

GEC Avionics
NIMROD:
 They way ahead
 See Page 3

GEC Avionics
AC triumph in
Centenary Run



A RECORD OF TEAM AND PERSONAL ACHIEVEMENTS

Duke of Edinburgh's Awards Presentation Evening

GEC Chairman, the Rt. Hon. James Prior MP, came to Airport Works on Tuesday 14th October to present Award Certificates to around 60 young people from the Medway area. Gold, Silver, and Bronze Awards were given in the presence of parents and representatives from sponsoring organisations headed by Kent County Council Education Department, and schools, at a gathering in the main canteen hosted by the company.



Mr Prior had an individual word with each Award winner, and in a general comment to the audience said "This is one of the most worthwhile events I have attended recently—I am immensely impressed by the efforts of these young men and women and those who organise the activities."

The Chairman with three of the Award winners, who are now working with GAv. (l-r) Trevor Hunt (Silver), Trainee Computer Programmer, attached to PSD; Mr. Prior; Steven Stringer (Gold), A Commercial Trainee now in AS&RD; Paul Brien (Silver), Project Admin Clerk, ADD. (A)

GAv AC scored the remarkable "double" of team and individual Firsts in the GEC Centenary Run which was held near Rugby in September, hosted by GEC's College of Management, Dunchurch.

More than 1500 GEC employees from over 100 companies took part. The race, which was a half-marathon of 13.1 miles, was organised by Dunchurch as part of the GEC Centenary celebrations. Runners were aged from 16 to 65 and were raising money for charities all over the UK. The event included a special charity fete organised by Rugby Crossroads, one of over 100 Care Attendant Schemes giving help to physically and mentally handicapped people in their own homes. From this huge field of runners, GAv AC's First Team placing was achieved by **Andy Saker** (First Place individual with a time of 1:10:04), **Adam Bridge** in 3rd place, and **Mike Sheridan** in 7th. In addition **John Roots** 9th, **Malcolm Osborn** 29th, and **Eddie Broad** 49th, made up a B Team placing of Fifth. Twentieth Team Place was scored by **Mo Jury** (58th), **Ian Broad** (50th), and **Peter Tattersall** (251st). A most creditable performance this one — Peter (FCD) had not run in an event till now. Also spotted among the individual results were **Mike Bibby** (365th) and **Len Horlock** (48th) who with **Robert Bessant** (440th) achieved a team placing of 51st. To put all into perspective, 268 team results were declared. Well done all!

...and in London Road Relay

On Sunday 28th September, GAv AC won the 36th Annual London Business Houses AAA Road Relay over 4 x 2 3/4 miles, at Kingsbury The 'A' Team were **Mike Sheridan** (5th, 14:35), **Simon Rayner** (1st, 14:12), **Jon Rootes** (1st, 14:35) and **Graeme Saker** (1st, 14:18). 'B' Team were **Wilby Burns** (9th, 15:18), **Malcolm Martin** (6th, 14:34), **Clive Smith** (6th, 15:53) and **Paul McAuliffe** (6th, 14:34).

STOP PRESS
 FCD breakthrough into US civil market—final contenders for 'fly-by-wire' flight control computers in Boeing's new 737 airliner.

GEC NYEC '86: Same result - Different route!!

The team arrived in Wales two days before the competition for some mountain acclimatisation and to spy out the competition sites. After a short introduction by the organisers, the team were whisked off to Llan-gorse Lake for the first afternoon's activities, all water based. The team were all ready, fully trained, and proceeded to totally ruin the first two events, dropping about 400 points on the leaders, what a start! The team's character really showed now as with a little advice and a lot of encouragement they went on to win the next two events to gain 10th in their zone, about 45th overall.

The second day dawned with a full realisation of the task in hand; no more slips were acceptable so they took the orienteering course to pieces scoring a 1000 point maximum in the fastest time of the zone — now they were up to 7th in their zone. The rest of the day was spent

solving 8 'small' problems. Drawing on skills as diverse as BMX to semaphore, they scored well with 4 maximum and consolidated their 7th place lying between 25th and 30th in the overall positions. It was about this time that we 'heard' about the knitting! Imagine the scene, 11.30 at night in the hotel room, trying to remember how to knit on two pencils using string, we just hoped our intelligence information was true.

The final morning, and we all knew it was now or never, no slip at all was possible just to reach the finale, the team never let us down. Two records out of 4 events and we got up to 4th in the zone and joint 11th overall to enter the best 12 finale — only just.

The finale was again a very difficult assault course including a 14' wall and then plastering a ceiling. The performance of the team was such that they gained 2nd highest points and finished a courageous 5th overall — just as last year.

Dave and Steve, the reserves, worked tirelessly all weekend but also had to bear the brunt of frustrated team managers' bad tempers, they really helped to pull the team through. Training Officer Derek Harvey's 'Stirling' efforts with the van winning many 'Le Mans' type starts will only really be appreciated by those who were there; the Archery and Rifle clubs did us proud again and were responsible for at least one record.

Finally, I know the team really

appreciated John Bradley turning up on Sunday to cheer us on and his sharp eyed observations during the earlier heats of the finale were invaluable. Well done team, marvellous effort but what could have been...

The lasting memory however must be of our largest team member (who wishes to remain anonymous) sitting on a straw bale, wearing his safety hat and quietly knitting away
LEN MARTIN
 Team Manager

GEC National Young Employees' Competition '86
GEC Avionics (Rochester) Team
 Top: **Steve Quinell**, Electronics Technician Engineer Apprentice (ADD)
 left: **Derek Watson**, Trainee Computer Programmer, (MASD, at College now)
Kevin Oliver, Student Technologist, (at College now)
 bottom: **Gary Lampkin**, Technical Assistant (MASD)
 Reserves, on right: **Steve Tyrrell**, TCP (PSD, at College now), **Dave Gwynne**, TCP (MASD, at College now).



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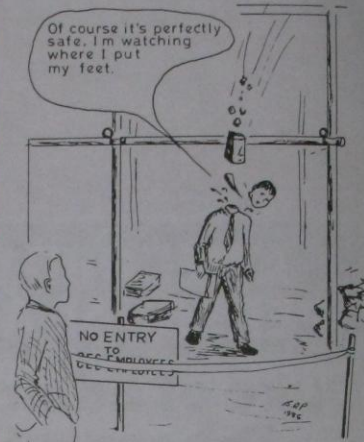
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 Barry Wallington, Training Centre, Joan Golding, ISD
 Ken Castle, Ann Smith, ATED
 Maurice Sparham, CDD (Flying School)
 Phyllis Ellis, CMS

Volunteers should offer their service through Divisional Administration Officers or direct to the Editor.

Printing award for Central Reprographics

For last Remembrance Day the company provided the printed programmes for the Charity Show at the Central Hall, Chatham. They were designed and printed by Central Reprographics. Chris Guttley, Section Leader Offset Printing, was delighted to receive a letter from organisers of The

INPLANT and INSTANT PRINTER first Annual Awards, stating that the programme has been Highly Commended in the "Sakurai Award", among fierce competition of over 250 entries at a very high standard. The Award will be presented in December. *Congratulations.*



AS&RD Snooker Competition



16 Snooker Stars of the future entered AS&RD's inaugural Snooker Knockout Competition, which produced several closely fought frames, although because of the intense pressure, century breaks were rare (sorry, non-existent). Rounds 1 & 2 were fought over 5 frame matches whilst the semi and final were over a gruelling 7 frames, which Trevor Swift won 4-2 over runner up Gary Whitcombe. Pictured with Bill Guscott (chairman of AS&RD Entertainments Committee) are Trevor Swift (Winner) and Gary Whitcombe (Runner up).

Bill is seen presenting the trophy which was kindly donated by AS&RD's Entertainments Committee.

The competition was such a success that another is planned later in the year.

Mick Thomas

GEC AVIONICS Annual Christmas Ball

**GREENWAY HOTEL,
WEST MALLING**

Monday 22nd December 1986
8.00 p.m. to 1.00 a.m.

Tickets £6.50

All Rights of Admission Reserved

**Dancing to
THE ANDY ROSS ORCHESTRA
and SINGERS**

"MISTY"

Doors open 7.30 p.m.

**A Running Buffet will be served from
8.30 to 11.00 p.m.**

Chatham Old People's Welfare Committee Christmas Bazaar and Sale of Works

**Saturday 29th November
at the Day Centre
Riverside, Chatham**

**Refreshments Grand Raffle
Please come and support
our Old Folk**

FOR SALE

MOTHERCARE WOODEN PLAYPEN—
HARDLY USED, VERY GOOD CONDITION
WITH NEW PLAYMAT

£25 o.n.o.

Please contact—Ian Douglas ext. 3372

Reminders

Halifax Building Society are available to talk to employees every Thursday between 12.30 and 2.00 pm. Appointments should be made through Christine Carter in the Personnel Department on Ext. 3417.

DON'T MAKE A MOVE WITHOUT US.

It's difficult to keep a seller interested while you're waiting for a decision on your mortgage.

That's why our mortgage service is designed to cut down that anxious period of uncertainty. Often we'll give an on-the-spot reaction to your application.

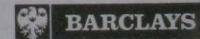
A Barclay's Home Mortgage is flexible too. You can choose between a repayment or endowment mortgage or a combination of both.*

Then once you've passed the normal credit checks and your house has been valued, we'll give you a firm commitment.

For more information about our Home Mortgage Scheme drop in and see Kevin Garner at our GEC branch—he's there from 12.30 pm on Wednesdays, just make an appointment with Christine Carter in your personnel department.

If you want to find out about any of our other services, our Personal Customer Clerk—Veronica Lee is at our GEC branch to help you.

Written details are available from Kevin Garner, Barclays Bank Pl.C., 39 High Street, Rochester, Kent ME1 1LW.



Barclays Bank are also here every Wednesday from 12.30-2.00 pm to discuss Loans, Overdrafts and Investments. Appointments should be made through Christine Carter in the Personnel Department on ext. 3417.

*Security is required.

GAV/BP KENT CLUB 5th AGM

**THURSDAY
19th FEBRUARY 1987
8 pm in Ballroom**

Members are hereby advised in accordance with Clause 6 of the Constitution

**PROPOSALS TO BE
RECEIVED BY
21st NOVEMBER 1986**

FARNBOROUGH '86

The bi-annual Airshows at Farnborough are one of the most important marketing and show-window events in the aerospace industry. Although little actual business is completed there, it is for all participating companies a vital opportunity to make and renew personal contacts with senior executives from customers, suppliers, government organisations, and military and civil aircraft manufacturers and operators. In today's competitive markets the chance—rather likelihood—of introducing new potential or following up business already in hand, cannot be overlooked.

