency Department and the Wards. Provisional work on the design has already begun.

Colin Morris and Lynn Harrington of CS masterminded the Barn Dance with "Hoe Down" in April. Around 180 people entered into the spirit of the evening like those in this picture, and £500 was raised.



bunnies toured the Divisions just before Easter collecting money for the Scanner Appeal in return for mini chocolate eggs. On 27th March, Gwen Abnett from Cost & Budget led the first expedition to LCSD to collect donations from her old colleagues there. The rest of the Company was visited on the 28th, starting with the Towers in the morning. In the afternoon, the bunnies split into smaller groups to try and cover more The faces of most of the

MCD's bevy of beautiful

bunnies were hidden to protect the innocent, but we can reveal their names here: Loretta Springer, Jean Underwood, Sarah Glover, Michelle Perfect, Jackie Doorne, Tracy Paffett and Allison Clare. The team included rotating substitutes, as the furry outfits were so hot to wear and the job rather exhausting, although very enjoyable. Some of the expressions on people's faces were a sight to remember, when they suddenly saw a bunch of large pink rabbits invading their offices and workshops! group of bunnies accidentally interrupted a presentation speech in MASD and were given a spontaneous round of



GSD started a run of successful "Wine and Wisdom" evenings, run by Nick Walklett. The second, in March, well overtook the first by bringing in £605. Judging by some of the thoughtful expressions here, it wasn't all easy. FCD are also into these evenings; they have already thought up £386 at one event and plan to do even better in June.



Thankyou

man of the Medway Cancer Scanner Appeal and Director of Radiology at Medway Hospital

"Thank you for giving me the opportunity to formally thank the staff at Rochester in your We are now gradually internal newspaper. It has been a magnificent effort considering the short space of time in the short it was achieved. It clearly demonstrates that you can £300,000 in the next nine achieve far greater than what months or so, so that we can seems possible at the outset, proceed with the construction when people set their mind to it. I also gather that the fund

raising efforts so far have been most enjoyable and that many have derived a great deal of pleasure and satisfaction in the process. I and my colleagues on the Appeal Committee are most

What we need is another of the building and installation of the equipment. Any delay at

this stage will throw the project off course by the adverse effects of inflation.

The scanning services in our district are now reaching a critical point where the burden is becoming far too great, both for the patient and for those of us who are trying to provide it.

will continue to give your support and bring the day nearer when we can have our own Body Scanner for the people of Medway"

Adventure of a Lifetime for Paul

Last spring. Paul Everson of Applied Physics Division. Bore-hamwood was one of the people from 17 GEC Companies chosen at a highly competitive weekend at Dunchurch Management College, to join the GEC Young Employees' Expedition which went to Nepal in September.

Paul recalls that following a summer of 'development train-ing' of personal skills and of planning and fund-raising, the team finally met at Gatwick for a 15-hour flight to start the 'real' part of the project. This was to be a 5-week trek to conduct glacier research 19,000 feet up in the

Katmandu we roamed the streets absorbing the fascinating sights sounds and culture of this remarkable city. A reconnaissance in June had contacted a trekking agency. When we arrived a lot of work was already done, but a had to be bought, sorted and

On the third day, 30 or so por-ters, two Nepalese guides, the 21 of us (18 young employees, a doctor, a science adviser and the expedition adviser), set off in two fully laden buses to the roadhead at the town of Jiri. The journey gave us our first distant views of gave us our first distant works of the breathtaking beauty and isolation of the distant snow-capped Himalayas. At dawn the next day our trek began, for four weeks our lives were to be carried on our backs and the only transport was by foot.

were bruised. The porters bound-ed along barefoot carrying loads twice as big as ours. From the wet, lush lowlands of the first few dryer, colder and harsher as we

After two weeks we left the last village behind. We had swapped porters for yaks and headed out into the snowy wilder. along the way, saw us onto a small glacier at 18,500 feet. Part



work, the rest ferrying supplies from the lower camps be sorted and weighed.

tamination. The results will lead to a better understanding of the

A second, higher glacier at 19,000 feet was chosen as the drill site. Eight of the team spent two days digging a pit 2 metres deep. From the bottom of this pit we drilled down into the ice for samples. The atmosphere was thin, the wind biting. We worked in one-hour shifts, for the work was exhausting. Our only stove would not light, and we worked frantically to get it started. We had run out of water, and resorted to eating snow to quench our thirsts. The stove was repaired, and the evening's hot meal was

Every single member of the team did some work on the lower glacier, a remarkable achieve-ment. The science work was a

Past the last village, into the snowy wilderness.



