

## MCD Strike Oil

### Breakthrough in the North Sea

Chevron's 3 platforms in the Ninian Field, 100 miles north-east of Shetland, will be equipped this year with emergency shutdown valve (ESV) monitoring and control equipment for eight valve systems. Capacity is to be included for all future pipeline safety valves in the field.

British Petroleum's system will control the 36" gas pipeline ESV on the Ninian Field to Sullom Voe Terminal link, and will interface with GAV's existing main control system on the Ninian Central platform.

These contracts follow MCD's successful completion of subsea control equipment delivery to BP's 'Don' oilfield.

### Deep water

The Total contract is for a new computer based system integrated with their existing platform supervisory system, monitoring and controlling the deep-sea wellhead 'christmas trees'. Total's development is at the Alwyn Voe platform, near the Ninian Field, and in 400 feet of water. An important feature of the project is that MCD's wellhead control modules are designed for maintenance recovery and re-installation on the sea-bed structures entirely by remote control with the assistance of Remotely Operated Vehicles - no divers are needed.

Delivery of the control system will be in Spring next year, with production start-up from the wells scheduled a few months later.

## GAV's Envoys to the Palace



Seen here just leaving for Buckingham Palace are John Clover Production Director, Jane Staff Project Engineer ADD, and Nisar Mirza Engineering Manager FCD.

The occasion was a Reception held by HM the Queen for representatives chosen by companies receiving a

Queen's Award to Industry in 1989. This was the finale to GAV's celebrations of the Award for Export Achievement given to the whole company. John, Jane and Nisar all had the honour of shaking the Queen's hand at the reception, at which the Duke of Edinburgh and the Duke of Gloucester were also present.

MCD's Oil/Gas Group based at Nailsea has received three important contracts from the oil companies Chevron UK, BP Exploration and Total. They are for the supply of subsea pipeline production control and safety equipment to a combined initial value of £5 million.

Peter Hewlett, MCD's Divisional Manager, says:

*"These orders give us confidence that market predictions of 350 subsea wells on the UK Continental Shelf over the next 10 years will be endorsed. They place the division in a very favourable position to obtain a substantial share of the business."*

## ADD's Latest Style

### Worn by VIP from MoD

With an eye to the future, ADD are offering for competitive evaluation a development of their established Cats Eyes night vision goggles, now to be fully integrated into the pilot's helmet. This equipment is to be a contender in the 'Eye Nights' programme of flight trials to be conducted this summer in aircraft of the US Navy at their Patuxent River Air Test Center. The externally mounted Cats Eyes are already a standard NVG for US Navy and Marine Corps aircraft, and the latest design is a logical follow-on giving much greater pilot comfort and safety.

The Integrated Night Vision Helmet, which also includes miniature display elements to provide a full "HUD" on the Head" capability, results from



Air Marshal Sir Kenneth Hayr in the 'Eye Nights' helmet.

over 10 years of development by ADD and FARL (now TSRL). This new design has application in both fixed and rotary wing aircraft, and was successfully flown for the first time on a helicopter last month. This provides further confidence that it is a good design which will perform well in the imminent fixed wing aircraft trials.

A prototype was shown to an important visitor from the Ministry of Defence recently. The Deputy Chief of the Defence Staff (Commitments), Air Marshal Sir Kenneth Hayr KCB CBE AFC RAF, came to Rochester, accompanied by his Military Assistant Lt Cdr J Harbour RN, as a guest of GAV Management; during his visit he was shown round MASD, CACD and ADD, seeing some of our technology and meeting the people who have designed and manufactured these advanced products.

### STOP PRESS! LATE NEWS

*A Flight Controls Division team have won a close Second place among 95 GEC Companies who completed the GEC National Business Game. Well done!*

*On a different subject, you could watch BBC1 'Tomorrow's World' on Thursday 14th June.*

## 100th Edition!

The copy now in your hand is the hundredth in a line which started in 1977. Since then the company has prospered, expanded, and changed in many ways, not least with the addition of many colleagues off-site and overseas. We now include them as part of what a previous Editor, Jess Griffiths, often referred to as 'the company family'. I would like to think that the description includes all of us and our families at home, and GAV News aims to inform and maybe educate and amuse us all.