For GAV, this year was no exception. Many months of planning by Exhibitions Manager Roland Thomas and his colleagues, subcontractors, Divisional and Company marketing, sales and engineering staff, resulted in what was generally thought to be one of the more impressive and relevant stands in the exhibition hall. This was visited by a host of people from all levels within the aerospace industry and its customers, as well as the general public.

The products and capabilities of nearly 20 divisions of GAV were on display, around 60 people from all sites were acting as stand manners and chalet hosts over the period of the show, senior management to engineers and receptionists. These were supplemented each day by many more from divisions at all GAV sites giving technical support and acting as hosts to their guests.

As always, the company's private 'chalet' was the centre for entertainment and information for clients and people important to our business. Here also, on the 'Press

Day', the Company made known to correspondents from national and international press and technical journals, a number of new developments and achievements as well as reviewing existing programmes. This year a record number of representatives attended the press conference.

Bill Alexander, newly appointed as Managing Director, welcomed journalists and after introducing GEC Chairman James Prior MP, with Jack Pateman in his new role and top GAV managers, went on to make the first announcement of two major orders. These were ADD's \$9 million HUD order for the latest US cargo aircraft, the McDonnell Douglas C-17 heavy lift STOL transport, and Aeradio Products Division Basilidon's VHF/UHF communications system AD 3500 which is to be installed in the RAF's GR5 Harrier fleet. Among other projects mentioned were CACD's "Silicon Pilot" fly-by-wire flight control system for the EAP, and the innovative T3A Total Terrain Avionics proposed for future 'stealth' aircraft, now starting flight evaluation and development in a Hunter at RAE Farnborough and with the US Navy.

A separate press briefing was held on our proposal for the radar system for the European Fighter Aircraft, together with AEG and Hughes. Airborne Radar Systems at Borehamwood will be much involved in this further development of the established and proven APG-65 radar already in service on F/A-18 aircraft of 5 nations.

The flying display, always the main 'public' attraction, was not able to show off as much GAV equipment as



GEC Chairman James Prior MP with Bill Alexander, Kevin Mace of ADD is explaining the range of HUD's on display.



A general view of the GAV exhibition stand, featuring the globe inset with holograms giving 3-D pictures of six of our best-selling products.

usual, owing to the almost complete absence of US aircraft. However the highlight was the demonstration put on by the EAP. Delays in the programme for the maiden flight had meant that although the unique fly-by-wire system computers were of course on full authority, the software was not yet installed to enable the pilot to

demonstrate the full flight capability. Nevertheless the performance was startling and gave more than a hint of the tremendous potential of the aircraft.

Certainly GAV can have tremendous confidence with the existing and planned products on show at Farnborough.

FCD's Falconet achieves Dual Mode Launch Capability

The first flight control computer capable of supporting both launch methods for Falconet was successfully demonstrated at the Hebrides range. Falconet is the advanced sub-sonic aerial target produced by Flight Refuelling Ltd., for use in practice firings with Rapier. It is normally launched from a carousel (a circular runway) but recently trials of zero length launch using booster rockets have also taken place. The new flight control computer can support both modes of operation from within a single unit.

This milestone in Falconet development is the latest of a spate of such achievements over the last few weeks. The vehicle which first flew in February 1982 completed some 30 flights at Larkhill before being moved to the Hebrides range in February 1985. There, it has achieved 137 flights with up to five flights on one day and up to nine presentations in one flight. The vehicle, which flies at more than 400 knots, performs presentations for the missile operators doing turns of up to 4g and flying pre-programmed manoeuvres aimed at simulating the tactics of attacking fighter aircraft.

Not only have alternative launch methods been demonstrated but alternative engines have also been fitted and the aircraft is now capable of operating with any one of three types. To date, 20 development and 40 production flight control computers have been delivered.

The system has now been formally accepted by the Ministry of Defence on to the Hebrides range and is expected to continue to provide a realistic threat simulation for practice firings of ground to air missiles. Future developments aimed at providing extended facilities such as sea-skimming are currently being investigated.



The FCD Flight Refuelling team at the practice firings.

Standing left to right:

Kerry McCandlish (FR), John Ashley (FR), Colin Slater (FR), Paul Duxbury (FCD), Donald Campbell (FR), Iain MacCraig (FCD), Mike Pullman (FR), Jock Kyle (FR), Mike Thom (FR), Callum Robertson (FR), Donnie Graham (FR).

Seated:

Jerry Bate (FCD), Julian Dean (FR), Doug Braid (FR).

GEC Avionics NIMROD: The way ahead

The tremendous achievement by the GEC Avionics Borehamwood team working on the AEW Nimrod project was underlined on Thursday, 2 October, with the announcement by the Ministry of Defence that the Company has been selected as one of the two finalists in the competition for Britain's AEW System. In his statement to the Press, Lord Trefgarne, Minister of State for Defence Procurement, confirmed that the GAV System now has the potential to meet the RAF's requirement in full. Since GAV took over the running of the contract at the end of March the technical problems which had been

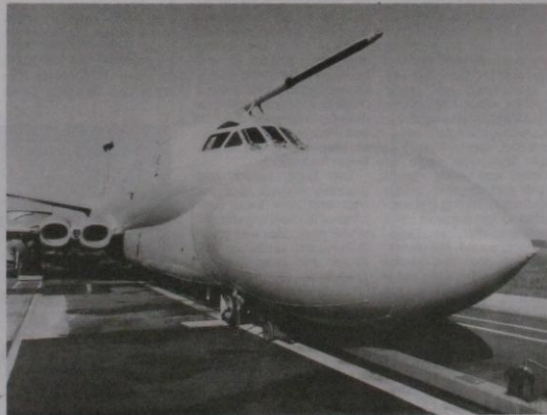
defined by the MoD and the RAF have been resolved, demonstrated in flight and the results analysed on the ground. Visitors to the Farnborough Air Show were able to see the Development Nimrod DB2, which has the improved equipment installed, flying over the Air Show. These were actual flight development sorties during which official observers saw for themselves the improvements in the radar.

Since then the Company has demonstrated them to members of the World Press at the Radlett facility.

The team has now earned a credibility equal to that of the Boeing AWACS which is

now its only competitor. Despite the fact that the Boeing aircraft is very much dearer, and the excellent export opportunities which exist for GEC radar in the Lockheed C130 Hercules, the competition will not be easy. The team can take heart from the tremendous strides it has already made, and from the fact that the aircraft is now proudly referred to as the GEC Avionics Nimrod, which recognises the effectiveness of our project management.

With most of the technical troubles behind them we want to concentrate on what we do best: giving the RAF a system they can be proud of.



GEC Avionics Athletics Club

Winter Fixtures 1986/87

November

1 Inter Club Handicap Cross Country 5 miles	Mote Park
Reigate Cross Country Relays	Reigate Cranford
London Business Houses Junior Championships	
2 Kent Womens Cross Country League	Sevenoaks
8 South of the Thames "Junior" Kent Y.A. Cross Country League	Sparrows Den Hoo
National Womens Road Relays	Manchester
15 Southern Womens Cross Country League	Parliament Hill
16 Rochester 5	Rochester
23 Kent Womens Cross Country League	Dartford
29 Kent Senior Cross Country League	Hoo
Herne Hill Y.A. Cross Country League	Brockwell Park
Southern Womens Cross Country League	Welwyn Garden

December

6 London Business Houses Cross Country	Ruislip
13 Kent Cross Country Championships	Mote Park
14 Kent Womens Cross Country Championship	Hythe
20 GEC Avionics Road Races	GEC Factory
21 Kent Y.A. Cross Country League	Canterbury

26 Inter Club Cross Country Start 11.00 am Mote Park

January

1 Erith Road Races	Erith
3 Southern Womens Inter Counties C.C. Championships	Harrow
Kent Veterans Cross Country Championships	Beckenham
North Kent Cross Country Championships	Beckenham
10 Southern Counties Cross Country Championships	*
Beryl Davis Womens Cross Country Races	Footscray
17 Herne Hill Y.A. Cross Country League	Brockwell Park
National Womens Inter Counties Championships	Corby
Inter Club Cross Country	GEC Factory
24 South of the Thames "Senior" C.C. Championships	Wimbledon
25 Kent Womens Cross Country League	Hoo*
31 Inter Counties Cross Country Championships	Derby
Inter Counties Cross Country	Shrewsbury
Southern Womens Cross Country Championships	Epping Forest

* Venues to be confirmed.

GEC Avionics Athletics Club

Dinner and Dance

Friday 5th December at the Clubhouse, Hoo

Dancing to "Connexion"

8.00 pm to 1.00 am

Tickets £7.00

THIS YEAR THE COMPETITION WAS HOT

Thursday 3 July, 7.00 pm and the watches to record the times for the great ADD Bike Race, the "Tour De Medway" are synchronised. Pat Herbert, the first starter and the old lady amongst the 24 riders waits nervously on the line for the countdown to begin. The questions posed before the race, are many. Would Derek Avey who so desperately wants to win, do so? Would Jim Beaney, winner for the last two years and barred from this year's event but riding as guest, still produce the fastest time? Would one of the known fastmen from previous competitions win or would the trophy be awarded to one of the unknown quantities from production? All would shortly be revealed.

The usual scramble to obtain a bike for the race had taken place. Alan Ward was lucky, he had an option on two but Tim Horrell had managed best by obtaining a thoroughbred racer. Derek Avey was the pre-race "hot favourite" and his machine was the latest that technology could produce. This was a streamlined low profile machine with a computerised LCD digital display showing such instant data as: — revs per minute, speed in mph, lean over angle on corners and bends, rate of climb and descent. It also produced stirring speed-inducing music on mini compact disc in quadraphonic sound. His professionalism extended to the degree that he even put a cigarette card between his wheel and frame. Other known fastmen were Kevin Williams and Chris Dardry. George Cooke, Tim Horrell and John Crennell were also strongly tipped.

A large crowd had gathered at the start and cameras were clicking as the searing heat bore down on the competitor's heads. Tension

was mounting and Pat Herbert shot away on a false start. Back she came and the race began. Much of the start was uneventful until Mark Butcher who with 15 seconds to go was nervously pedalling backwards and ran his chain off. In the mad scramble to put it back on he got covered in grease and left looking like a panda bear. By now the faster seeds were coming to the line. Chris Dardry on his old Claude Butler, then Derek Avey not looking quite so confident as the pressure seemed to get to him. The last seed to go was Kevin Williams of the famous "Williams cycling family". He was followed by Jim Beaney the first of two guest riders, the Tour was on.