Nearly a tonne of food to

All too soon, we were packing up and heading homewards, showers and flushing toilets beckoning. We arrived back in Katmandu fitter and perhaps a little wiser, our adventure nearly over. In the last days, we explored the city again, it seemed different.

Although the expedition was almost over, memories would always remain. Women bringing

Obituaries

Colin Fielding-Clarke

The staff of Applied Physics Division were saddened to hear

Colin, a Valve Technician on the vacuum tube programme, had worked in the division for 17 years. He was a well-read

Fred Stockton

Fred Stockton, the Quality Assurance Manager of Guidance Systems Division who has died aged 51, was a friend to all of us and was equally well respected by his staff, his colleagues in the divi-

Fred was born and educated in Keighley and joined the RAF as an apprentice from school. After 14 years service the RAF he company in the QA Depart-

doctor. Being the centre of attention at each village, children playing around our tents, men eager to be taken on as porters. Washing under waterfalls or in along the route. Swapping storie with fellow travellers. The uncomfortable, sleepless nights spent freezing at 19,000 feet. The postcard landscapes of the moun-

I would like to thank everyo

ment of IN Division in 1969. He rapidly became a popular mem-ber of the division as well as being recognised as capable and conscientious to the extent that within 3 years he became a Sen-ior QA Engineer, and Deputy QA Manager of the division ear-ly in 1974. In 1979 he was ap-

Division and in 1987 he became QA Manager of GSD.

Fred was a homelover and a keen home improvement man. He leaves a wife Sybil, married daughter Dawn and grandson, and son Gary.



Quality Technician Elwyn company called upon his trade experience of the theory and practice of carpentry, when he had to be rescued through the roof from behind a Locked Door. After that he settled into AS&R/LCSD working, at first in the clean room, on a wide range of electronic equipment.



Jean Wilson, Secretary to the Physics Division, has also worked for the four previous DMs during her 25 years in the



years as Sales Secretary in the former MACD and was then in DAD, forerunner of ADD, where she worked for Ken Warren, now an MP. In 1970 Lorna became Secretary to Jack Pateman, and since 1977 she has been Travel Manager in charge of the office which is now dealing with around 2000 travelling arrangements in a year. Lorna has also often been a key member of the company's teams at major events and exhibitions such as Farnborough.



Geoff Woodley, a Principal Engineer now in FCD with the worked on military pro-grammes. Following his Student Apprenticeship when he studied at Bradford University, Geoff was in MACD, old FCD and CACD, lately with several years on Tornado. He was also a mem-ber of the FCD/CACD team which won the Haskett Trophy

Laurie Owen has retired from Applied Physics Division. Although with APD for only the past 2 years, he had over 33 Chief Draughtsman for the Radar divisions of the former Marconi - Elliott Avionic Systems (MEASL) at Boreham

Harry Jones of ISD's Data Management Group spent his 24 years in Transport Aircraft Con-trols, then in IND(GSD) and MASD, before moving again in 1988 to ISD where he was a

In AS&RD/LCSD, Scott (Jock) Ganson was looking for Air Arm and RAF, much of it in VIPs such as HRH The Prince of Wales and Harold Wilson was an ideal preparation for him to years were in fact very busy in

Ken Oliver, Reprographic Administrator in LCSD, and ex Royal Marine and TA man, was startled to be the only 64-year old to receive call-up papers for the Gulf. More peacefully, he has spent 15 years at GAv as the last stint of a long career in the printing and packaging industry.

Charlie Tanton, Leading Hand in ADD Model Shop, has taken early retirement after nearly 20 years in ADD - before which he was in Fuze Division.

