



NEW APPOINTMENTS AND COMPANY STRUCTURE

Announcements by GEC-Marconi Limited and GEC Avionics Limited have made effective a number of changes and appointments at senior levels and a re-arrangement of some of the reporting links of the Rochester divisions and those off-site.



Thus said Her Majesty's Lord Lieutenant of Kent, the Rt. Hon. Robin Leigh-Pemberton, when he came to Airport Works to formally present our fourteenth Queen's Award.

This year's ceremony was not a large one, since the main part of the company's celebrations had been held in July. As well as the Lord Lieutenant as Guest of Honour, there were attending the Mayors of Rochester-upon-Medway and Gillingham, MPs Dame Peggy Fenner and Jim Couchman, Chairman of Kent County Council Sir John Grugeon, and several other local dignitaries. From the company, each division and common service department sent representatives, and around eighty people were in the Conference Suite to see

Stan Wells, Production Manager of CACD, and Katie Andrea, Secretary to the Marketing Manager of ATED, receive the Emblem and the Grant of Appointment.

GAV Chairman Sir Michael Beetham was presiding at the ceremony, and Bill Alexander summarised the background to this year's award, pointing out that over 70% of our £350m turnover is exported. Our products are in use in over 70 countries, and in 1988/89 GAV alone was responsible for almost half of the UK's total exports of aircraft equipment.

In his speech of Presentation, the Lord Lieutenant commented that he felt privileged to come once again to present the Award, seemingly an annual event that is unique in the country.

Thousands of companies are considered each year and only around 100 are successful in gaining an Award, thus GAV can be considered among Britain's top hundred achievers. This year in particular, the Award is to everyone in the company from the most junior upwards. Both large companies like GAV and small ones of 5 or so people, receive awards which are thus for quality not size.

The Lord Lieutenant offered the congratulations of the County of Kent and local mayors, and the Mayor of Rochester, Cllr. Flack, echoed this when he concluded by thanking GAV – "may you continue to put Rochester on the map of the world".

Dr. I. G. MacBean, Managing Director of GEC-Marconi, has appointed Ron Howard, who became our M.D. over two years ago, as Chairman of GEC Avionics, in succession to Marshal of the Royal Air Force Sir Michael Beetham. Sir Michael is retiring as Chairman but will continue as an active member of our Board.

Bill Alexander will continue as Deputy M.D. of GEC-Marconi, and in addition will use the title of Managing Director of GEC Avionics at Rochester. In that position he will be assisted by Assistant Managing Directors Ray Reese and David Clews. Ray Reese will be responsible for assisting Mr. Alexander in the effective running of the company, in addition to being responsible for a number of common services. David Clews will carry out specific assignments on Mr. Alexander's behalf, which will be detailed from time to time.

The third of our existing Assistant M.D.s, John Spinks, is now joined by two newly appointed Assistant M.D.s, Robin Sleight and Brian Tucker. These three will be responsible for the line management of the product divisions, while Flight Automation Research Laboratory reports to Technical Director Bob Wilkinson, whose appointment was recorded in our last issue.

Marketing Director Jerry Fisher co-ordinates the marketing activities of the divisions and the Overseas Area Managers report to him.

Broadly speaking, the three groupings of divisions remain as before, with some changes including discontinuation of the names of the Groups DGSG, CISG and SCSS.

GEC-Marconi Limited

Two senior managers who will be well remembered here at Rochester are among a number of appointments announced recently from Stanmore by Dr. MacBean.

Peter Hearne, who became Managing Director of GEC-Marconi in 1987, is taking up a position in Washington DC as President of their US operations. This reflects the importance of both the large assets GEC-Marconi now own there, and of the US as a major customer.

Wally Paterson, Managing Director of GEC Sensors, Basildon previously GAV's Basildon Establishment, is now an Assistant Managing Director of GEC-Marconi Limited. As well as remaining at the head of GEC Sensors Limited, he will have supervisory responsibility for Plessey Avionics Limited and Plessey Electronic Systems Corp. (US), these being part of GEC's recent acquisitions from Plessey.

FOUR-STAR GENERAL VISITS GAV



In November, General B P Randolph, USAF, Commander, Air Force Systems Command visited Airport Works, accompanied by some of his senior staff officers. With newly-promoted Major Tim O'Brien of our local Rochester Detachment 17 USAF office and his CO, Lt Col Charlie Rolader, here as liaison, the General was

received by senior GAV management and given an overview of Covert Attack Systems, Helmet Mounted Displays, and Advanced Cockpits & Integrated Systems. He also saw a demonstration of some of our major projects and equipment of interest to the US market.

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

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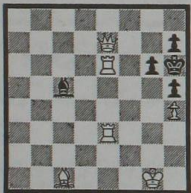
This is the first one we've had for some time. Remember that the Editor is always pleased to insert 'for sale' type announcements – or even 'wanted'!

The only proviso is that the article for sale must be the personal property of the advertiser – no 'trade' ones unless specifically agreed.

CHESS PROBLEM

White to play and mate in two moves

Solution on Page 6



MORE FOR THE BABIES



GSD Social Club have donated £120 out of their club funds to the "Oliver Fisher Special Care Baby Unit" at All Saints Hospital. Here at the presentation are (left to right) Ken Lark of TDO, Dr. Tony Ducker and Derek Moore.

SECOND YEAR AWARD SCHEME

On Wednesday 1 November, Final Year undergraduates assembled to receive their GAV Second Year Award Scheme prizes, which were presented by Robin Sleight, (then) General Manager.

The Scheme, which is designed to strengthen links with Engineering departments in academia was

attended by academic staff from these institutions and representatives from GAV Engineering Teams.

The Second Year Award Scheme, which involves selection of suitable students by adoption of a particular University or Polytechnic by Divisions, brings the opportunity of vacation work in

the Division and a cash prize of £150 to the successful candidate.

Our picture shows the students, together with University and Company representatives, assembled with Robin Sleight and Tony Williams, Personnel Manager.



APPRENTICE IN THE NEWS



Picture by courtesy of the Kent Messenger

The annual BBC Children in Need appeal seems to involve many company people, but the Editor doesn't get to hear of all the stories. (Anyone with a story, let me know! Where was Postman Pat? Ed.)

One which has come to notice is the effort of **Steve Vigar**, Mechanical Apprentice now in CMS. He was spotted by the local press in his St. Trinian's outfit – but he doesn't seem to want that picture published again. Thus dressed, Steve spent his lunch hour (Dave Brook's idea, he says) parading round CMS with a collection tin, then over the public playing field to collect more in the clubhouse at the other side.

Over £160 was collected in CMS, and a grand total of well over £200.

But we'll be hearing more of Steve, as he is planning a major involvement with the ITV Telethon next May. As a keen Boys' Brigade member, he is much concerned with plans to raise £50k from all the Kent BB units.

Congratulations

BIRTHS

To **Jadie Church** of ADD Wiring Bay, a son Luke James.

Apparently this happy event was at eleven past eleven on the eleventh of the eleventh month!

To **Karen Attwood** of Site Services at Naisea, a son John Robert, on 27 September. The proud dad is Robert, Commercial Manager of PCSD Naisea, who until 1982 was in ADD at Rochester.

And **John Carter**, Marketing Manager of RSD Naisea, is now 'Grandpa'. He used to be in ISD.

Blood Transfusion Service

The October visit of the Transfusion Unit resulted in contributions of 565 units of blood. The Unit would like to thank all those who took part.

For your diary –
 visits in 1990

Week commencing 2nd April
 Week commencing 1st October

CHILDREN IN NEED APPEAL

MASD Production were to the fore again, this time to support Children in Need. The raffle for an incredibly large basket of fruit, over 20 varieties were on display, raised £123. The winning ticket, drawn by Sue Wood, saw Ernest Jones of Production Services wheel away the goods.

Thanks to all who generously supported the appeal.

OUR NEWLY APPOINTED ASSISTANT MANAGING DIRECTORS

B G S Tucker
BSc (Hons) Physics,
CEng, MRAeS
Graduated Queens
University,
Belfast 1970

Brian joined Elliott Flight Automation in 1970 as a systems engineer on the BAC 1-11 project. During the next few years he was involved in Concorde Autoland systems and in the start of Flight Control Division's work with Boeing Commercial Airplanes on the Autothrottle system for Boeing 747s. Through appointments of Project Manager and Engineering Manager he was appointed to be Technical Manager responsible for all the Division's engineering activities, including both military and civil programmes in the transport aircraft, helicopter and unmanned aircraft world.