The well known 9.5 mile course starting outside Comets, going through the villages of Borstal and Burham and culminating in the climb of the great Col du Bluebell is very hard; riders were now fighting their own battle of will to keep going and stay ahead of the hounds or catch the hares. Dave Haggerty was having a battle of a different sort, that of trying to keep his chain on and Alan Ward that of trying to keep his ample shorts above his knees.

The large crowd had gradually moved from the start and now lined both sides of the finishing straight where each rider was given enthusiastic applause. Phil Turner and John Crennell produced a grandstand finish sprinting for the line side by side to the delight of the crowd.

At the bottom of the hill, Chris Dardry was feverishly twiddling a very low gear but was seen to be making good progress. It was here that Derek Avey attacked strongly but by the top of the hill he was thought to be losing form. Again at the

bottom of the hill, Kevin Williams was pushing a big gear and he had a big shock when he looked around to see Jim Beaney close behind. A cold sponge at the Lower Bell and some timely encouragement by the "Williams Family Racing Team" did the trick as the gap remained the same to the finish.

The ADD Tour De Medway was over for another year and the timekeepers went into hiding to work out the results. Speculation was rife and all eagerly awaited the announcement of times and positions. The committee was very pleased that Dave Marvell (after whom the winner's trophy is named) was able to be present at the race and also present the prizes. In his address, Dave apologised to the competitors for the hill at the end but it is the hill that gives the course its character. When the announcement of positions was made several surprises were in store. In equal fourth position were surprises 1 and 2, in a time of 30 mins 07 seconds Tim Horrell had lied with Derek

Avey. In third position was the whippet from Calibration, John Crennell. The fight for second and first place was extremely close. Kevin Williams' heroic climb of Bluebell Hill was not quite good enough for him to get his nose in front. With a time of 28 mins 36 seconds Chris Dardry had won a marvellous race by just 4 seconds. With the race over the inquests began, some were saying they will not ride again but others saying they will win next year and if only I hadn't eaten that extra sausage for tea I would not have been sick. This year's race was the closest and probably best yet and the committee congratulates Chris Dardry and the other prize winners. Thanks are due to all the timekeepers, and marshals and to the many spectators for helping to make the event successful. Finally, what of Jim Beaney—the organising committee were proved justified in barring him because with a time of 27 min 56 sec, he would have won again!

Steve Coates



Derek Avey, maybe he should have got off and milked it



Chris Dardry in winning form

ADD Bike Race (Tour de Medway) 1986 Results

Name	Engineering	Time
1. Chris Dardry	Engineering	28:36
2. Kevin Williams	Tech Pubs	28:40
3. John Crennell	Calibration	29:58
4 = Tim Horrell	Model Shop	30:07
4 = Derek Avey	Model Shop	30:07
6. Mike Bloore	Engineering	30:45
7. Martin Redfern	Engineering	30:57
8. Phil Turner	Engineering	30:58
9. Paul Elliott	Production	31:14
10. George Cook	Model Shop	31:34
11. Paul Lawrence	Inspection	32:10
12. Andy Baines	Production	32:31
13. John Seabrook	Engineering	33:09
14. Steve Coates	Model Shop	33:36
15. Charlie Oliver	Engineering	34:05
16. Nigel Seamer	Model Shop	35:07
17. Alan Ward	Engineering	35:29
18. Mark Butcher	Drawing Office	36:24
19. Andy Faupel	Inspection	36:35
20. Mark Tickner	Model Shop	42:05
21. Pat Herbert	Drawing Office	43:01
22. Dave Haggerty	Engineering	47:13
Guests:		
Jim Beaney	Drawing Office	27:56
Dave White		34:25

CACD gains foothold in US

Douglas Aircraft Company of Long Beach California, a Division of McDonnell Douglas Aircraft Corporation, has selected CACD to supply the Yaw Damper Computer for its new T-45A trainer for the United States Navy.

The value of the order for design, development and prototype units, together with initial production options, exceeds \$2 million. It was won against strong competition from American

companies specialising in automatic flight control.

The order is particularly significant for GEC Avionics, being the first it has won for production flight control equipment for a United States combat aircraft. This adds a further system type to the range of aerospace equipment which the company supplies to the US, including Head-Up Displays and Air Data Computers. US Navy requirements alone for the T-45A, due to enter service in

1990, exceed 300 aircraft with the total production quantity including exports anticipated to be 1000 aircraft.

The Douglas T-45A Goshawk trainer is based on the British Aerospace Hawk airframe, and incorporates systems specifically designed to meet US Navy requirements, which include carrier operations. The Yaw Damper Computer provides automatic stabilisation in yaw

during takeoff, landing and approach.


The Computer does this by providing signals to damp out the aircraft's rate of yaw sensed by a gyroscope mounted in the computer. The signals drive an electric actuator of Douglas design, which operates the rudder in series with the demands from the pilot. It thus augments the aircraft's yaw stability without moving the rudder pedals.

**GEC AVIONICS
BP KENT CLUB**

Festival of Nine Lessons and Carols at ALL SAINTS CHURCH

Magpie Hall Road Chatham
Monday 15th December at 7.30 pm

with the
GEC AVIONICS BRASS BAND
and
Choir of ALL SAINTS



GEC Avionics (Rochester) Long Service Association

The following new members have been welcomed into the Association recently

T.V. Edwards	ATE	W.C. Guscott	AS&RD
K.T. Newman	MASD	R.E. Unsworth	ISD
J.M. Brightly	AS&RD	B. Blakiston	AS&RD
G.J. Wilkins	ADD	P.A. Gosling	AS&RD
J.R. Calford	GAU	A.R. Bounds	GSD
C.W. Ovenden	ADD	G.E.C. Bell	GSD
R.L. Saville	GSD	F.R. Bell	ATE
B.J. Cox	GSD	R.C. Mayhew	AS&RD
J.H. Harbord	FCD	M.J. Turner	GSD
P.J. Blake	ATE	F.A. Ewen	CQD
K.W. Boardman	CQD	G. Belcher	GAU
R. Bates	GAU	R.P. Bull	ADD
J.W. Lockyer	GAU	W.H. Letley	AS&RD
F.T. Mackley	ISD	R. Pearson	GSD
R. White	ADD	G.P. Hine	AS&RD
D.E. Moore	ATE	W.H. Laverick	FSD
H.A. Lewsey	FCD	B.A. Hanson	ADD
B.P. Apps	CACD	C.G. Hibbin	CACD
J.K. Jones	CACD	C.M.J. Sherhod	ISD
W.F. Delahaye	MASD	E.E. Bassett	FCD

In Memoriam

Just as our last issue came out, recording the 25 year Service presentation for Bill Harbottle of ADD, the sad news came of his death. In Bill's memory, his colleagues and friends collected nearly £90. From this, a Challenge Cup has been donated to the Detling Garden Society of which Bill was a founder member and regular exhibitor. By the wish of his widow Lilian, the cup is to be known as the Onion Cup and will be presented to the member gaining most points in the four Onion classes in Spring and Autumn shows. The Gardening Society have sent their grateful thanks; "The Cup will create interest and friendly competition among members... and will perpetuate the memory of our late friend."

The last issue was also due to record the retirement of "Ollie" Dodson, Mechanical Inspector in ADD for six years. Previously, Ollie had been for many years with Wingets. ADD were shocked to hear of his death immediately after his retirement, very suddenly. The family requested that any collection by friends should be devoted to the Intensive Care Unit at Medway Hospital. Accordingly, after donations of £65 were received, the gift of an Electronic Blood Pressure Measurement Unit was handed over by Production Superintendent John Read, seen here with Sister O'Connor and Staff Nurse Fordree at the ICU.



ADD on the move again. Different wheels!

On Saturday 30th August another ADD Obstacle-Barrow Race took place. This being the third leg of this event, following the Stores, Production and Progress teams.

Production Engineering came under starter's orders at 7.30 am with one simple order—get moved into the Hangers Hive.

The obstacle course consisted of two flights of stairs, one very tired lift, 150 yards of pot-holed road complete with the dreaded Humps of Harrystaff, one rickety plywood ramp, 25

yards of newly wallpapered corridors and numerous floor mounted telephone outlets.

The object seemed to be, how to move 42 desks, 25 filing cabinets (full), 45 assorted racks complete with 8000 drawings and 960 files, numerous potted plants, boxes of "in-case-we-need-it-junk" etc, etc, and remain fit enough to drive home!

The first blows were exchanged at 7.40 am over who was first down with the lift and then a running battle was fought on all the stairways, in corridors and at lift

exits as these became jammed with queues of exhausted entrants, dismantled equipment and abandoned crosswords. The lesson was soon learned—on no account leave your hard won barrow unattended. Points were obviously awarded for hijacking and piracy, also for getting up the road without dropping anything, for off-loading desks where they were at their most inconvenient to the next man and for incurring hernias.

Points were deducted for smashing the telephone

outlets and for ripping the wallpaper. (Thus all participants finished up with minus figures).

Come Monday all was, almost, safely gathered in. The library was, at time of writing, still knee deep in folders and it is reliably reported that underneath that lot is a Copier Repair Mechanic.

So goodbye daylight, farewell fresh air but don't lose sight of your barrows lads, because this may become an annual event.

DADD

CHESS PROBLEM

Problem No. 6
White to play and mate in two moves



Solution to Problem No. 5

Key 1 P8 = S1 Waiting
2 ... b5 random 2 P8 = S1 mate
3 ... c4 1 2 P8 = S1 mate
4 ... f5 random 2 P8 = S1 mate
5 ... g4 1 2 P8 = S1 mate
The promotion key 1P8 = S1 is considered aggressive by promoters because it increases the strength of the White force and takes away a fight from the Black King = 1. Kind is prevented - but it is in keeping with the intensive and amusing rendering of White Knight promotion mates and Black Knight defences. The Knights make all the running!





BUTTONS AND BLEEPS

The new telephone system



Over the weekend of 2nd May the newly installed Telephone System was brought into service. The weekend was chosen in order to minimise the effect of the changeover of communications and being a Bank Holiday provided an extra day should any unforeseen problems arise.

For many years the Company's communication system comprised a ten position PMBX 1A system where the telephone operators connected calls through a jack plug switchboard. On many busy occasions the board had an appearance of spaghetti junction and handled all the incoming and outgoing telephone calls through the BT network.

Internal telephone calls utilised a second telephone through a GEC Reliance PAX system.

The standard of performance and reliability of these two systems left much to be desired and our Management took the decision to replace them with a modern digital switch using a single telephone for both internal and external tele-

phone calls, but the new equipment would include many enhanced facilities.

It was also decided that the site wiring for our communications should be replaced as the existing network had expanded over many years with some of the original cabling dating back to 1938. The re-wiring would therefore cover the whole of the Main Factory including the Towers and the Huts area, the Flying School and the Company Aircraft area.