But this also means that everyone - the readers - has a part to play in fulfilling that aim. News of you and your achievements, and those of the company, is what makes a newspaper. Your help and interest in sharing the news and views is vital - let's have your contributions to the next hundred!

And to help celebrate the century, here's a 'new look' to the paper as well.

Francis Latter  
Editor

## Glyn Thomas MBE Dies

The return from the Easter holiday was marred for a host of friends and colleagues of Glyn Thomas, General Manager until 1987, by the news of his death which occurred during that weekend.

Jack Pateman CBE has written a tribute to Glyn, with whom he worked for so many years. This appears on Page 4.

## GEC Award of Distinction for Doug Taylor



Douglas Taylor, MBE, MPhil, MRACs, MIMechE, CEng, a Consultant Engineer here at Rochester, has been awarded GEC's prestigious Nelson Gold Medal for his personal technical contribution to the company's success.

The citation describes him as having an "outstanding inventor's talent for appreciating whole problems, creating effective solutions and winning the support of others".

GEC Chairman Lord Prior presented the medal to Doug, who now joins 33 GEC technologists who since 1984 have received one for "outstanding technical achievement of exceptional merit within GEC".

See Page 4 for a 'pen portrait' of Doug.

### Inside

Pages 2 & 3 GAV Community News: 4 & 5 GAV People: 6 & 7 Spotlight on FCD & GSD: 8 & 9 News & Features: 10 Long Service Awards & Retirements: 11 & 12 Sports & Social Club News



Editor: Francis Lutter

### GEC Avionics News

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Rod Cole, MASD; Dave Lucas, ADD;  
Mrs J. Underwood, MCD;  
Barry Wallington, Training Centre;  
Ken Gaville, SE&D;  
Maurice Sparham, COB (Flying School);  
Phyllis Ellis, CMS.

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

### Editor's Notice Board

#### Davis Estate Post Office

We have received the following letter:

May I introduce myself? Peter Thurlow, Sub postmaster at Davis Estate Post Office, 3 Shirley Avenue, Chatham. The purpose is to inform you of the new business hours:

Open Monday-Saturday at 9.00 am, closed 5.30 pm, except Wednesday 1.00 pm and Saturday 12.30 pm.

Some time ago it was suggested to me that "lunch time" opening would be advantageous to a number of your employees. I am pleased to say that the Post Office have now agreed to these extended hours.

I am also presently trying to obtain a vehicle licensing facility at this Post Office.

This is unfortunately a prolonged negotiation, but should it prove successful I will notify you accordingly.

Signed  
P. Thurlow

Les Berriman, Foreman in CACD, is now back after a long period of sick leave. He would like to thank the large number of friends and colleagues who sent their best wishes while he was away. In particular he wants to thank his divisional management, and the people who visited him in hospital and at home and who sent cards and letters.

Do you know anyone  
who is finding it difficult  
to get around?

### FOR SALE Batricar Deluxe

Has own charger, frame with plastic cover and inside mirror. Extra tarpaulin cover. 20 mile radius, mounts kerbs and has variable speed control switch. Never been used.

Contact: Lorna McPake, Ex 3894.  
£1500 o.n.o.

## GAv & the Community

# When Fire and Water Mix for Charity

Sunday 25th March  
saw over 60 members and  
guests of the GAv/BP Yacht Club  
assembled in the Sports and  
Social Club Hall for a  
Flares and Liferaft  
Demonstration.

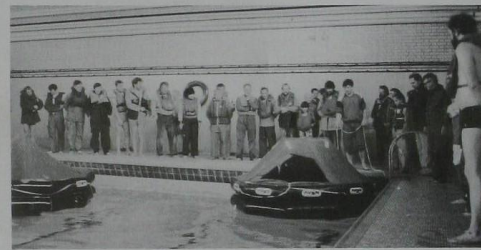


Red Smoke!