His appointment as Divisional Manager came at a time when the Division's expansion was continuing with the award of the Phoenix



Field Surveillance System contract in 1985. Since his appointment in 1988 as an Assistant General Manager, Brian has been involved with the Anti-Submarine and Sonar

business of the company as well as the continuing expansion of the Flight Controls Division's activities. He is a keen proponent of advanced systems and technologies.

Brian is married to Yvonne who is a teacher and they have two children, Claire 14 and Jonathan 11. Brian lives locally and enjoys a game of golf when time permits.

G R Sleight
BSc (Hons) Aeronautical
Engineering, MRAeS,
CEng
Graduated University of
Glasgow 1959

Robin worked with Vickers Aircraft 1959-61 as aerodynamicist on VC10 and BAC 1-11. He joined Elliott Bros. (London) Ltd. at Borehamwood in April 1961 as a systems engineer and transferred to Rochester in 1962. His initial work was on flight control system design – primarily advanced autopilot modes for the Lightning aircraft. He joined Airborne Display Division as a Project Leader in its formative stages in 1963, spending 2 years 1964-67 at the SE London (Lower Sydenham) site. Appointed Asst. Chief Engineer of Airborne Display Division in 1969, he then spent 2 years 1969-71 in charge of the Company's office in Dallas/Ft. Worth overseeing the introduction of our HUD systems into service with the A-7 aircraft. He returned to the UK at the end of 1971 joining Inertial Navigation Division, where as Project Manager for the Naval Compass Stabilizer System he oversaw its development



and successful completion of trials. He was appointed Technical Manager of Airborne Display Division in 1975 and Divisional Manager in 1985. During the 10 years as Technical Manager, Airborne Display Division completed full scale development of the various generations of HUD systems for the F-16 aircraft from the F-16 A versions through to the holographic units now being delivered for

production LANTIRN equipped F-16 C aircraft. In the period 1985-87, when he was Divisional Manager of Airborne Display Division, the Division received Queen's Awards for both Technology and Export Achievement. Robin was appointed General Manager in 1987. Robin is married to Eileen who is a Modern Languages teacher; they have a son and daughter aged 22 and 20.

"It's always a great event when we congratulate somebody who has worked with us for 25 years. As Head of Department I take pleasure in presenting you'.....er-Mr-er.....
—What's his name?—



A Bumpy Ride

It seemed a simple enough trip, a visit to Developmental Sciences Corporation, Ontario, near Los Angeles, to discuss the software content of one of its projects. The unidentified bang of something hitting the car roof as we travelled along the A303 on our way to Heathrow, the error with the flight numbers and the aborted landing at San Francisco airport, should have warned us that this was to be no ordinary journey. But these were to prove mere mishaps compared to what the San Andreas fault had waiting for us.

The plan was a two hour wait at San Francisco then another plane on to Ontario. We had been in the States for just 40 minutes when the earthquake hit us. I was browsing in the airport shop when the ceiling started vibrating violently, my initial reaction was that the air conditioning system had developed a fault. Strolling from the shop, I realised it was something far more serious. By now, the whole airport terminal building was shaking violently. Deciding I would be far better off outside, I ran for the doors, avoiding the debris of

what had once been the suspended ceiling. Nick Mannerings and Dave Bagwell had remained rooted to the spot by one of the main structural pillars for the duration of the quake. A window display in their vicinity was reduced to a pile of rubble.

We met up outside the building and experienced a further minor tremor. The police moved us from the elevated roadway to a car park at ground level. It was here that we first heard of the collapse of a section of the Bay Bridge, although reports were muddled at this time.

After an hour or so, organisation returned and various airlines made arrangements to move people away from the airport. United Airlines bussed us, via a back gate, to a 747 which we understood was going to Los Angeles, only 60 miles from our final destination. The 747 had a pilot, a handful of cabin staff, but no flight engineer. Eventually he arrived to the applause of the passengers and the plane took off, not for Los Angeles but Seattle, 800 miles in the opposite direction to where we wanted to go!

We arrived at Seattle at 1am to find no hotel rooms were available. The rest of the night was spent in the airport coffee bar, watching news bulletins of the collapsed freeway, damaged houses and rescue attempts

—the enormity of the disaster finally came home to us. The earthquake had lasted for a mere 15 seconds, about one third of the normal duration, but had hit 6.9 on the Richter Scale.

We left Seattle mid-morning, after changing planes because of an air conditioning fault on the Alaska Airlines MD83, eventually arriving at Ontario at lunch time. Unfortunately, in the transfer from San Francisco, my suitcase had gone astray. A quick wash and brush up at our hotel and on to DSC, wearing a borrowed shirt and tie courtesy of Dave Bagwell. We were very warmly received by the DSC staff, who knew we were going to be late, but were unaware we had been in San Francisco at the time of the quake. An afternoon's work, an early evening meal, and, at last, sleep in a proper bed, 52 hours after I had left my own.

In the end our trip was extended by one day. We travelled home, via Los Angeles airport, visiting the Queen Mary and the Howard Hughes Spruce Goose, on the way. A memorable experience and a successful trip which, to borrow Dave Bagwell's phrase "unfortunately got off to a shaky start...!"

Geoff Gingell
(MASD, Yeovil)

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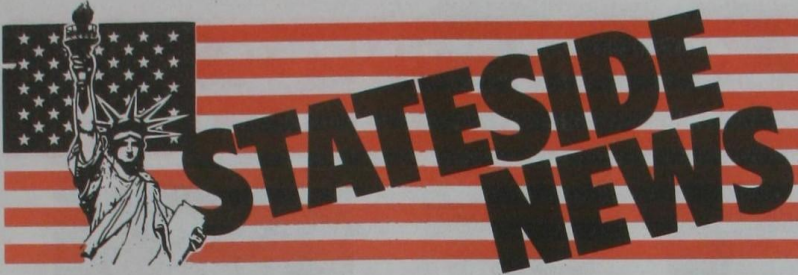
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STATESIDE NEWS

Minister of State from Britain visits GAv Inc.

On Tuesday October 10, the Hon. Alan Clark MP, Minister of State for Defence Procurement, visited GEC Avionics Inc. in Atlanta. During his two hour visit to the company,

Mr Clark was given presentations on the wide-ranging business that both Atlanta and GAv Ltd have in the US. Mr Clark was accompanied on his visit by Mr Julian

Scopes, Private Personal Secretary, Mr John Kenny, Defence Staff – British Embassy Washington and Mr Barry Holmes, HMCG Atlanta.

Later, Mr Clark was welcomed as a visitor to the GEC Avionics stand at the COMDEF Exhibition in Washington, D.C.



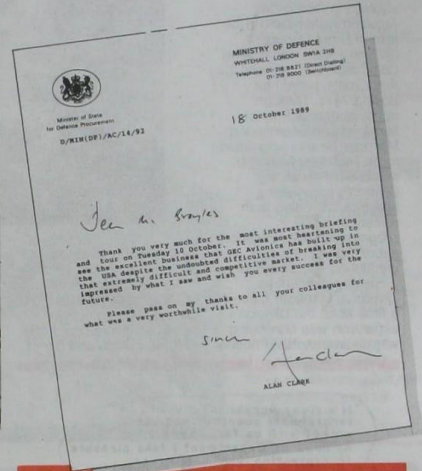
Mr Clark with Steve Damron, Senior Electro-optics Engineer, who briefed the Minister on rangefinder acceptance test equipment.



Mr Clark (second from left) on a tour of the Manufacturing Test area. L to R, Mr Scopes, Hank Kalbach – VP Operations, and Len Cooper – Manager of Manufacturing.



Mr Clark being given a detailed briefing on the Laser Range Finder for the M1A2 tank by Charlie Doerlich – M1 FRF Programme Manager.