With over 800,000 square feet of floorspace and 1,250 telephones to install, this appeared to be a formidable task and we were rather surprised when the contractors, GEC Reliance Ltd, agreed to carry out the work over a period of three months, a task that was more usually scheduled for nine to ten months. We are very pleased to say that GEC Reliance met the completion date and on occasions had 25 wiremen working on site.

A suitable location for the installation of the new switch was found, and Works Engineering Services set about preparing the space by joining two small offices

HEALTHY EATING

On November 10th and for that week there will be a nutrition display stand in the main canteen.

At the same time there will be even more than normal "healthy" type foods available for staff to eat with particular dishes highlighted in order that customers may make an informed choice and try out some of the more unusual foods. On Monday and Friday lunch times there will be at least one representative from Medway Health Authority's department of Nutrition & Dietetics available for general advice. On Monday there will be a representative from the Dutch Dairy Bureau.

For those who wish to pursue a healthier way of eating, here are some guidelines:

Fibre

This is necessary to prevent constipation, piles, diverticular disease and helps to control overweight. It is filling and can make a meal very satisfying.

Fibre is found in large concentrations in beans, e.g. baked beans, lentils and red kidney beans, nuts, wholegrain products like wholemeal bread, wholemeal flour, brown rice and spaghetti, breakfast cereals such as Weetabix, Shredded Wheat, All Bran, Farmhouse Bran, etc., there are many to choose from in the shops.

Fruit and vegetables, especially jacket potatoes, contain some fibre and also provide plenty of necessary vitamins and minerals.

Fat

Too much fat in the diet is associated with heart

disease, gallstones, some cancers, and leads to obesity.

To reduce fat intake it is necessary to replace fried food with baked or grilled. Try the low fat alternatives for foods available on the market: margarine and butter can be replaced by low fat spread like Gold or Delight; normal cheese can be replaced by Dutch, Shape or Tendale cheeses; steamed jam roly poly can be replaced by low fat yoghurt or fruit; semi-skimmed or skimmed milk is better for your heart than Jersey milk or coffee whiteners. Cut the fat off meat and dilute meat dishes with pulses e.g. Chilli-con-carne.

Sugar

This is the cause of dental decay and contributes to overweight. It is particularly

harmful when taken between meals.

Try sweeteners in drinks or better still try to get rid of your sweet tooth. "Diet" fizzy drinks are available in abundance in the shops, a good alternative to the normal sugary pop with a better flavour than they had a few years ago. On your birthday, instead of taking round a tray of expensive sticky cakes, take round a tray of expensive fruits. Replacing sweets and chocolates with dried fruit and nuts or Jordan's crunchy bars will also help save your children's misery at the dentist.

Salt

A high salt intake is associated with high blood pressure which in turn can damage your heart and kidneys and may cause a stroke.

Replace salt with pepper at the table. Food can be made tastier with herbs and spices and fresh lemon juice. Remember that dried packet foods and "Just add boiling water" pots and soups are very high in salt. Have an egg sandwich instead.

In Conclusion

Don't become a "food crank"—just moderate your eating habits. Food is to be enjoyed but it may take a little perseverance to get used to the nuttier flavour of brown rice or the 'weakness' of semi-skimmed milk. Taste food before you salt it, but **DO NOT KNOCK IT TILL YOU'VE TRIED IT.**

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Roger Smith
Plant Engineer in charge of installation

together close to the existing Telephone Exchange that would house the new equipment. The main equipment was delivered and installed within the prepared room while the Main Factory wiring progressed. We also decided to carry out some improvements to the Telephone Exchange room in readiness to receive the new operators' consoles.

As can be seen from the before and after photographs, the Telephone Exchange room has undergone a major transformation. Having disposed of the old plug-in system, it was necessary to arrange a suitable layout for a smaller number of operators who would then use the modern keyboard system for connecting all our incoming telephone calls to our extensions throughout the site.

No suitable furniture to achieve the layout that we required was readily available on the market and we therefore decided to do our own design, and all the furniture seen was made on site by our carpenters.

During the period leading up to the changeover it was necessary to re-train our telephone operators and this

was done at GEC Reliance, Wellingborough, with two operators at a time attending a one day course. It was also necessary to give some general training to all our telephone users and it was fortunate that a sufficiently large room became available as a result of refurbishing the ex Fisher area. A programme of training over a period of two weeks was carried out, with over 400 of our personnel attending a 45 minute lecture.

Many of the facilities now offered through the new telephone switch system are in daily use and in particular the call-back-when-free, which indicates that an extension being called has become free, is a very useful time saver. The short code dialling facility is continuously being extended and is also coming into daily use. Other facilities including data transmission over the site have been incorporated within the new system and some divisions are now expressing an interest with a view to future use.

The call logging system has been updated and will continue to be used as an accurate means of charging the divisions for all telephone calls made by their staff. The telephone monitoring system was also replaced as part of the new installation and now incorporates a very good telephone directory. This has been invaluable to our telephone operators in locating personnel very quickly and played an important part as a result of changing extension numbers.

Now that the telephone switch has been in operation for a few months, we are able to say that it has been found very acceptable to all users. It is a great improvement over the old system, both in the quality of performance and ease of use.

Don Freeman

MEET THE EXCHANGE STAFF



Pat Dean Supervisor



Alice Murtagh Senior Telephonist



Marian Godden Operator



Pat Jervis Operator



Mary Knorre Operator



Janet Moore Operator



Kath Trickey Operator



Jill Adams Operator

GEC Avionics Second Year Award Scheme Presentations

The Award Scheme, established last year, seeks to encourage relationships between colleges and industry, by introducing Company Engineers to academic staff. At all the GAV establishments, Divisions 'adopt' a particular University or Polytechnic, and applicants for Awards are selected by their college and the division concerned, from among students coming up to their final degree year. The basis for selection is competitive, using criteria such as academic performance, practical ability, and motivation. The award is a cash prize of £150 and the opportunity of vacation work in the division concerned.

Once selected, award winners are invited in the second stage to submit an

essay, which is judged between contenders from all GAV sites. This year the winner was Wendy Bosley, who undertook her vacation work in PSD. Her prize was a trip to the USA, to work at GAV Inc., Atlanta for four weeks.

At a gathering at Airport Works, the Rochester award winners received their prizes from Director and General Manager Peter Hearne, before an audience of their college representatives, and engineers, managers and supervisors from the divisions involved.

In the picture (l-r) are: **Carl Lewis**, University of Kent, (CACD); **Peter Hargreaves**, Sussex University, (FARL); **Stephen Brown**, Manchester

University, (ADD); **Christopher Sherlock**, Sheffield Polytechnic, (FCD); **Wendy Bosley**, Keele University, (PSD); **Andrew Evans**, Essex University, (MASD); **Ann Lawson**, Leeds University, (CACD); **Simon Willis**, Lancaster University, (PSD); **Catherine Sinnott**, Heriot-Watt University, (MASD); **Kevin Saxton**, Portsmouth Polytechnic, (AS&RD); **Nicholas Anderson**, Brighton Polytechnic, (ISD); **Paul Loukes**, Warwick University, (FCD).

Unable to be present were: **Christopher Dyde**, York University, (FARL); **Anthony Flint**, Bangor University, (FARL); and **Owen Castellino**, Queen Mary College, London, (CACD).



University and Polytechnic Students receive their prizes.

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Sting Ray - lightweight air drop torpedo

GSD ON C FOR £100 M PRODUCE

Contracts sig Sting Ray and ML

Prolonged efforts by the GSD team have no production contracts for the Division in t These contracts mean business for GSD ove £100 million at present

The first contract to be signed was for Contr torpedo. It was followed closely by a contra Package for the Multiple Launch Rocket Sys conventional defence

GSD's Divisional Manager Bob Ruggles said teamwork. The contracts recognise the bread the production base from which to launch th development

The new contract is for more than 2000 strapdown Control Sensors Units. This latest procurement will provide continuity in production of strapdown gyro systems well into the 1990s. The Control Sensors Unit, which is manufactured at Rochester, provides the torpedo guidance and control system with data on attitude, rate of turn, acceleration, depth and magnetic heading. It is designed on the "Strapdown" principle. In this, a set of gyros and accelerometers are rigidly fixed to the vehicle body (strapped down) instead of

being mounted on gimbals, the body axis information being referred to space axes by means of onboard digital computing. This gives a more rugged and reliable design, necessary because Sting Ray experiences high shock on water entry. It also enables the weapon to be made ready for use very quickly. The main Sting Ray contract, (awarded to Marconi Underwater Systems Ltd) is the largest single procurement order ever placed by the Ministry of Defence (Navy). The torpedo development has taken many years of work and intense competition, with price and performance as factors. GEC Avionics Basildon have had

similar success—Electro-optical Advanced Systems Division will be producing the Signal Processing Unit. The success of Sting Ray through its various trials phases has given the MoD sufficient confidence to place this very large production contract with British Industry. The large quantity and continuity of supply will enable GSD to implement a very efficient strapdown systems production programme, providing MoD with an extremely cost effective defence procurement, and GEC with a torpedo able to compete in world markets. Sting Ray is the most advanced anti-submarine

torpedo in the world and is designed to be launched from surface ships, helicopters or fixed wing aircraft. It is a major weapon in the ASW Nimrod MkII armament providing a direct link with another large GSD programme—the Nimrod Central Tactical System. Sting Ray's long range and extremely accurate target detection in deep and shallow water results from a sophisticated automatic homing system with built in resistance to false targets and counter-measures. GSD's Control Sensors Unit is at the very heart of this system providing vital control signals to optimise the attack trajectory adopted by the torpedo. This advanced weapon guidance capability is significant in Sting Ray becoming the main weapon in the defence of Great Britain and NATO against the ever increasing submarine threat. Customers overseas will not be unaware of these factors which makes for a good prospect for continuing production on this programme into the next century.



Below: The Left: Dou system



Production of sub-assembly piece parts for building into the Control Sensors Unit. Left to right are Carolyn Syndercombe, Pat Wray & Ivy Thompson, Semi skilled operators.

Below: Assembly of Control Sensors Units. In the foreground is Doug Fenning, Instrument Technician, subjecting a CSU to final checks prior to test, calibration, and delivery to customer.



The strapdown concept has been adopted for a variety of new applications within GSD, particularly for Spearfish, the next generation heavyweight torpedo, and land navigation systems for fighting vehicles. The strapdown concept was first conceived within the division over twenty years ago leading to one of the first strapdown attitude reference systems in Europe, in 1964. Since that time considerable advances have been made in both systems and component technology, particularly in relation to the microprocessor. This has allowed the original concept to be developed up to the high standard of production engineered systems that are manufactured today.