The proceedings started with a talk, by Mike Moody, on the types and use of Yacht Distress Flares. This was followed by a practical demonstration on the Football pitch. After a much appreciated break for lunch, supplied by the Club caterers, an introduction to the use and storage of Liferrafts was given by Paul Barrett. Those wishing to put theory into practice then donned an assortment of foul weather gear and lifejackets to try the Liferrafts in the swimming pool. It was decided that cold fire hoses and wind generators would be too severe for Mothering Sunday.

As far as can be ascertained all those attending enjoyed the experience and learned a lot from it. The event raised over £300 for the RYA Seamanship Foundation, which will go towards their work with handicapped and blind people wishing to go sailing.

Finally, thanks must be given to the Sports and Social Club Committee for allowing the use of the Club facilities for this event.



Liferaft demonstration

## We're In The Net

Those of us who need to make telephone or fax calls to other GEC companies should note that our own telephone exchange is now connected to the G-Net corporate network, for both voice and data communication. Besides being cheaper, this makes a call as easy as the existing "short-code" dialling and gives the additional advantages which we already find on 'internal' calls - such as dialling to extension and ring-back if engaged. Our existing short-codes transfer automatically to the new system, and a full list of GEC and Plessey companies connected to G-Net is now in the Rochester internal phone directory.

## PEDALLING HARD!

### FCD in Granada Wheel Appeal

We hope that someone  
will have some energy  
left to write and tell us  
about this worthy effort  
afterwards.

On Sunday 17th June, FCD have entered a team of around 30 intrepid pedal-pushers in "The Biggest Bike Ride in the World", in the GEC Avionics name.

This London-to-Brighton ride is a sponsored event in aid of the British Heart Foundation and is likely to attract over 20,000 riders.

There is still just time to show your support for FCD's efforts in aid of charity. GAv will be providing transport to and from the event for riders and their machines. Nobody has yet admitted to appearing in fancy dress, but for the sponsorship possibilities contact Sanjay Sakaria, Ex 3215.

## Generous Blood Donors

Next visit  
1st OCTOBER  
For one week

The March visit of the Service resulted in the collection of 564 units of blood, and the Unit would like to record its thanks to all who donated.

# Our Donations help local causes

## Central Charity Fund

The past twelve months has been a very busy and productive time for the Central Charity Fund. Following last year's efforts to swell the number of subscribers, the membership now stands at just over 500 – a significant increase but there is still room for improvement.

This increase in the amount of money available means that the Fund has been able to help a much larger number of local organisations than before.

After each Committee meeting a list of recipients is displayed on the Company notice boards so that members can see where their money is going.

If you would like to join the Central Charity Fund, please ask for an application form from Personnel Records.

**Remember, it only costs 10p a week, deducted from your pay, and for every 10p you donate, the Company donates another 10p.**

## Here is a typical list of donations – from the March Committee meeting.

Medway Hospital Hydrotherapy Pool Appeal Raffle Prizes	2 cases of wine
Kent County Constabulary Holiday for disabled children	£200
Medway Gingerbread Group	£150
Ravenwood Day Care Centre for the Disabled	£100
Parkinson's Disease Society	£150
Lee Kelly Severely disabled 4½ year old. Towards purchase of specialist computer equipment	£250
Strode Park Foundation	£100
National Assn. for Premenstrual Syndrome	£100
The Leonard Cheshire Foundation Raffle Prizes	2 cases of wine
Mr K. Rains – CAC Division	
Christopher Children's Ward – All Saints Hospital	£200
Manor House Hospital	£200
The Jeannie Campbell Breast Cancer Radiotherapy Appeal	£50
Age Concern – Gillingham	£200

## Apprentices' boost for Special Needs

During March a collection was made at Hopewell Drive Training Centre, in aid of the Marlborough Unit in Gillingham, which caters for children with special needs.

The money raised, a sum of thirty five pounds, is to be spent on a Model Railway. Mrs Garlick from the Unit was presented with a cheque by five trainees in the Training Centre.