Hanover Corporate Challenge



Over 5% of the GEC Avionics workforce participated in the seventh annual Hanover Corporate Challenge Road Race held on September 13. Run in downtown Atlanta, the 3.5 mile race this year attracted some 7000 runners representing all the major corporations in the greater Atlanta area. Beginning at 6.30 p.m., the race was started by Mayor Andrew Young. The temperature and humidity were on the up side of uncomfortable (80deg/80%) but at least it was the

same for everyone. The first mile was a good fast downhill section which helped as the amount of runner traffic was hindering some of the faster competitors. The course after that was mostly uphill or flat with two unforgiving climbs past the university.

The water supplied en-route was much needed and helped to keep the spirits up in the oppressive air. All the team members acquitted themselves very well with a few personal bests for time and distance being accom-

plished. This is the first time that GEC Avionics has entered a team for any event and all involved had a great time. The team are shown with Bill Broyles, President and CEO of GAv Inc., and they are, from left to right (with their finishing times in brackets): Walt Pavio (33:41), Liza James (42:45), Ray Todd (26:33), Tim O'Donnell (34:58), Mattie Tolbert (27:27), Dorothy Cedars (28:21), Jim Wilkie (29:45), Paul Ingles (28:52), Brenda

Eisler (41:42), Sian Hughes (37:17), Steve Brown (27:35), Venie Tadeo (23:52), Peter Simmons (22:45), Steve Damron (23:35).

Overall Results:

Coed Team	25th out of 154 teams
Women's Team	109th out of 131 teams
Men's Team	132nd out of 240 teams

Central Charity Fund

These donations were agreed at the meeting of the Central Charity Fund held on 5th September.

The Motor Neurone Disease Association West Kent Branch £50

The Medway Hospital Appeal for a Hydrotherapy Pool £200

Abbey Court Special School, Strood £100

P.H.A.B. Club (Physically Handicapped and Able Bodied) £200

Action for Research into Multiple Sclerosis £100

Molly Wisdom Hospice Request to purchase a flash attachment for the camera £40

A cheque for £200 was presented by Brian Rogers and Dinah Taylor of the GEC Avionics Central Charity Fund to Mr Les Bennett, the Honorary Life President of the Medway Towns Branch of the British Diabetic Association. Mr Bennett was a founder member of this Branch which was established 35 years ago. It remains an active branch of the BDA and is currently raising money to finance a Diabetic Day Care Centre and a Youth Group to provide support and advice to young people with Diabetes.

If you would like to help the Central Charity Fund in its support of local charities, please ask Personnel Records for an application form.



GAV ATHLETICS CLUB HITS THE HIGH SPOTS



Secretary and Manager Len Murphy with some of the Club's cups and medals.

Someone has said that the GAV Athletics Club has a claim to be the most successful club in Great Britain without a track. At Luton in September this claim was vastly encouraged when the Club won promotion to the British League, Division 5, on a day which at one time looked disastrous. A late rally clinched the qualifying place, on the fourth attempt in five years. "The finest day in the Club's history" said Len Murphy, who has managed the teams through the 14 years over which they have climbed the ladder, of which the first rung was the Kent League championship in 1976.

The Club, whose members come from both within and outside the company, has its main strength in the track events, and with their new status the prospect of a track being built in Mote Park by Maidstone Borough is of great importance, since most of the athletes live in that area. The principle of building the track has been approved and it is thought that the funds are there, but the actual site has to be finalised; there could still be three years to wait, and no one will be really happy until the digging starts. Before completion, the Club's new League fixtures will all have to be 'away'. But the triumph of the promotion remains.

Promotion was gained by cumulative points at that September meeting, but it was August when the club secured second place in the Southern League Division 1, by a win at Aldershot with the highest team score of the season, thus qualifying for the invitation to Luton.

Sadly, the only one of the six division fixtures not

won cost them the League championship as well - by half a point!

The day at Aldershot brought individual wins in all the track events from 100m to 1500m; only in 5000m and 400m hurdles did our runners drop to 2nd place. Notable were Graeme Saker (AS&RD) in 800m and 1500m, Mark Butler (lately FCD) in 400m, Jon Roots (GSD) a personal best at 1500m, with wins by Graeme Storer (MASD) in the javelin and Chris Bowman (ADD) in the pole vault, also with a personal best.

Throughout the summer, despite some unexpected disappointments and one or two near-misses following injuries, the Club's record has been distinguished by a large number of individual and team wins at the many events they have attended. Here, at random, are some of the achievements of the 1989 summer season.

- Top team and all three individual medals, Kent team and individual 3000m championships.
- Kent Relay Championships, 4 golds and a number of other medals: 2 girls' teams, boys 4x100m and youths 4x100m, the boys breaking their previous best time.
- Southern League team wins at Portsmouth, Woking, Hoo, and Colindale.
- The women's section have won promotion to the Kent League, division 1.
- Big win for Spencer Barden in the Schools Home International intermediate 3000m, Dublin.
- In September, Louise Watson came 2nd in the

under-19 3000m event in Athens, also news has just been received of her selection to join a team of 6 girls to represent Great Britain in a thirteen-country Relay tournament to be held in Hawaii just after Christmas. Louise, at present at Maidstone Grammar School, will be one of a pair of runners in either the 3000m, 5000m or 7000m stages.

- Norman Ellis won the English Schools 100m event at Wigan, and a few weeks later set the UK best time for his age, 14.
- Martin Forder (ISD), still only 19, has scored major successes, from Southern Counties level right up to International standard, including:
 - 1st in Kent Junior and Senior 800m, for the third successive year,
 - 1st in Southern Counties under-20 800m,
 - Personal best in an International match at Ipswich, 1500m, when Martin came 2nd to a much older runner,
 - Selection for the European Junior Championships in Yugoslavia, 1500m.
 This achievement is a 'first' for the Club at this level.

During the club's rise through the athletics leagues, effort has not ceased on promoting athletics at the grass roots level. Working on the theory of a high pyramid being founded on a broad base, the club has involved itself in the racing, training and administration of Kent and local Community athletics. GAV members have organised the Maidstone Schools Cross Country races for the previ-

ous three years and have been involved in the Kent Schools at Fort Luton, having set out a comprehensive set of courses for the six age groups in the last two years.

Many new officials have been introduced to athletics through evening courses run in the comfort of the GAV conference rooms, with many of the County organisations using the same facility for their committee and annual general meetings.

GEC Avionics Athletics Club has always provided training facilities for its members, with the student members being the biggest users of the Deangate Track, Hoo on Mondays, the Oakwood Park Grammar School, Maidstone on Tuesdays and Thursdays and the Westborough Sports Centre, Maidstone on Wednesdays. Up to the present day use of these facilities has been free of charge for members, something the club would like to maintain in these days of rising costs for leisure facilities.

The GAV site has been used for a number of years as a course for a well attended road relay in memory of one of the club's founder members, Tom Joyce. This takes place during the Christmas closed weekend but this year, in addition, the Kent Women's Road Relay was promoted by the club at short notice on the first Sunday in October. This proved to be ideal as the highest priority is to have a course that is traffic free, especially when youngsters are competing. This year's Christmas Relay is to include a Veterans' race which is an increasingly popular area of the sport.

The other promotions that the club staged this year

included track matches for the Girobank Young Athletes League and an enjoyable match for Division 6 of the Southern Mens Senior League. Mo Jury (ISD) and Malcolm Martin (CMS) have for many years been jointly promoting, with Medway AC,

a series of winter cross country races.

The club are always looking for new talent, particularly for field events and 400m hurdles.

Anyone recently joined the company out there? Get in touch.

Here is a summary of the Club's progress to the British League in less than 15 years.

- 1976 - Kent League champions.
- 1977 - Southern League division four.
- 1978 - Promoted to Southern League division three.
- 1979 - Promoted to Southern League division two.
- 1980 - Southern League division two.
- 1981 - Promoted to Southern League division one.
- 1982 - Southern League division one.
- 1983 - Relegated to Southern League division two.
- 1984 - Promoted to Southern League division one.
- 1985 - Third in Southern League division one/third in British League qualifying match (two promoted).
- 1986 - Sixth in Southern League division one.
- 1987 - Second in Southern League division one/fifth in British League qualifying match.
- 1988 - Second in Southern League division one/fifth in British League qualifying match.
- 1989 - Promoted to British League division five after finishing second in Southern League division one then second in qualifying match.