COURSE FOR MILLION ACTION

Designed for MLRS Systems

...succeeded in winning two major contracts in a space of only two months. The next decade worth more than many years.

Sensors Units for the Sting Ray for the Stabilisation Reference System (MLRS) programmed for the UK and Europe.

This is the result of a lot of good work by GSD's capabilities and give us further new products already in



Multiple Launch Rocket System

The Multiple Launch Rocket System (MLRS) is a medium calibre, highly mobile, rapid fire, free flight rocket system comprising a self-propelled launcher loader vehicle, carrying twelve rockets, which can be fired individually or in ripples of two to twelve. The system is now entering service with the US Army.

The total vehicle system is programmed for development in Europe under the terms of an agreement between the government of USA, UK, West

Germany, France and Italy. A European lead company has been formed from the participating European nations, and has established the basis for collaborative production of the MLRS system. This will provide a second source of supply in Europe.

The key to the accurate performance of MLRS is a high performance Stabilisation Reference Package for which GSD have been selected as the sole source of manufacture in Europe. The gyroscopes will be produced by GSD under licence from Allied Bendix Aerospace in the USA.

The Stabilisation Reference Package is an electricity driven, high performance north-seeking gyro compass, that provides direction, elevation and cant angle to the on-board computer. In conjunction with an odometer, the system also carries out accurate calculation of position. The unit is hard mounted onto the launcher loader.

Bob Shaw has been appointed Programme Executive directly responsible to Bob Ruggles, Divisional Manager. Technical training related to the manufacture of this high value precision equipment has been agreed with Allied Bendix

Aerospace and is planned to commence in the near future. This will give GSD personnel the opportunity of gaining "hands on" experience in the USA as well as the UK. Following this training period and the installation of production tooling and test equipment at Rochester, a production line will be established in 1988 which will then continue for at least 5 years. Further export sales are confidently expected which could considerably enhance GSD's production programme, and extend it up to the year 2000.



MLRS inertial system to be manufactured by GSD.

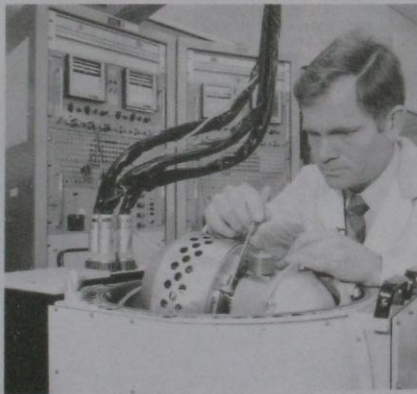
Barrett, Fitter, working on a land navigation system.



Precision assembly of sub-miniature gyros, which form the heart of Strapdown Navigation systems. The hands belong to Ray Brown who works in the Instrument Technician team in GSD's super clean rooms.

The considerable experience and expertise gained within the Division on precision electro-mechanical gyro compass systems, such as the Naval Compass Stabiliser Mk1 (NCS1) and Jaguar IN system,

has enabled GSD to compete very strongly for the MLRS contract. The recent order for NCS1 for Royal Navy frigates, valued at around £5 million, has not only provided the Division with additional work, but has also reinforced the firm base on which to build production of MLRS.



Cliff Young, Tester, making minor adjustments to an NCS 1 Space Reference Unit.

..AND ON COURSE FOR THE FUTURE

Winning these major production contracts provides a continuing sound basis for GSD to carry on the development of new systems for the future. Development work has been completed on the Digital Colour Map Unit and Land Navigation System and sales have already been made.

GSD is now marketing a new integrated Total Terrain Avionics (T²A) System. This is a new overall system based on stored digital terrain data which provides a central data base for aircraft mission system avionics.

The new START gyroscope has been tested in shells and other projectiles to very high shock levels (25000g).

Evaluation trials by potential Customers of all of these new products have been carried out in the UK, US and other countries.

**23rd
GEC Avionics
Sports Day**
BP Clubhouse Hoo
17 Aug 86

Sports Day 1986

With Deansgate track out of use, all events this year took place on the sports field at GAv/BP Club at Hoo. Conditions were excellent, not hot but dry. A most enjoyable day was rounded off by the Prizegiving in the Club House by Mrs. E Alexander.

Photos by Ian Douglas.



Start of the Men's 1500m



1500; Jon Roots, GSD, sets the pace from Adam Bridge, MASD



Serving a bun?
Venira Chapman, Personnel, once again dominated the womens throws. She was second line here in the shot, first in the discus, fourth in javelin



Mark Butler, (1) winner of 100, 200, 400m, Victor Ludorum for second year in a row, with Phil Bond, a Youth High Jumper



Tami Harris, CMS, 100m winner in 12.7s. In June, Tami won a Bronze Medal in the National Junior Women's Long Jump Championship



Stefan Azzopardi, GAv, 3rd in Long Jump and 200m, 2nd 400m. Stefan is also Kent Youth 400m Hurdles champion



Tim Hayes, ISD, Winner of 1500m Walk



Tug-of-War heat



Gary Gallagher, ADD, winner of Long Jump. Sand not soft enough?

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Mick Giles, ATED



Jenny Hawker, Personnel, in High Jump. Looks easier than serving meals.



Sue Brissenden, MASD Vacation Student, High Jump



The CMS Interdivisional Womens Relay Team

THE RESULTS

Men

100 metres sec

1 M. Butler (FCD)	11.5
2 D. Cooper (GAV)	11.6
3 D. Bosley (FARL)	11.9
4 I. Gower (ISD)	12.0
5 D. Dickson (FARL)	12.1
6 M. Walden (MASD)	12.2

200 metres sec

1 M. Butler (FCD)	23.4
2 D. Cooper (GAV)	23.4
3 S. Azzopardi (GAV)	23.8
4 G. Saker (MASD)	24.0
5 C. Wright (ATED)	24.7
6 S. Cheetham (FARL)	24.9

400 metres sec

1 M. Butler (FCD)	50.8*
2 S. Azzopardi (GAV)	51.9
3 N. Fiddeman (FARL)	52.9
4 I. Langley (FCD)	54.4
5 M. Giles (ATED)	54.5
6 L. Langley (FCD)	73.1

* Sixth consecutive title

800 metres min/sec

1 G. Saker (MASD)	2:05.8
2 I. Langley (FCD)	2:06.9
3 L. Wright (ATED)	2:07.1
4 J. Roots (GSD)	2:07.9
5 A. Bridge (MASD)	2:13.1
6 N. Sheridan (FCD)	2:13.9
7 N. Mason (ADD)	2:15.4
8 E. Broad (ATED)	2:18.8
9 S.R. Cheetham (FARL)	2:22.5
10 J. Evans (ATED)	2:32.1
11 D. Clark (FARL)	2:56.4

1500 metres min/sec

1 G. Saker (MASD)	4:08.3
2 A. Bridge (MASD)	4:12.0
3 J. Roots (GSD)	4:14.0
4 I. Langley (FCD)	4:22.3
5 M. Sheridan (FCD)	4:23.6
6 S. Cheetham (FARL)	4:34.7
7 F. Williams (FARL)	4:43.9
8 S.R. Cheetham (FARL)	4:59.7
9 L. Langley (FCD)	5:08.2
10 D. Hicks (FARL)	5:11.0
11 A. Read (MASD)	5:14.0
12 D. Jenkins (MASD)	5:15.5
13 J. Jones (CACD)	5:15.5
14 B. Nock (MASD)	5:21.0
15 D. Dewington (MASD)	5:25.7
16 D. Thornycroft (FARL)	5:38.0
17 R. Brown (FCD)	5:49.7

4 x 100 metres Relay

1 FARL	48.8
2 MASD	48.9
3 PERSONNEL	48.9
4 FCD	49.5
5 ATED	50.7
6 ISD	52.8

1500 metre Walk

1 T. Hayes (ISD)	7:29.0
2 E. Broad (ATED)	9:30.0
3 S. Reeves (GAV)	9:37.7
4 M. Jury (ISD)	8:54.8
5 S. Cheetham (FARL)	9:20.0
6 A. Bridge (MASD)	9:33.6
7 T. Morris (ISD)	9:34.6
8 P. Carrington (MASD)	9:47.3
9 G. Cheetham (FARL)	10:04.2
10 P. Barnicott (MASD)	10:31.7
11 D. Reeves (ADD)	10:33.4
12 P. Chapman (ADD)	11:25.4

High Jump

1 P. Chapman (ADD)	1.93
2 P. Bond (ATED)	1.85
3 M. Walden (MASD)	1.60
4 M. Brogan (FARL)	1.55
5 P. Barnicott (MASD)	1.55
6 J. Watts (ADD)	1.55

Long Jump

1 G. Gallagher (ADD)	5.88
2 D. Bosley (FARL)	5.31
3 S. Azzopardi (GAV)	5.30
4 D. Cooper (GAV)	5.13
5 M. Sheridan (FCD)	4.98
6 D. Jenkins (MASD)	4.96

Shot

1 G. Storer (MASD)	11.76
2 M. Chapman (ADD)	10.04
3 M. Walden (MASD)	10.02
4 G. Gallagher (ADD)	9.59
5 P. Bond (ATED)	9.51
6 M. Giles (ATED)	9.38

Discus

1 G. Storer (MASD)	37.80
2 M. Giles (ATED)	31.60
3 M. Walden (MASD)	30.58
4 M. Chapman (ADD)	30.42
5 S. Small (FARL)	23.30
6 P. Barnicott (MASD)	22.90

Javelin

1 M. Chapman (ADD)	47.54
2 G. Storer (MASD)	46.66
3 M. Brogan (FARL)	38.38
4 P. Lamb (FARL)	36.28
5 M. Walden (MASD)	34.98
6 S. Small (FARL)	33.14

Tug of War

1 MASD	
2 FCD	
3 FARL	
4 ISD	
5 ATED	

Women

100 metres sec

1 T. Harris (CMS)	12.7
2 N. Bartlett (GAV)	14.2
3 R. Mattocks (MASD)	14.3
4 S. Brissenden (MASD)	14.5
5 K. Paine (GAV)	14.6
6 J. Darragon (FARL)	15.8

800 metres min/sec

1 R. Mattocks (MASD)	2:38.3
2 K. Truiston (MASD)	2:39.6
3 J. Darragon (FARL)	3:31.7
4 M. Cheetham (FARL)	4:09.9

4 x 100 metres Relay

1 CMS	54.7
2 Personnel	60.3
FCD	did not finish

High Jump

1 C. Cope (PERS)	1.48
2 S. Brissenden (MASD)	1.25
3 J. Marshall (PERS)	1.15
4 J. Hawker (PERS)	1.15
5 R. Mattocks (MASD)	1.15
6 V. Chapman (PERS)	1.10