The charity was chosen as being a worthy cause, which, because of only caring for a few children, is not particularly well-known and does not receive much public attention.

A card made by the children and staff has since been received with their thanks.



Paul Bennett is handing over the cheque to Mrs Garlick, together with Stewart Baxter, Mark Whetton, Lisa Welch, and Elli Bateman.

## Donations Committee

In addition to the donations made by the Central Charities Fund, GAv also responds to the great number of requests for sponsorship and support received from individuals, and local and national organisations. While national appeals are usually sent for consideration by GEC, a committee chaired by Sir Michael Beetham decides which of the appeals of local and company interest should be granted aid in money or kind by GAv.

### Some typical grants agreed recently:

RAF Museum, Hendon	To support the "Battle of Britain Experience" exhibit
King George's Fund for Sailors	A regular donation
"The Sharks" Helicopter Display Team	Sponsorship
The Mayor of Rochester-upon-Medway's Welfare Fund	Raffle Prizes for Charity Ball
Gillingham and Medway Music Festival	Class sponsorship
Royal Air Forces Association	'Seed' funds for Reach for the Sky collection
Manor House Hospital League of Friends	Purchase of Equipment
Rochester Choral Society	For funds
The Royal Engineers Association	Support for local REA
3rd Medway Scout Group	Help with building project
Medway Aircraft Preservation Society Ltd	Part sponsorship of flight of privately owned Spitfire over Kent airfields on Battle of Britain Day.

## Rochester Airport (Fifth of Six)

by Arthur Prosser

## CHESS PROBLEM

SO MUCH DAMAGE WAS CAUSED BY THE AIR RAIDS OF 1940 THAT PRODUCTION OF THE STERLING BOMBER AT ROCHESTER WAS SUSPENDED UNTIL 1942. PRODUCTION OF THE BOMBER WAS TRANSFERRED TO SHARNBORO AND MANCHESTER. ALTHOUGH PARTS WERE MADE AT SHORTS AIRPLANE WORKS AND AT HOBHOUSE STATION IN STROOD, THE DRAWING OFFICE WAS EVACUATED TO ROCHESTER GRANGE, COMPONENTS FOR THE SPITFIRE AND HURRICANE WERE ALSO MADE AT THE AIRPORT WORKS.

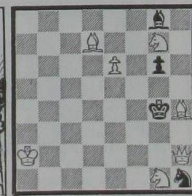
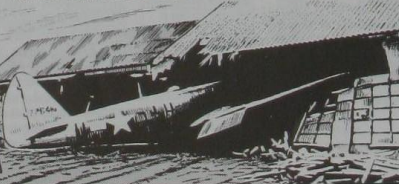


WHEN GERMAN INVASION APPEARED IMMINENT WOODEN SCAFFOLDING WAS PLACED AROUND THE AIRFIELD AT NIGHT...



"...THIS WAS TO WRECK THE LANDING OF WAR PLANES TO THE GROUND AND WAS REMOVED AT DAWN. ONE HOUR WAS THE REMOVAL AND THE LITTLE HAD A HURRICANE MARKING AN EMERGENCY LANDING ALMOST HIT THE POLES."

THROUGHOUT THE WAR THE AIRPORT WAS USED AS AN EMERGENCY LANDING FIELD FOR DAMAGED ALLIED AIRCRAFT RETURNING FROM BRITS ON THE CONTINENT. AT ONE TIME AN AMERICAN P-51 THUNDERBOLT FIGHTER CRASH-LANDED AND RAN INTO THE WORKS CENTRE.



White to play and mate in two moves  
Solution on Page 12

## Obituary

### Glyn Thomas, MBE

It is with very great regret that I record the death of a Founder member of the company Mr D.G. Thomas, on 16 April, 1990.

Glyn was born in Wales on May 11, 1921, and emigrated to Canada at the age of seven. He worked for a time at E.K. Cole and joined Elliott Brothers (London) Ltd at Borehamwood in October 1950. He joined the Aviation



Glyn Thomas, taken when he retired in 1987.