GAV Sporting Star in MASD

For some time now wheelchair sportsman Paul Irons (Production) has been battling to maintain his independent way of life. Despite his handicap he enjoys playing basketball and represents Kent Invicta in the British National league. However his wheelchair was beginning to wear out and even a special offer of a made-to-measure chair at £850 was beyond his means.

Paul had been quietly but independently approaching local businesses for sponsorship, not always with success. However, his luck changed when Jon Anderson (Engineering) read his story in the Gravesend Reporter. Jon brought the story to the attention of John Goodhand and Alan Gallagher who persuaded Corporate

Management to donate £200 to the cause. At the same time the Gravesend Lions, a charity fund, donated £250, and another £100 arrived from local sources.

As for the rest, that was easy; thanks to the efforts of Brenda Cardwell, Pat Warner, Denis Mason and Jon, who, in two days, persuaded Divisional personnel to donate £350.

Paul has now bought his wheelchair and a tracksuit covered with Divisional logos, which he proudly wears during training sessions.

Paul would like to take this opportunity to pass on his sincere thanks to all who gave so generously. The new chair will enable him to continue to develop his skills and keep him fit.



Paul receives the cheque from Sue Wood, MASD's Deputy Divisional Manager.

HUDs move to the head



ADD's Falcon Eye Helmet in an F-16

During the next 20 years it is envisaged that the pilot will wear his Head Up Display on his head. For this reason Airborne Display Division are developing a family of helmets, which will do the job of a cockpit mounted Pilot's Display Unit.

On 18th October an International "Helmet Mounted Systems" Seminar was hosted at Rochester by ADD. ADD received an overwhelming response and had to close the guest list at 100. The volume of outside

interest from both Industry and Government in the UK, USA and throughout Europe confirms ADD's position as an international leader in the field.

The seminar featured speakers from the RAF Operational Requirements Branch, Royal Aerospace Establishment, RAF Institute of Aviation Medicine, Farnborough; also McDonnell Douglas, St Louis and General Dynamics, Fort Worth together with internal speakers from both FARL

and ADD. To complete the seminar a comprehensive exhibition of hardware from both FARL and ADD graphically demonstrated "State of the Art" engineering in helmet mounted displays technology.

The day was a major success due entirely to the teamwork displayed by all departments concerned on the Rochester Site, from the Canteen through to Engineering Design.

Innovative START for Lotus

In September, Lotus brought their latest technology active suspension 'Excel' 2.2 to Rochester for a demonstration. Lotus, who have long held an enviable reputation for producing performance cars, wished to show their appreciation of the innovative work undertaken by GSD on a novel solid-state gyroscope.

In the summer of 1986 GSD launched the miniature gyroscope into the market place. In 1987 this new gyro called START (Solid State Angular Rate Transducer) was specified by Team Lotus for their active suspension system on Formula 1 racing cars. During the '87 F1 season START proved its ability when the 'active' Lotus Camel took first place at the Monaco Grand Prix, leading the rest of the field by more than 30 seconds at the finishing line.

Active suspension enables the vehicle to maintain its centre of gravity at all times and in all road conditions by constantly providing an even distribution of the vehicle load over the four wheels. Visibly improved road handling, safety and vehicle ride are made possible by this novel gyro, which senses the rate at which the car turns, causing the suspension to be adjusted within milli-seconds to provide optimum performance.

START is unlike any other gyro currently in existence. It has no moving parts, is very rugged and extremely

cost effective to produce. Originally developed for guided munitions, START has survived and continued to operate following a 25,000 'g' cannon launch shock.

1990s, in many future road vehicles.

Our company investment in the production of this new gyro has opened up additional markets in commercial helicopters and sea systems. Product development and prototype trials in these new programmes have also established several other markets for START.



John Mortimer, GSD Sales Manager, holds up the revolutionary new gyroscope in front of the special Excel during the Lotus visit to Rochester.

Computer finds largest prime number

After crunching away for the past 18 months, one of the world's most powerful computers has finally come up with the biggest prime number yet discovered. Primes are the mathematical equivalent of the physicist's quarks or the chemical elements in the periodic table; they are the fundamental building blocks of the austere, pristine and logical universe of mathematics.

Although it is such a fundamental entity, a prime number has a surprisingly simple definition: it is a

number that cannot be divided by any smaller number, other than one, without leaving a remainder.

But the computation, by a team of six computer scientists at the Amdahl Corporation in Sunnyvale, California, has not been done purely for mathematical machismo in the process of calculating the number, they have developed a new method of persuading computers to do very precise multiplication - a technique that has applications in weather prediction, seismic

research, and aeronautical simulation.

Were it to be written out in normal figures, the world's biggest prime number would require 65,087 digits - which would take up nearly two complete pages of *The Independent*. It is an unimaginably large number; as a comparison, it would require only about 79 digits to number all the particles in the entire known universe. In mathematical notation, the highest prime number is: $391581 \times 2^{2^{6193}} - 1$.

The announcement,

reported in *Science*, was made only after it had been independently verified on another of the world's most powerful computers, at Cray Research in Minnesota. Most of the time and computing power in the quest for these large numbers is taken up in proving that no numbers exist that can divide the postulated prime number entirely. Even for putative primes that have fewer than 100 digits, actually doing the division is out of the question - even for the most powerful super-computers. So the challenge

for the computer scientists has been to devise new and more accurate ways of finding out if one large number can be divided by another - without actually doing the arithmetic.

The previous record for a prime number, set at Cray Research in 1985, had 37 fewer digits, (and so was about 10 billion billion billion times smaller). But this latest advance by the Amdahl Corporation still represents a tiny step. It has been known from early times that there are an infinite

number of prime numbers. In theory, mathematicians could keep breaking the records forever. But just as it becomes increasingly difficult to run faster in the quest for athletic superiority, the limits of computer endurance are pushed to the limit by this search.

(Courtesy of 'The Independent'.)

COMPANY COMPUTERS WILL NOT BE USED TO VERIFY THIS. (ED.)

CHESS PROBLEM SOLUTION

- Key 1 Rf6! Waiting
- 1... Bxe3+ 2 Bxe3 mate
- 1... Bd4-a7 2 Qf8 mate
- 1... Bd6 2 Re5 mate
- 1... Bxe7 2 Rxe7 mate
- 1... Bb4 2 Rc3 mate
- 1... Ba3 2 Rxa3 mate

This is a little known geometric problem. Four of the Bishop's moves are withdrawal unpins of the White Rook from the B+R battery, its remaining moves to keep the Rook pinned let in 2 Qf8 mate. Neally, 1 Rf6! stops 1... Bd4 from being a defence against 2 Qf8 mate.

Rochester Airport (Third of Six)

by Arthur Prosser



www.rochesteravionicarchives.co.uk

SUPERJERKS TIME AGAIN...

Why were people limping about work groaning about aches and pains? Was it another outbreak of flu? NO, they were being jerks. ADD Superjerks. That time had come around again when bodies which normally had difficulty getting to the pub on Friday were given two weeks of physical punishment (strange preferences in ADD).

The entries were slightly down on last year with a total of 26 including 3 ladies and as usual nobody would own up to having done any training. The format of the competition had been changed this year because the army assault course was not available, so a new event had been inserted by one of the organising committee (because he had done it before).

Monday evening saw the start of the competition with the first two events being held in a school gym. First event - Gym tests, normally one of the most punishing events and this year was no exception. A circuit of various exercises to punish the arms and legs in turn and generally knacker every one. Complaints were flying as the number of repetitions of each exercise were seen (sit ups, squat thrusts, pushups, chins and astride jumps). "Hey Jim, we only had to do 15 last year, not 25" was the general call, but maybe it was just wishful thinking and sudden memory of the pain. The first three positions were no real surprise with Alan 'Wimpo' Wart, Rob

Andrexx and Alun Woodger taking the points in reverse order. With everybody still wheezing and panting there was time to start the second event, one calling for co-ordination and a good eye - Basketball. Watching people dribble up the gym (pretty to watch but very messy) and then try and score five baskets provided several upsets with people normally expecting to do well missing out with slow times. Alan Wart gave a display of how it should be done and claimed to set a new competition record of 33 seconds (but then since he's the one with all the previous times we just had to take his word for it). Nicola Stutteridge took joint second place. Sheelah Funne and Jane Wafel were also in the points at the end of the first day, all of the girls having beaten several of the men on the different events. So after two events a clear leader had emerged, but much to everybody's chagrin (because he had scored well in both events) it meant that Alan Wart was in the overall lead.