Long Jump

1 T. Harris (CMS)	4.74
2 J. Stapleton (CMS)	4.30
3 S. Brissenden (MASD)	4.23
4 C. Cope (GAV)	3.96
5 R. Mattocks (MASD)	3.94
6 V. Sells (ADD)	3.82

Shot

1 S. Brissenden (MASD)	8.37
2 V. Chapman (PERS)	7.88
3 L. Norman (CMS)	6.95
4 P. Brissenden (PERS)	6.94
5 N. King (CMS)	6.50
6 N. Bartlett (PERS)	6.41

Discus

1 V. Chapman (PERS)	21.28
2 S. Brissenden (MASD)	20.44
3 L. Norman (CMS)	19.32
4 S. Marshall (PERS)	17.92
5 N. King (CMS)	17.50
6 R. Brissenden (PERS)	16.64

Javelin

1 S. Brissenden (MASD)	18.62
2 L. Norman (MASD)	16.74
3 P. Brissenden (PERS)	16.36
4 V. Chapman (PERS)	15.38
5 R. Mattocks (MASD)	13.62

Boys

100 metres (10-12 years) metres

1 N. Evans (Guest)	15.7
2 D. Evans (Guest)	15.8
3 I. Kernlo (GSD)	17.0

400 metres (13-14 years)

1 G. Nash	61.4
2 S. Jury	65.9

800 metres

1 N. Mason	2:41.9
2 G. Nash	2:59.6
3 S. Jury	3:02.4

Girls

100 metres (10-12 years) sec

1 R. Spinks (ISD)	15.1
2 V. Hickmott (Guest)	15.3
3 S. Nash (ISD)	15.5
4 J. Bezzant (ISD)	16.6
5 S. Duxbury (PSD)	18.2

100 metres (13-14 years)

1 K. Truiston (CMS)	14.0
2 V. Sells (ADD)	14.0
3 N. King (CMS)	15.6

100 metres (15-16 years)

1 J. Stapleton (CMS)	13.4
2 S. Brissenden (MASD)	14.8

Veterans Handicaps

Men 100 metres Race 1 sec

1 D. Joyce (CACD)	11.5
2 G. Cheetham (FARL)	11.8
6 ADD	31
7 ATED	27
8 ISD	15
9 CACD	10
10 GSD	9

Race 2

1 E. Broad (ATED)	13.8
2 D. Reeves (PERS)	13.9
3 J. Pickford (FARL)	14.1
4 D. Betts (MASD)	14.2
5 J. Jones (CMS)	14.6
6 D. Dewington (MASD)	15.2
7 P. Carrington (MASD)	15.5

Women 100 metres

1 J. Hawker (GAV)	17.5
2 M. Cheetham (FARL)	18.5
3 B. Collinson (FARL)	19.2

Victor Ludorum Trophy

Men pts

1 M. Butler (FCD)	18
2 G. Storer (MASD)	17
3= G. Saker (MASD)	15
3= M. Walden (MASD)	15
5 M. Chapman (ADD)	14
6= D. Cooper (PERS)	13
6= S. Azzopardi (PERS)	13

Women

1 S. Brissenden (MASD)	29
2 R. Mattocks (MASD)	16
3 V. Chapman (GAV)	15
4 T. Harris (CMS)	12
5= C. Cope (PERS)	9
5= J. Hawker (PERS)	9
9= L. Norman (PERS)	9

Management Trophy

pts

1 MASD	124
2 GAV (W.E.S. Personnel, Canteen, Accounts)	104
3 FARL	67
4 FCD	40
5 CMS	39
6 ADD	31
7 ATED	27
8 ISD	15
9 CACD	10
10 GSD	9

THE PRIZEGIVING



The CMS Interdivisional Womens Relay Team



Gary Gallagher, ADD, Long Jump



Graeme Saker, MASD, 1500m. Jim Collins on the left, in charge of arrangements and trophies



Thanks to Mrs. Alexander by Steven Fury. Steve, one of the Club's top middle distance runners, is leaving to go to college in the USA

Offa's Dyke Hike

In aid of the Guide Dogs for the Blind Association.

Martin Weller tells of Hurricane Charley's interference.

We arrived in Prestatyn at 1 o'clock Saturday morning on the bank holiday weekend, some five hours behind schedule, due largely to the bad weather and heavy traffic on the M1. As we stood outside and looked towards the south, I saw a car coming down apparently from out of the sky. Unfortunately it wasn't the sky, it was the first of the mountains that we would have to negotiate on our trek to the south.

Undeterred, we set off at 7.00 am having had a rest-

less night trying to sleep in the car. We headed for the mountain and as we approached it, the scale of our task suddenly struck us. This particular climb was described in the guide book as being "an easy ascent into wild Wales". We couldn't help but wonder at the author's choice of words.

Having reached the top, after a half hour climb, we were treated to a marvellous view of the north coast of Wales and could even see Liverpool to the north east and Snowdonia to the west. We pressed on, gradually descending for a mile or so to the foot of a hill. This hill wasn't classed as a moun-

tain but still it was higher than anything in Kent. So it went on, up and down until we reached Bodfari for lunch. Ahead of us lay the most awesome sight so far, and so it proved to be.

Wearily we pushed our aching limbs up the side of the first of the Clwyd range of mountains. Hour after hour we moved on, regretting the two pints of cider we had with our lunch. Having reached the summit we saw an equally difficult climb ahead. We decided to make camp some nine miles short of our target, having completed sixteen miles.

Early the following morning we broke camp and

headed down the mountain. Low on water and out of food, we headed for Llandegla to restock. This detour took us about two miles away from the path. Four mountains later we arrived at about midday.

After another ploughmans, a couple of pints, and a visit to the general store we were on our way. Having re-found the path, we had an easy afternoon, following the mountains on a gradual descent to the spectacular Horse Shoe Pass and on into Liangollen. Having set up camp and eaten, we set about exploring the town. It was during that evening that Wales caught the tail end of

Hurricane Charley. Gradually, during the night, the winds picked up and the rain came down. By the morning, any attempt at leaving the tent was all but suicide. The tent weathered the storm until about 3.00 pm when the first droplets of water seeped through. Using every means available to us we managed to keep the bulk of our gear dry until the pubs opened.

Returning from a warm dry pub, we crawled into the cold wet tent and set about fighting back the floods and struggled all night re-pegging guy ropes to keep the tent up.

Morning came and it was still raining heavily, the fore-

Sponsorship
The Apprentices' Disco on 13th September raised £76. Martin has not been able at the time of writing to collect all his sponsor's contributions, and asks through these pages for all those who have offered donations to get them to him—as generously as they feel able in the circumstances—as soon as possible if not already done.
Ed.

cast was for more of the same. Cold, wet and tired, we had to admit defeat and head for home.

We had completed 40 miles of our intended 175 mile hike. We would like to thank all our sponsors and leave it up to them whether they wish to donate. If you can, please do, it would be a shame for the charity to miss out because of Hurricane Charley.

Martin Weller
Simon Forrester

Retirements



Charles Rex, who has been involved with Training matters in conjunction with GAV at all sites as well as the "Marconi" companies for many years, has retired from his post as Company Chief Training Officer based at Chelmsford, The Marconi Company's HQ. At a recent GAV Personnel Managers' meeting, Charles was surprised and delighted to receive gifts to help him with his DIY activities, from Director of Personnel John Bradley, John Amley, Personnel Manager and Sara Mawby Personnel Manager GEC Computers, are also seen here. (A)



Vera D'Oyly retired on 22nd August after 10 years service with the Company. Vera joined Works Engineering Services as a cleaner and has been helping to keep Tower 2 clean and tidy ever since. Vera received her presentation of a sun lounger and gardening equipment from Mick Sayer, Senior Plant Engineer WES. (B)



'Charlie' Mitchell, Leading Hand in ISD's Process Room, has retired after 29 years with the company. When he started, Charlie earned £4.45 a week (44 hrs) as a dial and cylinder assembler on weighing machines, and when he moved to AEID in 1962 he was doing a similar job on indicator instruments. In that year he trained as Wireman, in 1967 was promoted to Chargehand and in 1975 to Leading Head. Production Manager Fred Wickham wished Charlie a happy retirement on behalf of all his friends and colleagues. (B)



"Ted" Worman, our longest service Guard (since 1963) retired on his birthday recently, after duties under the last four Security Supervisors. Ted's career was varied before he joined this company—he had been paper maker at Reeds, oxacetylene cutter, and prison officer. His ancient push-bike allegedly gave the idea for Security's patrol car.

After his long service without a single day of sick leave, Ted will now enjoy more time for his hobbies of painting and decorating.

Security Manager Harry Staff handed over gifts and best wishes from Ted's colleagues. (B)



Betty Tame started her working life as an assistant in a family grocers shop, until the war came, when she changed the butter pats for a set of spanners. She became a fitter's mate at Shorts, working on bomb doors for the Stirling bombers. At the end of the war, once again Betty went back to the grocery trade until her marriage and the birth of her daughter when she was a housewife for 11 years until her daughter Annette was in her senior school years. Betty felt it was time to return to work so back to the grocery trade once again, she worked in one of the local shops until 7 years ago when she joined us as a cleaner.

On her retirement Betty hopes to see more of her Grandchildren and take it easy. Production Manager (CACD) Stan Wells passed on her colleagues' best wishes for a happy retirement. (B)

Three retirements from CMS

Recently departed from CMS after around 30 years of service each, are (l-r) **"Bunny" Austin**, Production Controller, **Alfie Blake**, Bench Fitter, and **Charlie Booker**, Quality Control Operator. Best of luck to them all!



25 years' service



Bill Alexander led the tributes from many friends and colleagues who came for **Ken Boardman's** 25 year service presentation. He reminded everyone that Ken had come into the company at the time of the Rank Cintel takeover, Ken came to Rochester as one of the 'refugees' from Sydenham when the business was absorbed as what is now ADD. He was then a Reliability Engineer, and in 1966 joined COD, at the time part of FARL, and in 1968 became COD's own Manager. It was remarked that this was, and is, very much a 'sell the company' and 'policeman' sort of job, for which Mr. Alexander as Director responsible for QA, very much appreciated Ken's contribution. (B)

David Moore, Chief Buyer in ATED, joined Elliott Brothers as Chief Buyer in 1961 having completed National Service in the RAF followed by a period with HM Dockyard in the Naval Stores Department.

David has spent his entire Elliott service in procurement of Supplies, starting as an assistant Buyer in Naval Weapons Division. He joined ATED in 1963 as a Buyer on the Draken contract. Promoted to Chief Buyer in 1971 he has been involved in all contracts from SSE to the new generation Orions.