Most of Alan Boorman's 18 years were in IND/GSD Library; he has retired as Chief

when he left the Royal Navy but soon moved to IND, in 1969.

John Hayhow's 30 years have been in Electrical Inspec tion and Planning areas, firstly in IND and then in CACD.

Alex Hill has retired as Sales Manager in MCD, previously PSD where he had moved in 1978. The early part of his 27 years here was spent in ATED, where he became Chief Engineer. Now Alex is 'starting Kent University to study history

Wedding

recently to wish Julie Stott every happiness in her marriage to Richard Starling on 13 April.

Julie who has been Welfare Officer for 5 years, was presented with a number of gifts by Tony Williams, Personnel Manager.

GEC AVIONICS (ROCHESTER) LONG SERVICE ASSOCIATION

The Eighth Annual General Meeting and Strawberry Tea will be held on FRIDAY 21st JUNE at 7.00pm in the Lounge Bar, Main

Sub-Aqua Club's **Channel Swim**

This year the GEC Avionics Falcon Divers decided to com- £1500 for the Scanner Appeal. bine their annual Open Day at Cancer Scanner money raising bers were recruited to the club. Dives', demonstrations and static exhibits occupied one members, who provide able assistance on the day. side of the pool, on the other side relays of divers attempted to swim the equivalent of the Dives, here with Dave to swim the equivalent of the English Channel underwater, a Betts of CACD introducing total of 21 miles or 1500 total of 21 miles or 1500 young and not-so-young to lengths. This feat was achieved life under water.

A most enjoyable day was the Social Club pool with a had by all, and many new memevent. So while the normal 'Try Special thanks are also due to the wives and girlfriends of members, who provided invalu-

A popular feature of the





Broome Park 30 December.

ished in March with the Annual Dinner Dance and Prizegiving at the GAv Club at Hoo, a most enjoyable evening. Our President Alf Harrison came along, and is seen bere banding the Alf Harrison Cup to Alan Ward (ADD).

Swimming Change of Name for the Section Social Club

to the GEC AVIONICS

Peter Bird, newly appointed Secretary, explained that fol-

lowing the purchase of the club

9 years ago, a very considerable

sum of money has been put into

it; it was now felt that the name

Saturday 15th June

Country &

Western

Evening

"Johnny Young"

7.45 - 11.45

KARAOKE

Evening

DON'T FORGET - The Swimming Section are holding a Sponsored Swim in aid of the At the 9th Annual General Medway Scanner Appeal dur-ing June. Check notice boards Meeting of the GAv/BP Kent Club, a proposal to amend the Constitution put forward by the Management Committee jority. The motion was to change the name of the club

Golf Section

was at Sene Valley near Ron Mutter (GSD) just hap-pened to take first prize with 76 points. Our immediate past captain Peter Fowler (CACD) was runner-up (pipping Ernie Worcester on a count-back) with 71. All will be pleased to know that handicaps have been

(including our first-ever lady member - Welcome!) we look forward to another successful

Forthcoming events: Tri-site match (north) 3 June; Walmer 27 June; Tri-site match (south) North Foreland 4 October:

Enquiries for membership to Mike Broome (GSD Engineer-

The 1990 season finfor being the Singles Knockout winner in 1990. will not be affected. The new Vice-chairman Jim

GEC AVIONICS CLUB

ATTRACTIONS

NOTICE

THYME CATERERS

Collins had commented earlier, that over the nine years subsidies to the club from the company have amounted to £1.2 million, and the recently completed improvements have

The work caused disruption and loss of income, but the improved and enlarged facili-ties are now being used more

change should be made in Tributes were paid to the thanks to the company for many years of service for BP

MUSIC

in the

BAR

Saturday 27th July

Parlour

Derby

General Secretary Maurice Finch; to Jim Collins, now Vice-chairman, for his long service both at the old Featherby Road club and lately as Social Secretary; and to Bill Alexander at his retirement as Club President for the tremen dous amount that he has done

Brian Tucker now takes over as President and following the election of four new GAv members, with one each for BP and Fishers (all marked *), the now as follows:

John Bradley Vice-Chairman:

Members: Rod Cole - CQD

* Keith Jones - c/o WES Hugh McArthur Training Dept (Hopewell

* Cyril Moffett -FCD Production

LCSD Production & Repair Jim Troy - CACD Admin

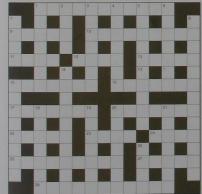
* Roy Wade - Security * Dennis Killingbeck - BP Terence Oxenham - BP

* Robert Bruce - Fishers Appointed Members:

Mark Perry - GAv Accounts Valerie Squires -GAv Accounts

Secretary: Peter Bird

Clubhouse - Medway 251492 Short Code 6009



1. Pop song writer's mecca. (3,3,5)

10. To forfeit honour, prestige.

11. Oxford River. (4)

12. Bill of fare. (4) 13. Without a settled place. (5)

15. Tapering flag. (7) 16. Like the stars at night a'gleaming. (7)

17. Do this in the mind. (7) 20. Collects. (7)

23. Cheeky youngster. (4)

24. The angler's quarry, (4)

26. Recital of connected events.

28. Controlling impulses of sen-

1. What the tutor gives. (7)

2. Girl's name in short, ask

3. Sickness. (7) 4. An attack, physical or verbal.

5. Holder of certificate from examining body. (10)

6. Eastern lady's veil. (7) 7. Surely 'tis done with water!

14. Light coloured egoism, especially of ladies. (6,4)

19. Out it goes! (3,4)

25. Grain prepared for brewing.

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the staff photographers will be acknowledged by their initials

Ian Douglas.

Central Charity Fund

helps Local Care Scheme



The Rochester Crossroads Care Attendant Scheme was started in 1981 to provide a relief service for people who care for relatives who are sick,

For Sale

Complete set (10 Volumes) of Marshall Cavendish "On the Road". Perfect condition in Binders. Offers over £30.

Bids, in aid of the Scanner Appeal, to Harry Staff, Ex 3674.

disabled or handicapped. Look ing after someone who requires constant attention means it can be very difficult to have a break, even for a couple of hours to go shopping, attend a medical appointment or just to take a much needed rest.

The Crossroads Care Attendant is someone who will come to your home to look after the sick or disabled person for an agreed period of time, on a regular basis if needed. The service is provided free of charge, so the success of the scheme depends on fundration

The Central Charity Fund has made a donation to the Scheme; in the picture are Dinah Taylor (Welfare Assistant), Doreen Miller the Scheme Co-ordinator, and Jenny Lamont, Fund-raising Co-ordinator.

If you know anyone who could benefit from this service on Medway 716238 for further information.

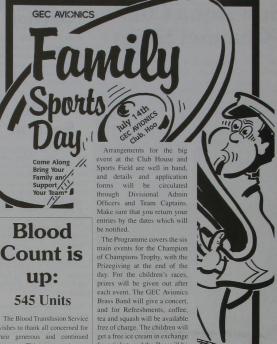
Blood up:

wishes to thank all concerned for in the Rochester/Cuxton/ their generous and continued Halling/Isle of Grain area, support. This was quite an please telephone Mrs. Doreen
Miller, Scheme Co-ordinator,
another valuable contribution to
GEC Avionics M the blood bank.

> The next visit will be on 30th September for one week.

for a ticket, and the Bar will be

GEC Avionics Management hopes that all members of our extended family will enjoy this Family Sports Day - 1991.





COULD WIN THIS CAR

SUMMER DRAW

in Aid of The Medway Scanner Appeal

FIRST PRIZE

VAUXHALL GL1.6 4-DOOR SALOON

worth £13,300

(Car supplied by Greens of Rainham)

TICKETS £1 EACH

Available to all GAv employee: based in the UK.

Tickets on sale by Scanner Appeal Committee representatives and Divisional Admin Officers.

DRAW TO TAKE PLACE IN EARLY AUGUST

Many other exciting Prizes including

- Day Trip to France
- Day Trip to Holland
- BSM Driving Lessons
- Go-kart Driving • Glider Flight