Day two was the power day with benchpress weight lifting. A higher than normal entry this year with people's plans of easy points from a small field having back-fired (six out of eight events are competed in, no one knows how many people are in each event and points are awarded down to last place). Andy Pampard gave a good performance lifting 25lbs over bodyweight, but was beaten by Paula Davis

who was confident of his ability, waiting until he knew what he needed to lift to win before taking his first lift. He only just failed to lift a new personal record, his best being +56lbs. Having done well in the weightlifting as well, Warty was still in overall lead and was becoming more unbearable.

The fourth and fifth events were both running, held at Deangate athletics track. With the 100m first, followed by the mile, with little rest between them, it was to be a tiring night and noticeably fewer people had doubled up this year having heard or felt how hard it was the previous year.

The 100m produced an immediate surprise in the first heat with 'Chalky' White beating the No 1 seed Kea Puhig in his heat. The other heats went with seeding, having been set on previous times. The final produced a very close finish with Willy Quinton taking the honours. Tom Baker second and 'Chalky' third.

The winner of the mile the previous year was not in the competition having left the company, so it was thought the race would be closer this time with talk of a sprint for the line. This idea was immediately smashed with Mike Bore blasting off from the gun and leading all the way home by a good gap. Alan Woodger was second with a sensible run slowly working his way through the field. Third place went to a dark horse, Dayne Beast, who claimed he had never run a

mile before so didn't know how fast to go. After a good impression of death in the mile, Warty had lost his lead and at last a bit of credibility was installed at the head of affairs in the form of yet another wrinkle, that of Paula Davis.

Overall placings were changing fast now and the next event was always a good one for unpredictable scoring and people blowing out - Rifle shooting. Scoring was very high this year with Alan Woodger setting a new record of 70pts and both Mark Letcher and Rob Andrexx beating the previous record. At the other end of performance, people were still having trouble hitting the paper never mind the targets they were supposed to be aiming at. The ladies were on an even footing with the men on this event and showed their mettle, Nicola 8th, Jane 18th and only Sheelah missing out, finishing 22nd. Some people were so

impressed with their shooting they couldn't stop laughing. Colin Soremills managed to score a 9 on a target he wasn't even aiming at (total 14). Alun Woodger had been sitting near the head of affairs and with both Warty and Old Man Davis running out of events, Alun's win took him into overall lead.

Thursday evening saw the advent of the new event, rowing on an ergometer. This involved simulated rowing action spinning a flywheel and the distance this wheel rotated in 1 min being the deciding factor. The equipment had a sliding seat and the idea was to keep sat on this while rowing, but a lot of people had difficulty and ended up sitting on the ground having fallen off, which everybody thought was very funny except when it was their turn. It was unfortunate that fate was unkind enough to inflame Alun Woodger's haemorrhoid condition causing him problems in staying seated and thus he recorded a minor placing. With tears in his eyes his only comment was "Why wouldn't you let me use my rubber ring". Old Man Davis didn't care and managed to come joint first and thus head the overall leader board again. There were two rowers in the competition - Gordon Flees and Jim Meaney (whose idea it had been to include this event), and they both produced good performances with Gordon coming joint first with Paula and Jim taking 3rd. Several of the people who were leading overall did badly at this event making for a much closer competition.

With the majority of the field having completed their 6 events they could only sit and watch as the final event took place at Hoo in the pool. Dayne Beast was favourite again for the swimming, having broken the record the previous year and in better shape this time. In the final Dayne was being pressed hard by Alun Woodger at the turn, but pulled away to take his expected victory in sub 30 secs, with Alun 2nd, Simon Pratt 3rd and Mike

Bore coming a surprise 4th. The overall results showed a fairly close competition, except at the top where Alun Woodger had won the title Superjerk for the second year running, this time by 13 pts from Paula Davis (the oldest competitor) and Gordon Flees coming third. With Keith Snelling making the presentations, certificates were awarded and special trophies given to Sheelah for the worst score in the shooting, Paula Davis for being an old boot, and Mark Letcher for being game for a laugh and taking the competition in the spirit intended.

The three ladies finished near the bottom of the field but had shown in events where they competed on equal terms that they were as good as the men.

J.E.

Superjerks

	Points
1 A Goodger	115
2 P Davis	102
3 G Lees	99
4 W Quinton	98½
5 M Bloore	95½
6 A Ward	92½
7 R Andrews	89
8 D Reast	88½
9 M Butcher	87½
10 K Duhig	85½
10= L Tomlinson	85½
12 J Beaney	84½
13 J Dhanecha	83
14 T Baker	81½
15 M White	81
16 S Pratten	78
17 A Bamford	75
18 C Mills	66
19 M Willis	64½
20 M Cheeseman	59
21 B Clarke	57
22 A Davies	51
23 N Gutteridge	48
24 M Hadley	39
25 J Wurfel	27
26 S Dunne	22

Mark Butcher receiving the 'Game For A Laugh' trophy is also demonstrating the expression that won him the award.



Alun Goodger (1st) receives the Superjerks Trophy from Divisional Manager Keith Snelling.



Paul David, 2nd overall, receives 'The Old Boot' awarded for the best placed veteran.



...and the ADD Tour de Medway 1989

So another year has passed and it's once again time for the annual ADD Tour de Medway. Nine and a half miles of pain and torture culminating in the daunting Bluebell Hill. Bikes have been retrieved from the back of sheds and garages and the usual promises to "train for this year's race" are once again remembered too late. This year the competition is rumoured to be tough; Kim Staff, pre-race favourite and Great Britain international, Gordon Lees, Engineering's iron man; Mungo Park who had avowed to "bash the Poms" after his country's crushing defeat at the hands of the British Lions, and the much feared dark horse Ray Brogan, Chairman of the South-east Cyclo-cross Association and self-styled "king of the mountains". It was also said that in the light of this year's competition, the previous winner Jim Beaney had decided not to enter as he could not face the prospect of being beaten by a woman!

The start was as usual outside Comet's and people were

beginning to assemble, nervously glancing at each others' machinery and state of fitness. Derek Avey thundered into sight on his 1989 machine, a sleek white low profile, but carrying a noticeable weight penalty around his waist. Marc Cheeseman was wearing a Fagor team vest and carrying a PDM team water bottle reputed to contain banned substances! As usual Alan Ward was striding around confidently proclaiming his fitness and vowing to get even with Mark Butcher who had put him in his place the previous year. The sum of 10p was staked by Alan on the outcome of this personal battle, a measure of his confidence perhaps!

Finally the riders were called to the start, the moment of truth was at hand. Competitors would be starting at one minute intervals and varying methods were used. Paul Davis powered off the line in a cloud of tyre smoke and dust. This, it turned out later, was only to impress the start line 'groupies' as once out of sight he settled into a more sedate pace beat-

ing a man of his age. Dave Haggerty, a man with a long record of failure in this event, made a good clean start and disappeared into the distance, only to be caught and passed by the thirteen riders who started after him before he reached the finish. Kevin Williams from that well known cycling family shot off the line to the loud screams of encouragement from his father and many work colleagues who had assembled to see the showdown between him and Jim Beaney, who had already "bottled it", as many were saying.

Meanwhile out on the course, Kim Staff had passed the two riders who had started before her and was seemingly going to be hard to beat. Her main rival Gordon Lees was also burning up the road, but was known to be suffering from acute lovesickness of late. Marc Cheeseman was now starting his attack and had already overtaken Geoff 'why do I do this' Dias and was setting about Alan Ward, not a hard task as a total of seven

other riders will testify.

At the finish Kim Staff scooped across the line in a time that would remain unbeaten and one that everyone later agreed would have been beyond Jim Beaney's ability, even on a good day (nowadays these are few and far between!). Riders were finishing thick and fast now, and lovestruck Lees finished one and a half minutes off his previous best. Meanwhile on the hill, Mark Butcher was being caught by Rob Andrews who also had Kevin Williams closing down on him. But on the line Mark Butcher managed to stay ahead and Rob and Kevin finished together some three seconds later. John Orennell came home soon after in what was to be third place overall, closely followed by Marc Cheeseman who kept going all the way to the Robin Hood public house. Chris Dangle Dardy, a previous winner, was three minutes down on his previous best time and in a miserable eleventh place; he later explained that this was because he was "run-

ning his new bike in". Mungo Park was last but one home in a fast time that saw him take fourth place, and that only left Dave Haggerty, although by now it was some three quarters of an hour after he had started. It seemed like the old story again, people started to drift off to the pub for liquid refreshment and to await the prizegiving. Eventually even the timekeeper and his wife gave up, but Dave did eventually show up making the same old excuses about mechanical failure etc. (yawn).