David, as befits his Welsh upbringing, has a passion for the choral music of that country – but not as a singer. (B)

Janet Harbord, Telex Operator in FCD, was in the old MACD as a secretary with ten years working for the Divisional Manager. In 1977, when the division had become the earlier FCD, she moved to the Administration Office, and since 1980 has been with several generations of telex machine in different locations. Janet has thus seen the joining, splitting, renaming, and relocation of 'her' division several times. (A)



John Gwynne's lifestyle, working nights as Quality Technician in AS&RD, suits very well with his interests in water sports – he can devote plenty of time to his wind-surfing and sub-aqua, and particularly water skiing. John was once a Dockyard apprentice, and radar technician during his RAF National Service, and when he joined his wife in working for this company he went to MACD – she was then in the fuel flow laboratory. After a later move to FID John went to AS&RD on repair contract work, and has been there since. Three sons are also working with us – Michael, David and Stephen – two in Software and one as Technician Apprentice.

Production Manager Ted Farbrace handed over John's presentation cutlery. (A)



Terry Edwards of ATED settled in that division after about a year each in MACD and IND. Terry, now a Senior Systems Engineer, has been involved with many projects using his expertise of converting advanced mathematics into product technology. His outside interests also include real time computing applications such as computer stored imagery and graphics plotting. A family man with 2 daughters at college, Terry received his barometer from Arthur Colwell. (B)



Later than planned owing to his wife's illness **John Jamieson** was presented with a canteen of cutlery by Mick Meakin, PSD's Production Manager.

'JJ' started in MACD wiring in 1960, and after short spells in other areas transferred to TACD in 1963, FCD in 1970 and IND in 1971 were the next steps, throughout the time working on many projects in test and engineering areas. He has been in PSD since 1980.

Outside work, JJ has interests in DIY, walking and reading, as well as something rather larger than card modules – pipe organs. (A)

Peter Leadbetter was presented with a pair of binoculars by David Hussey on 19 June. Peter started with the company in 1961 as a lathe operator with Fisher Control Valves. He then became a wireman with Radio & Radar Div then FID and is currently with GSD.

The binoculars will be put to good use with all of Peter's outdoor activities. (A)



John Catford, Consultant Engineer GAV, was one of the many who started their company service at Borehamwood, recalled Ron Howard. It was 1962 when John came to Rochester to MACD; later he was in FARL, then became Chief Engineer of Gyro Division, in 1969. After another spell in FARL, John was appointed Chief Engineer PSD in 1980.

In 1984 John joined the Future Systems team and has built up a particular interest in the company's work on underwater remotely operated vehicles. John's outside interests include badminton; he is a past Chairman of that Section of the Sports & Social Club.

Ron Howard, Director and General Manager, made John Catford's presentation. (A)



Henry Stedman, Publications Manager of AS&RD, on presenting **Joy Brightly** with a carriage clock said "Joy joined the company working as an assembler in IND. Some 18 months later Joy transferred to AS&RD's Tech. Pubs. Dept. as a tracer but soon became a first class illustrator." Henry thanked her for her long and devoted service and said that he hoped the association would continue for a long time to come. (B)

Geoff Wilkins, Project Leader, was one of the Cintel 'refugees' who came to Rochester in 1967 following Elliotts acquisition of that company in 1964. Prior to that he had been on National Service with the Royal Corps of Signals and for five years with Muir-heads. Geoff has worked on many of the biggest ADD projects, which were recalled by Divisional Manager Robin Sleight when he congratulated Geoff and thanked him for his long service. (B)



Charles Ovenden Consultant Engineer in ADD, was originally in the then Environmental Labs at GEC Stanmore, and moved to Medway at the time of his marriage, joining Spemblays who were in the building now occupied by FARL. Charles's service with us at Rochester started as TA in ATED; by the time he achieved professional engineer status he had moved to ADD, originally at Sydenham, but he found things much easier when they moved here nearer his home. Charles is now much involved with ADD's promotion of new technology in both software tools and hardware. He particularly wished to say a special thank you to his friends and comrades for making his working environment so pleasant. (B)



Congratulations

Weddings

Caroline Billing (daughter of Anne, Secretary to Management) was married on 26th July at St Peter's, Bredhurst, to **Tony Porter**, Planning Engineer in CMS. Caroline is a Project Admin Clerk in CACD, and Engineering Manager Geoff Richmond did the honours on behalf of all friends and colleagues. (A)



Debbie Harridge, Word Processor Operator in CACD Tech Pubs, married **Andrew Kemp** of City Way, at St. Margarets Rochester on 19th July. Debbie originally joined us under the Youth Opportunities Programme. A much-decorated lady received her presents and card from Divisional Manager Keith Snelling.

Nicky Dodd, Canteen Assistant, was presented with gifts by Peter Simmons, Company Press Officer, prior to her wedding which was noted last issue. (A)



Andy Silveston, ex apprentice and now Production Engineer in GSD, and Helen Payne, who lives near him on Sheppey, were married on 26th July in Minster Abbey. Here he is receiving gifts including household items and gardening tools from Production Manager Dave Harries. (A)



On 12th July **Wendy Ellis** married **Dale Liddle** at St. Justus Church, Rochester. Wendy is a Clerk Typist working in the Estimating Department of CACD. The family also includes Mum, Phyllis, in CMS and Uncle Arthur in Personnel Dept. Dale is formerly of the Royal Navy. Trevor Heyworth, Chief Production Engineer, made the presentation. (A)

Birth



Linda and Tony Lyons with **George Wooding** when Linda left as noted in last issue. They were blessed on 25th September with the arrival of a son. (B)

Sports and Social Club round up

Rifle & Pistol Club Outdoor Range Opening Ceremony

On Saturday 2nd August Bill Alexander, accompanied by Mrs. Alexander, fired the first shots to officially open the outdoor range for the Rifle and Pistol Club.

The weather was not ideal, dry but very windy. The wind showed its strength when several of the rifle targets complete with frames went for a short flight, this must be something to do with the range being situated on the airfield, or perhaps bad design. Back to the drawing board.

Bob Passby our Club President welcomed Mr. and Mrs. Alexander and thanked them for sparing the time to officiate at the Opening Ceremony.

Mr. Alexander replied by praising the efforts of the club and thanked them for tidying up another section of the airfield which comes under his control.

Harry Vandertak, Club Secretary (FARL), then escorted Mr. Alexander to the pistol firing point where he fired 10 shots at a 25M Precision Pistol Target. For someone who had only received 1 hour's coaching at pistol shooting, having been a rifle shooter earlier in his life, he achieved a very good score.

A small trophy and a bouquet of flowers were presented to the two honoured guests and the occasion rounded off with some refreshments. Luckily the rain held off and an enjoyable morning, marking a very important event for the Rifle and Pistol club, ended. The club would like to thank all the guests who attended the opening and were especially pleased to welcome Jack Ruler and members from the Social Club Committee.

At this point we would like to thank the Company, the Social

Club, Works Engineering and all the other people who have been involved in helping this project, through from an 'Impossible Task' to 'Officially Opened'.

A special thank you must also go to the relatives of the late Harry Baker (ISD). They donated all of his shooting equipment to the club. This was sold to members and the money raised was invested. This money together with a grant from the Social Club and a levy imposed on all club members has financed the construction of the range.

The project was started back in 1980 when Jack Ruler (FCD) drew up the plans and obtained the necessary permission from the "authorities" Company, Police, Council and Army. This was quite a task by itself. Work has slowly progressed since then and numerous problems have been overcome. Now that it is open they are only talking points, but to see a crowd of Office Boys with a compressor and road drill trying to break up a 30' x 6' x 2' and move it... Or to see 60 tons of sharp sand beside a wheelbarrow and know it all has to be moved in it! Still it is done now and we hope the faithful few who have given up so many of those precious Sunday mornings and afternoons are pleased with the results. Thanks

a bundle. We also hope the club's outdoor shooting records will benefit from the use of the facility.

The club's indoor range, in the SE corner of the Airfield, was converted by the club members in 1974. It used to be a toilet block for ferry pilots and was later used as a Link trainer building by the Company. It now offers 4 firing points for .22 Rifle at 25 yards, 3 for .22 Pistol at 20 yards and 3 for .177 air weapons 10M.

The outdoor range, at the rear of Rochester Airport Hangar, has 8 firing points for .22 Rifle at 50M and 8 firing points for .22 up to .45 Pistols at 25M.

Last year at Bisley, the 'Mecca of Shooting' we came away with two prizewinners, Dave Clack won the Optrex Trophy and several other prizes at Pistol and Jim Keeling won the Weetabix Cup at Rifle. Congratulations to you both. This year at Bisley the trophies did not come our way, but several members beat their own personal best scores for the aggregate of the meeting.

Last year we boasted a rifle and pistol member training with the National Squads. This can lead to shooting at International Level. Congratulations John Mannering and Peter Keeling.

In both local and national competitions the club can regu-

larly be seen among the prizewinners and is rated as one of the strongest teams in Kent. Among other activities we open the club to some of the Division's 'Superstars'. ADD and CMS hold their annual 'Superstars' events and have shooting as one of the items. They all seem to enjoy the occasion especially the training and it's amazing how competitive they are. We won't mention the side bets but bring your wallet or a better pair of glasses next time Alan (ADD).

Another event held annually is the GEC Young Employees

Competition. Each year we have coached them in shooting, each year they do better in the competition, gaining maximum points in shooting last year and this year, well they have just got to win the competition outright. Good luck to the team and the officials. (Written before the event—Ed.)

Should any Social Club member wish to find out more about the club please contact Harry Vandertak, New Road Ext 32 or John Keeling AS&R Ext 3975.



After the opening Bob Passby, Mrs. Alexander and Bill Alexander (A)

Competition Swimming at GAv/BP Club... The GAv/BP Comets



Wearing 'BP Green' colours and with a "COMET" fish as Club logo (see above) the Swimming Section "Squad" represent GAV in inter-club Galas and in the "MEDWAYS", the major area Age Group Swimming Competitions held at the Black Lion Pool. Although a relatively small club by local standards, GAV have done extremely well in Galas against the main local clubs such as Rochester, Black Lion, Gravesend and Northfleet, and Maidstone. Some of our individual swimmers have achieved Gold times and we have also won a Gold medal in this years' "MEDWAYS" Age Group Championships.

Our Boys in particular are very good. However we urgently need more Girls from age 10 to 16 years to complete a full "Squad". Training sessions compare very favourably with local clubs and are generally earlier in the evening than is possible at Public Pools (which helps considerably when it comes to getting up for school next morning). The GAV/BP Clubhouse provides probably the best train-

ing environment in the area with two mid week training sessions from 7.30 to 8.45 pm and two weekend sessions available on Saturday and Sunday lunchtimes from 1.15 to 2.30 pm. Coaching standards are high too. This year our Swimmers have been coached by Bill Ludgrove who has coached Commonwealth and Olympic Medalists.