So as the sun set and people started to drift home the same old murmurings could be heard, "Next year I'm definitely going to do some training." "I'm sure Geoff Dias uses steroids," "Who is Ray Brogan anyway," etc. etc.

The organisers would like to take this opportunity to thank the timekeepers, marshals and all the spectators for their help and support in making once again an enjoyable "fun" event. Finally, as a result of poor response the Jim Beaney fan club has been disbanded,

(there were only three applications, all by Jim).

Mark Butcher

ADD Bike Race

	Min/Sec
1 K. Staff	25:34
2 G. Lees	27:40
3 J. Orennell	28:00
4 M. Park	28:09
5 R. Brogan	28:20
6 A. Walter	28:54
7 K. Williams	29:20
8 D. Avey	29:33
9 M. Cheeseman	30:06
10 R. Andrews	30:30
11 C. Dardy	31:35
12 G. Dias	32:15
13 J. Seabrook	32:43
14 M. Butcher	33:17
15 P. Davis	35:04
16 R. Brooking	35:36
17 A. Ward	39:16
D. Haggerty	D.N.F.

25 years' service

Les Beaney joined the Company as an Electronic Instrument Maker Apprentice in AS&RD, and in 1969 was made a TA. He gained an HNC in Electronics and was promoted to Development Engineer in 1973, working on the commissioning of ER3 Platform Test Equipment.

Les was promoted to Project Engineer in 1977, still in AS&RD and was involved in customer training on the Jaguar NAVWASS system giving lectures. He expressed an interest in transferring to a product Division and was offered two positions; he chose ADD and joined them in 1979, working in the IFCG and Sky Shadow team and later on Draken test equipment.

Brian Wells, Senior Project Leader in AS&RD, and in that division for all of his 25 years, originally served a Chatham Dockyard apprenticeship and 5 years behind the mast in the 'Wavy Navy', as Electrical Engineering Officer. In AS&RD he started on air data equipment for VC10 – cogwheels and capsules. Through Leading Hand and Foreman, the 'King of the Capsules' in due course became Quality Controller, and in 1974 he



Les was promoted to Project Leader in the Tornado team in 1980; in about 1985 he transferred to helmet and NVS work. When the Cats Eyes FSED Contract was awarded he was promoted to Project Manager, by which time he was playing a leading role in our NVG work for which he is currently responsible. Les has been married for 19 years and has two sons and a daughter. He is a keen swimmer and is acknowledged as a keen gardener and something of an expert on shrubs and flowers.

moved to the Project side from the workshop, as Planner on the Jaguar NAVWASS exchange scheme. The name was changed to Planning Engineer and he was promoted to Project Leader in 1982, to look after the Tornado and other projects. Brian's wife Jennifer came in to see him receive a Carriage Clock from Production and Repair Manager Ken Rhodes.



Ann Manktelow joined the Company in 1964 working on NCR machines in the Accounts department. At that time her father, Len Hubbard, was Administration Officer. Subsequently she transferred to EDP department and spent

13 years in the Punch room. Moving with the times, Ann returned to Accounts as a Data Prep Operator and is now employed in the Cost section. Ann received her presentation from John Franklin, Deputy Chief Accountant.

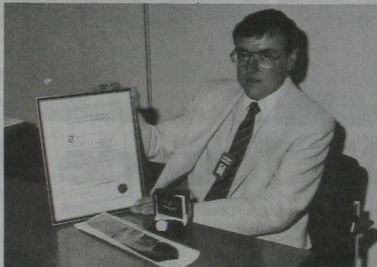


There was a double presentation in ATED for **Doug Maxey** and **Dick Patrick**.

Doug served a technical apprenticeship, and after doing some work on Concorde and ILAAS (pre A-7) HUD programmes, he joined ATE in 1970. Rising through the ranks of Engineering, on several big projects, he had by 1978 become Project Manager on the major Nimrod ATE contract. Later Doug worked on MRCA (Tornado) and travelled around Europe, and when that programme ended he spent a year at Milton Keynes. Lately he has continued his habit of working long hours, involved with several proposals including the recent AFATS. But Doug has still made time over many years to fit out and sail his cruisers, and has his wife and 3 daughters well trained up as crew. His Private Pilot's Licence is more of a solo achievement.

Dick Patrick took a Physics degree and taught in Sittingbourne before joining as a hardware engineer, but within a few months was learning computer programming, the hard way, on-the-job. In 1966 Dick attended the first ATLAS committee – he was the only person in the

GSD, previously IND, has been the 'home' of Senior Project Engineer **John Graham** since he took up the post of Technical Assistant on completion of his apprenticeship here. That was at the time of the start of the Jaguar project, and with the development of the E3R platform and on several later projects, John



Gordon Marriott has retired after 27 years with the company, which he spent mostly in IND/GSD, but with some time in FCD during which he took up his latest job as Inspector. Gordon has also served as Shop Steward and as a member of the

division who had programmed a computer. Next, he supervised a big sub-contract on IBM, being responsible for all software, self-test software, and system engineering on the project. But his longest task was on Tornado, co-ordinating the work of many software companies. Since then Dick has done a series of tasks at the forefront of ATED's diversification, and has become particularly widely known and respected throughout the industry for his work on standardisation, especially as European Vice-chairman of the IEEE ATLAS activity, for which he has been elected to a second term starting shortly. Over many years he has held other important appointments on that committee.

And outside work Dick has been equally active. He was a Councillor in Sittingbourne for 12 years, including a year as Chairman of Council and periods as chairman of other bodies. A more recent involvement is as Executive Committee and Council member in the Kent Trust for Nature Conservation.

Dick and Doug received their presentations from Divisional Manager Arthur Colwell.



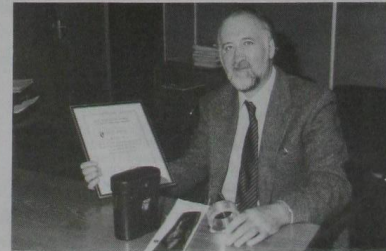
Greta Finch, Confidential Secretary in 'the towers', has the unusual distinction of working for the same boss throughout her 25 years at Rochester. When she came to work for Ron Bristow, now Assistant General Manager, he was transferring from Borehamwood to be Divisional Manager of Precision Test Equipment

Division, which became ATED. Greta has thus 'followed the job' from the Flying School to Thorns Building, then upstairs. In this picture Greta receives the congratulations of Ron Bristow, with Site Services Manager Chris Frost, for whom she also works, looking on.



Mike Thomsett went through several divisions during his Technician Apprenticeship, and in 1969 settled in ATED as TA, working on Nimrod Test Equipment. But in 1970 he moved to TACD/old FCD/CACD, and right through till 1985, as Development Engineer and Senior Dev. Eng. he was

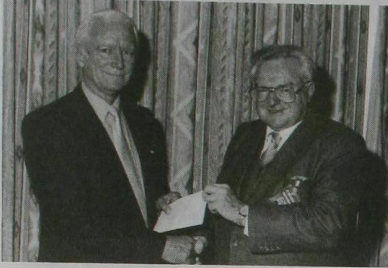
involved with almost everything on Tornado, most recently on SAGE, and is now on the Production Support Group. At home Mike is interested in repair of clocks and old book binding, and between here and there, in the car park sometimes, "will anyone buy my superb Laxton apples?"



Retirements

Ian Dougall, Company Chief Estimator, says (estimates being what they are) that he came to Rochester about 20 years ago, from Borehamwood where he had already been, for around 14, in GW Division and Airborne Computing. The commercial computers he then used contained valves. At Rochester, Bill Alexander

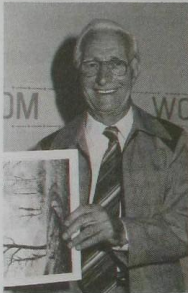
recalled when making Ian's presentation, he could not think of many of our big contract proposals in which Ian had not been involved, to the great benefit of the company. And, estimates being what they are, Ian is not sure when he will finally give up the part-time work he is now continuing following his formal retirement.