In addition to the sporting activities the GAV/BP Clubhouse provides excellent social facilities which the Swimming Section makes full use of with Wine and Cheese evenings and Bar-B-Qs for parents and Discos for the teenagers. So young GAV swimmers or non swimmers, especially Girls, the GAV/BP Comets would like to hear from you. The Swimming Section will provide swimming teaching and coaching as necessary and you will benefit from the regular exercise.

Anyone interested please contact:

Cyrl Moffett on GAV extension 3926 or home Medway 48707, or Dave Jibb on GAV extension 3907 or home Medway 814473.

Adult Awards S.T.A. Adult Achievement Award

Bronze Standard Phyllis Stevens Henry Redgewell Adarash Sandhu	Silver Standard Shirley Atkinson	Gold Standard Shirley Atkinson Alan Strike
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S.T.A. Distance Badges

Name	Distance (Metres)
Lisa Strike	1,000
Mandy Atkinson	1,000
Shirley Atkinson	600
Alan Strike	600
Derek Harvey	100
Adarash Sandhu	100
Geoff Richter	25
Valerie Whitmore	25
Barry Whitmore	25
Faheem Anwar	10
Ivy Redgewell	10
Joan Costello	10
Pat Strike	10
Mick Goodrum	10

A.S.A. Fish Badges

Name	Age	Distance (Metres)
Paul Pearce	10	1,500
Rebecca Harvey	9	400
Zoe Terry	11	200
Lisa Golding-Simpson	8	100
Ian Snelling	8	100
Tanya Nash	7	25
Christopher Philips	7	10

A.S.A. Swimming Challenge Award

Gold Standard Name	Age
Mandy Atkinson	13
Lisa Strike	14
Paul Pierce	11

S.T.A. Teddy Bear Award

Name	Age
Alexandra Steward	5

Babies in the swim

Successful start to the Mother & Baby Classes, Teacher: Dennise Dutton. Contact Cyril Moffett, Works Medway 44400 Ext 3926, Home Medway 48707



COMUS

GEC Avionics/BP Kent Social Club Computer Users' Section

COMUS is a section of the GEC Avionics/BP Kent Social Club, and it takes members mainly from GEC Avionics at Rochester, Chatham and Gillingham, but also from BP, Fisher, GEC Software and Nailsea.

The main objectives of COMUS are:

- To further members' appreciation of computers and their application
- To encourage hardware and software projects
- To provide computer hardware and software at discounted prices if possible.

Meetings are held approximately once a month at Hoo Club House, where you can attend lectures, discuss problems and use club equipment. There is a cheap bar and hot snacks are usually available. Details of COMUS meetings are sent to members and posted on noticeboards.

At Hoo, COMUS has its own club room for members' use, with BBC and Spectrum computers, monitors, disc drives and a printer. More equipment will be provided as funds become available. Keys to the club room have to be signed out by an authorised person. If an individual group wishes to have access, they may apply to the Committee to be added to the authorized list.

Newsletters are distributed to members approximately once a month, and information also appears in the 'GAV News' from time to time.

Any member of the GAV/BP Social Club or their immediate families may join. Membership is £2 a year, running from 1st November to 31st October. You will receive a membership card, which entitles you to discounts at certain computer shops.

The AGM will be held on Monday 3rd November 1986. All the committee posts are due for re-election, so if anyone is interested in helping out, please contact one of the officers for further information.

Trevor Hall (Chairman) New Rd ext 35
Liz Doe (Secretary) New Rd ext 37
Harry Iles (Treasurer) Ext 3913

COMUS Membership Application Form

Surname

First Name

Division

Dept

Tel. Int. Ext.

GAV/BP Social Club membership no.

Type of computer owned/used (if any)

Tick peripherals owned:
Printer () Discs () Modem ()

Other

Interests/comments:

Please send your completed form, with a cheque for £2 made payable to 'COMUS', to: Liz Doe, FARL, New Rd.

If you are not using GEC Avionics internal mail, please add the full address:
GEC Avionics Ltd, Airport Works, Rochester, Kent, ME1 2XX
Membership expires 31st October 1987.

REAPER CLUB

The Summer activities were a mixture of enjoyment. After the atrocious weather for the Brighton Trip, we were rewarded by a glorious day for the cruise along the Thames – from Westminster Pier to Hampton Court – which, in spite of a few hiccups, was a delightful experience. In August, by the generosity of the company, we held a happy and successful trip to Clacton-on-Sea. The weather for this event proved satisfactory, as opposed to the few days previous, when it had been anything but. The packed lunches, provided by the Canteen Staff, helped to make it a very enjoyable event.

The entertainments have been of a very high order, and have been appreciated, including, in June, our Works' Show Band – in their own delightful and efficient manner. In July, we had the first visit from the Newington Concert Party, which had taken over from the Sheppey Singers, whose efforts were full of gaiety, class and humour of a high order, which combined

to make an evenings' delight. For the August offering the skill and lissomness of the Young Ladies were a pleasure to behold, and were enhanced by the costumes of the performers (no doubt the admirable efforts of loving mothers). As has become our custom, the September meeting was the Cake Competition, for which there were many entries to the various classes. All competitors were congratulated on the quality by the Judge, and particularly in the Fancy Cake Class, the ingenuity, artistry and production not only added colour, but portrayed skill and delicious presentation.

We are now looking forward to the second visit this year of the Works Concert Brass Band in November and in October, we are holding a "Tramp Supper". A good number have indicated that they will be "in costume" – this should add to the jollity of the evening.



Club-House attractions

OCTOBER

FCD HALLOWEEN DISCO "CONNEXION"
7.30 – 11.45
Friday 31st October
Fancy Dress optional
Tickets £1 at door

NOVEMBER

Saturday 1st November
BARN DANCE
with
"JEZREELS"
7.45 – 11.45

Friday 7th November
Entertainment in the Bar
"Episode 2"
8.30 – 11.00

Dance with
"SOUNDS VERSATILE"
7.45 – 11.45
Saturday 8th November

Friday 14th November
BOWLS PRESENTATIONS
and
DINNER DANCE

OLD TIME MUSIC HALL
8 – 11
Saturday 15th November

Friday 21st November
Rugby Section Disco "CONNEXION"
8 till late

BP Dance
Saturday 22nd November
"PEBBLE MILL"
Friday 28th November
CMS DISCO "X-OCET"

PARLOUR DERBY
Saturday 29th November
8 p.m.

GEC Avionics AC CROSS COUNTRY EVENT
1.30 – 4.30
Saturday 29th November

DECEMBER

Friday 5th December
GEC Avionics AC ANNUAL DINNER DANCE
See Page 4 for full details.

Saturday 6th December
Family Fun Night
with
KEITH HOWARD Games for the Kids – and Adults

Wednesday 10th December
BP Kent Society Christmas Dinner

GAv/BP KENT CLUB

ELECTION 1987

Nomination for Ordinary Member of the MANAGEMENT COMMITTEE
(four vacant seats for GAv employees)

Candidate's Name (please print)

Division

Club No:

Signature

Date:

Proposer's Signature

Club No:

Seconder's Signature

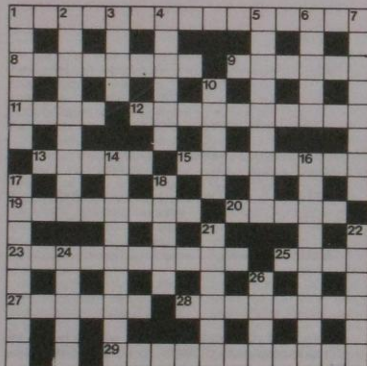
Club No:

This Nomination Paper is issued subject to Clause 5(a)(iv) of the Constitution and Rule 3
Nomination Papers must reach the Club Secretary by 31st December 1986

YOUNG ENTERPRISE URGENT

Young Enterprise urgently needs advisors who can work with young people on a voluntary basis for two hours each week, Monday, Tuesday or Wednesday. The volunteers will advise companies formed of young people upon the Commercial and Technical aspects of company development and operations. This opportunity will suit junior management or supervisory staff. Ability to work with young people 15-19 years of age is essential. The Y.E. Centre is located in Upbury Manor School, Gillingham and operates between 7-9 p.m., Monday to Wednesday.

Anyone interested, please contact
Don Short, Medway 44433 (New Road) Ext 52
or **Mick Porter, Main Works Ext 3271.**



Crossword No. 80

For amusement only

ACROSS

- The lady's state is faint hearted. (7-8)
- Naomi would have been if she had returned. (8)
- What is done in playhouse. (6)
- The Ref. sees it and blows his whistle. (4)
- The gnashers that get forgotten. (5-5)
- It necessitates washing. (5)
- An island down under below. (8)
- Determine accurately. (8)
- The nose of pigs. (5)

- Named as a possible candidate. (10)
 - Where wild beasts lay. (4)
 - Is extraordinary a strange thing. (6)
 - Where Monday and Tuesday meet. (8)
 - What the notice says in the park. (4-3-3-5)
- #### DOWN
- Water or liquid container. (6)
 - Entering when uninvited. (9)
 - A Scotsman's delight. (4)
 - A Caribbean town of fun. (6)
 - He is one who wants the Americas Cup. (9)

- Is living and well. (5)
- Maybe an animal bargain. (3-5)
- Literary composition. (5)
- We are told they make four. (3-3-3)
- Nerve pain in the head. (9)
- It shows everyone is welcome. (4-4)
- What goes to make the assembly. (5)
- Add spit and it gleams. (6)
- Actual facts beyond reproach. (6)
- Small insect. (5)
- A temporary hold up, small tear. (4)

Solution to Crossword No. 79

Across
1. Sweet William, 10. Haifa, 11. Penitence, 12-13. Keep to the right, 14. York, 16. Commerce, 18. Festival, 20. Adverb, 23. Fiare, 24. Australia, 26. Aftermath, 27. Ingle, 28. Deerstalkers.

Down
2. Whine, 3. Elastic, 4. Wapiti, 5. Longer-on, 6. Interim, 7. Menagerie, 8. The key of a flat, 9. Weather beaten, 15. Restarted, 17. Caravans, 19. Ice free, 21. Darrick, 22. Ashma, 25. Lager.

Photographs taken by the Staff Photographers are acknowledged in the following way: (A) Alan Keats, (B) Ian Douglas.

The views and opinions expressed by contributors are not necessarily those of the Editor or Company. Any such opinions or comments are those of the contributor alone and are printed solely as a matter of interest.

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