Vera Presland has been involved with IND/GSD's Scheduling and Stock Control activities for about 13 years. Here she is seen with Stock Controller Chris Potts and other friends and colleagues, when she retired prior to going to Australia for a long holiday.



Ash Houghton of Works Engineering has completed over 9 years of service as Painter.



Charlie Thornton has been known as the WES 'Handyman' for many years. He has now retired after fourteen years service here. (B)



Bill Lockett, Import Officer in GAv Import/Export office for over fifteen years. (B)



Just as GAv News went to press we received the sad news of the unexpected death of Bill. His department and friends extend their sympathy to his son Nigel, and lament the loss of a good friend.

Gerry Millward has now retired after a most varied career, the last 20 years of which have been at Rochester. In fact the last 27, but he did go to live in Canada for a short period. Gerry was educated in China, at a British Grammar School, and then in Lancashire and on TS Conway. He took a qualification in Cotton and Textile Spinning, and saw war service as Lieutenant in the RNR. After the war he did

various jobs as a representative insurance salesman, and buyer, coming for his first period at Elliotts in sales and contracts, in MACD. When he came back from Canada again in 1968 he re-joined MACD as Sales Office Manager, and has remained in the same area in a wide range of marketing and sales roles. Divisional Manager Chris Humphris gave everyone's best wishes to Gerry.



Joy Brighty, after a short spell as Assembler in IND, moved to AS&RD as Tracer and became a self-taught Technical Illustrator. Chief Illustrator Charles Clift presented Joy with framed picture, signed by many friends and colleagues, to commemorate 28 years of service with the company.



Arthur Kirby spent 15 years in the Royal Navy before joining Guided Weapons Division in 1954 as Wireman. His 35 years here have been spent in the new-formed IND since 1960, and later in TACD and then IND again, where he was Section Leader in Engineering for 9 years. In 1984 Arthur returned to FCD as Production Engineer, being promoted to his latest post of Senior Production Engineer in 1986. He received his farewell presentation from Ray Dennis.



Ethel Weeks was one of the first evening shift Cleaners in WES, where she has been for nine years.



OBITUARY

It was with great sadness that Applied Physics Division learnt of the sudden death on 27th October of **Vinny Cook** at the age of 54. Vinny was a Principal Planning Engineer in the Production Department for experimental assemblies required by the prototype laser tube programme. He had been employed by GAv and Elliott Brothers since 1960.

He was well known in Borehamwood, particularly as a keen footballer, and managed two local teams. He was also a member of the Royal British Legion and gave considerable support to the Elliott Sports and Social Club in a management capacity.

As a measure of his esteem the Church of St. Michael and All Angels in Borehamwood was filled with friends and colleagues who attended the funeral. He will be sadly missed by us all.

Our sympathy goes to his wife, and his two daughters, son and grandson.

From APD

Jim Prince, formerly in AS&RD, who retired in 1981, has passed away leaving his wife Vi. Jim, who was fondly known as 'Gentleman Jim', will be dearly remembered by his many friends in AS&RD.

From AS&RD

It was with deep sadness that we learnt of the death of **Graham Faye** on 28 October 1989.

Graham was a member of the Field Service department of AS&RD where he had worked since joining the Company just 25 years ago.

During his time with AS&RD, Graham had supported a wide variety of Company products including, Jindvik, Lightning, Nimrod, Tornado, Jaguar and Phoenix. His work took him to many parts of the globe including Ecuador, India, Nigeria and the Arab States.

Tributes from the RAF and British Aerospace were added to those of his friends and colleagues at Norwich Crematorium on 1st November.

Graham will be sadly missed by his colleagues and our deepest sympathy goes to his widow and family.

From AS&RD

It is with regret that we report the untimely death of **Joyce Baker** (the lady with the hats).

Joyce retired 5 years ago after working for GAv for about 20 years, the last 18 with ATED.

On 7th September Joyce moved from Davis Estate to Corby, Northants, with her brother Bob also of ATED. She died on 5th October 1989.

From ATED

Jim Rowe,
from his family

"I'm writing to thank all the staff for the money you raised for us after my husband was killed in a road accident.

I know a great deal of work went into it, with people doing things in their own time to help.

It is a comfort to know that people thought so much of Jim and will miss him as we do.

Thank you all once again.

From

Karen, Ben and Sam Rowe."

Maurice Goulding of WES has worked mainly at Gads Hill and the Flying School on cleaning and maintenance. (B)



Don Gobbet, Quality Technician in AS&RD for twelve years, started in that division in 1971 as Wireman and became Instrument Technician after 2 years. Joining Don in his retirement is Berkeley nuclear power station which he helped to commission when it was built - now closed! (A)



INTER-DEPARTMENTAL CRICKET CHAMPIONS 1989

Way back in August we reported the victory of CACD Engineering in the 1989 tournament.

Quite rightly, they felt that the team should have their picture in GAv News. Here they are.

Back Row (L to R): Yogesh Thanki, Mark Thayer, Glenn Dickman, Sean Cutler, Peter Fowler, Martin Lee, Mark Connolly, Stuart McFarlane.

Front Row (L to R): Robert Sancassani, Roggie Sahota, Paul Thompson, Chris Berry, Mahesh Mistry, Tony Daly.



Sports and Social Club Round up

INDOOR GAMES SECTION

Another season has drawn to an end with the completion of the Leagues and Knockout competitions which were held during May over 2 or 3 nights depending on the number of entrants.

Each of the Leagues ran from October to April and without, I hesitate to say, too much aggravation.

The major Leagues were finely contested and the eventual winners and runners-up are as follows:



L-to-back: Richard Marshall, Bob Berry, Peter Norrington, Andy White
Front: Andy Hughan (now in CACD), Alastair Bell

Darts

League Trophy

MASD won the darts trophy under the captainship of yours truly for the third year running no less (Do we now keep the trophy?), with a gallant ADD taking the runner-up trophy under the captaincy of Phil (we'll have you next year) Price.

Teams were:

MASD
A. Hughan (Capt), A. Bulford, B. Farahar, P. Norrington, R. Marshall, A. Bell, D. Neal, A. White, & R. Berry.
ADD
P. Price (Capt), P. Goodall, M. McNalty, C. Tovey, J. Sharp, J. Stewart, & P. Frid.

Singles and Doubles Knockouts

Andy Hughan (yawn) won the singles again, beating the unexpected Peter Williams, an old adversary from FCD, by 4-2, Andy only dropping 3 legs all evening. Welcome back, Pete!

The doubles are always an open event but the fancied pairing of Phil Price and Paul Goodall were making hard work of earlier rounds.

After the dismissal of myself and Peter Norrington (still, you can't win everything) by Richard Marshall and Andy White, a mirror final of MASD and ADD was set up.

Richard Marshall and Andy White eventually beat Phil Price and Paul Goodall 4-3 in a nail-biting final.

I am afraid that I was not present at the other competitions so unfortunately can only give you the winners and runners up which are as follows:

Bar Billiards League

Winners - CACD
J. Durrent and M. Adams.
Runners up - MASD
A. Bulford and B. Farahar.

Pool

League Trophy

Winners - S. Malone, I. Rose and P. Corbett.
Runners up - K. Watkins and M. Weller.

Singles Knockout

Winner - J. Davis.
Runner-up - R. Carpenter.

Doubles Knockout

Winners - G. Hudny and D. Parker.
Runners up - D(S.A.) Smith and J. Stanley.

Snooker League

Winners - BP.
E. Spillett, S. Spillett, M. Agnew, A. Calvert, G. Smith, T. Oxenham and P. Russell.
Runners up - D. Pritchard and G. Pritchard.

The leagues have all been under way for some time now for the 1989/90 Trophies, except for the Darts League which is unfortunate, and a little sad, as it is the first year since I've been at GAv (9 years) that we have not had a Darts Competition. But I am sure that we can still have the Singles and Doubles Knockouts at the end of this season and hopefully have a league again next year, especially as the Management are proposing to have all the points gained from any of the Company's sporting events going towards the Divisional Sports Championship.

Divisions - let's hear from you!

Andy Hughan

Cards

Euchre League

Winners - D. Moore and M. Huntley-Chipper.
Runners up - D. Waller and T. Loveridge.

Euchre Knockout

Winners - T. Spillett and I. Spillett.
Runners up - D. Pritchard and G. Pritchard.

Cribbage League

Winners - H. Hamblin and D. Sinclair.
Runners up - D. Pritchard and G. Pritchard.

Cribbage Knockout

Winners - S. Spillett and T. Spillett.
Runners up - H. Hamblin and D. Sinclair.

LONG SERVICE ASSOCIATION 6th Annual Dinner and Dance

Over seven hundred people, members and spouses – often both of them members together – sat down for the Dinner in the Main Canteen.

A five-course meal prepared by Chef and his helpers was served after the sherry reception, and the formal part of the evening was concluded by the Toast to the Company, proposed by the Association's President, Dick Collinson. The Reply was made by Bill Alexander, and the Toast to the Association by Jack Pateman. Finally Chairman John Goodhand gave a Vote of Thanks.

A great many people stayed on, greeting old friends and making new ones, for the dancing which was to "Sounds Versatile".

This was by far the biggest LSA Dinner yet, and was much enjoyed.



With Dick Collinson on the left, Mrs Collinson receives a bouquet from Di Firth.

John Goodhand gives flowers to Eileen Papworth who does so much of the 'staff work' for the LSA and its Annual Dinner.

Some of the guests enjoying the social evening.



SPORTS DAY Five-A-Side Football

In the last issue, a misprint in the official results of *The Sports and Tournaments* was reprinted in the colour-page summary. Unfortunately this deprived Nailsea of their due credit and gave it to SSD Welwyn to whom apologies must be due.

Nailsea want to put the record straight so here it is.

At the Interdivisional Sports Day in July, Nailsea were represented for the first time. Nailsea teams from RSD and PCSD reached the semi-finals of the 5-a-side tournament, with RSD going on to win a close fought final against MASD 2-1, the winning goals coming from Colin Goatley and Welsh Mackendrick.

(L-R) *Peta Luckhurst, Andy Lockyer, Colin Goatley, Steve Lingard, Tony Smith, Sean McCloughlan, Welsh Mackendrick.*



GAv/BP Kent Club SWIMMING SECTION

ANNUAL GALA/ SPLASH AND DISCO

The Swimming Section invites children of ALL Club Members to a Swimming Gala, Splash and Disco to be held at the GAV/BP CLUB POOL on Saturday 6 January 1990

A party tea will be provided and Father Christmas is expected to present a small gift to all Gala and Splash Entrants.

The Gala will start at 2.30 pm (All entrants report at 2.00 pm). The Splash will start at 2.30 pm. The Splash is for young or inexperienced swimmers who can swim two widths (very young with armbands if required) or one length.

The tea, Prizegiving and Disco will be held in the Club Ballroom. Tea from about 5.30 pm, Prizegiving from about 6.00 pm and Disco from 7.00 pm until 10.00 pm.

(Age at 6 January 1990)

- SPLASH** — Boys and Girls of any age 2 widths or 1 length
- Group 1** — Boys and Girls under 10 1 length (25 yards)
- Group 2** — Boys and Girls 11 & 12 2 lengths (50 yards)
- Group 3** — Boys and Girls 13 & 14 2 lengths (50 yards)
- Group 4** — Boys and Girls 15 & 16 2 lengths (50 yards)

ENTRY FORM

Please enter my child in the following events:

- Breaststroke Backstroke Freestyle
 Splash (two widths) Splash (one length)

Child's Surname

Christian Name

Date of Birth Club No.

Signed (Parent/Guardian)

Address

Tel. No. (Home)

(Work)

Please send entry forms to Dave Jibb, ADD Engineering or Cyril Moffett, ISD Production.

Further Information Contact:
 Dave Jibb, ADD, 3907
 Cyril Moffett, ISD, 3855

Club-House attractions

DECEMBER

SUNDAY 24th December
CHRISTMAS EVE FUN NIGHT

with
KEITH HOWARD ROADSHOW
 7.45 – 11.45

Bar open from
 Noon – 2 pm and 7.00 – 11.45 pm
 All other facilities closed

MONDAY 25th December
CHRISTMAS DAY

Bar open from
 Noon – 2 pm ONLY
 All other facilities closed

TUESDAY 26th December

BOXING DAY

Bar open from
 Noon – 2 pm ONLY
 All other facilities closed

WEDNESDAY 27th December –
 SATURDAY 30th inclusive
ALL FACILITIES OPEN AS USUAL

SUNDAY 31st December
NEW YEAR'S EVE DANCE

with
"HAPPY DAZE"
 8.00 – 12.45
 No guest tickets available

Bar open from
 Noon – 2 pm and 7.00 pm – 12.30 am
 All other facilities closed

JANUARY

MONDAY 1st January
NEW YEAR'S DAY
 All facilities open as normal Monday

ENTERTAINMENTS PROGRAMME still curtailed during rebuilding
 Enquire for future weekends.
 Medway 251492 – Short code 6009

For your diary
 SATURDAY

17th February 1990
ST. VALENTINE'S DANCE

EVER WANTED TO TRY...
SUB-AQUA?



COME TO THE
GAV/BP SUB-AQUA CLUB OPEN NIGHT
 WEDNESDAY, 17th JAN, 7-10pm
 AT THE BP SOCIAL CLUB POOL, HOVE
ABSOLUTELY FREE! BRING A T-SHIRT AND TRY IT!!

ANNUAL GENERAL MEETING

The Club's Eighth Annual General Meeting will take place at 8 pm on **THURSDAY, 22 FEBRUARY 1990.**

The Constitution requires a number of Management Committee representatives to seek re-election after two years in office. At the AGM, three vacancies exist and nominations should be in the Secretary's hands by 31 December 1989.

GAv/BP KENT CLUB ELECTION 1990

Nomination for Ordinary Member of the **MANAGEMENT COMMITTEE** (three vacant seats for GAV employees)

Candidate's Name (please print):

Candidate's Signature:

Club No:

Date:

Proposer's Signature

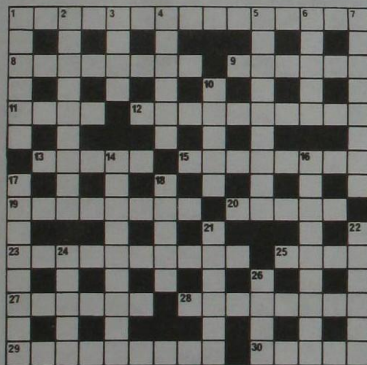
Club No:

Secunder'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 31 December 1989

Crossword No. 98 For amusement only



ACROSS

- Speechless (2, 1, 4, 3, 5)
- Follow in order (8)
- Wax pencil (6)
- St. Patrick's tale (4)
- Rope made ready, manually (4, 6)
- Put on performance (5)
- Sometimes French or German. Lorraine can help (GSD) (6)
- One who sees most (8)
- Pile on one another (5)
- Hate or bitterness reveal set end (2, 4, 4)
- Old boy for age (4)
- Grand climax (6)
- Religion or politics, he's in it! (8)
- 29 and 30. Cockney friendliness with first names (2, 8, 5)
- Girl's name (5)
- The 'Sun' says it is by 'VFM' (4, 5)
- Swampy marshes act as one for insect (9)
- Backwards and forwards (2, 3, 3)
- Weird (5)
- Make over formally! (6)
- An island in the sun (6)
- Breathing organs in vertebrates (5)
- An authorisation (4)

SOLUTION TO CROSSWORD NO. 97

- ACROSS:**
 1. Power station, 10. Integer, 11. Empower, 12. Logbook, 13. Diamond, 14. Wendy, 15. Off chance, 17. Australia, 20. Proof, 22. Trooper, 24. Stimuli, 25. Reading, 26. Amok, 27. Heads of state.

- DOWN:**
 2. Octagon, 3. Egg cosy, 4. Strike oil, 5. Amend, 6. Impatch, 7. New mown, 8. Willow pattern, 9. A ridge of hills, 16. Flagstaff, 18. Stomach, 19. Replica, 20. Paid out, 21. Ovum, 23. Regis.

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

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