Division on its formation in 1953 as Chief Electronic Designer, in which capacity he designed the autopilot for the F23/49 aircraft which later became the Lightning, the first British supersonic fighter in production. Together with his colleague Staff Ellis they established design standards on which the Company prospered for many years.

He transferred to Rochester at the end of 1960 as Head of Design of Military Aircraft Controls Division and in 1965 became Production Manager MACD where he successfully introduced a number of improved production control methods. He became Divisional manager of AS&RD in 1969 and General Manager of the Company in January 1978. He retired in May 1987.

He played a leading role in the formation of the Medway Enterprise Agency and was its Chairman from its inception in 1982 until his retirement. During his period of office the Agency became one of the largest and most successful in Kent, and many small businesses in the county owe much to Glyn's enthusiasm and energy. For this achievement he was honoured with an MBE in 1986.

Glyn tackled every task to which he was assigned with total dedication; nothing was ever too difficult for him and his contribution to this company and to the community was immense. But there was more to Glyn than just a busy company executive. He was a devoted family man who was at his happiest when in the company of his wife and daughters on their boat on the Broads. To his wife, Peggy, and their two daughters we extend our heartfelt sympathy.

Jack Pateman

### Roy Collett

The Applied Physics Division were saddened to learn of the death in January of Roy Collett. Roy retired from his post of Liaison Officer for the Neutron Tube programme in August 1989, having served within APD and its successors for 22 years. During those years he had been Production Manager (Neutron tubes) and later the Divisional Administration Officer.

Roy and his wife Celia had moved some months ago to a new home at Cowplain, near Portsmouth.

The funeral was attended by colleagues and friends from APD. Our sympathy is offered to his wife Celia and the family.

from APD

### Bill Newstead

Bill Newstead, Embodiment Loan Officer in BACAD, passed away on 28th January, following a long illness. Bill joined the Company in May 1979.

Bill had worked in the Division for many years and approached his job with much energy and enthusiasm, and was a valued member of the CACD team. During his time in the Company he made many friends throughout the site and he will be sadly missed by all.

from CACD

# Doug's Gold Medal

— and his latest invention is a means of recovering un-manned aircraft at sea

Doug Taylor, who has just been presented with his Nelson Gold Medal by GEC's Chairman, came to GAv in 1979 after 34 years in the Royal Navy. Joining the Navy as Ordnance Artificer Apprentice in the days of the 15" gun, he made rapid progress and in due course was selected to train for a commission.

Doug went through RNC Dartmouth and his formal studies were at the Royal Naval Engineering Colleges at Keyham and Manadon, where he gained his chartered status.

His long association with aeroplanes started when he took the specialisation in

aircraft engineering and construction. Later, his service in aircraft carriers included an occasion in the Far East when unserviceable catapults led him to the idea of the famous Harrier "ski-jump" launching system.

Originating in 1969, this concept reached the stage of successful flight trials at RAE Bedford in 1977, and the system was soon installed on the carrier HMS Invincible.

After adoption by the Royal Navy, the system is now also used by the Indian, Spanish, Italian and Russian navies and has thus become widely known throughout the world.

Doug's work on the ski-jump led to the grant of sabbatical leave which enabled him to obtain his MPhil at Southampton University. It was 1979 when he retired from a wide ranging naval career, as Lieutenant Commander, and with the MBE had been awarded the previous year.

He came to GAv when one of the possibilities was to become involved with MASD's 'Sea King replacement' project, but he was invited to join Dick Barltrop's advanced systems team with a very open brief, initially working on the MACHAN pilotless aircraft project which was the forerunner of FCD's Phoenix programme. More recently, Doug has been engaged on innovative concept and design work on several important new areas of business for the company. Notable among these have been sub-sea Remotely Operated Vehicles - 'flying under water' - and his latest invention is a means of recovering un-manned aircraft at sea, which has received Admiralty support. All this has led to Doug's award from GEC.

Married, with a daughter and son, he now lives near Margate and so is able to continue his interest in catamaran sailing.

## A Challenging Three Months

Recognition of AS&RD Expertise



Terry Osborne holds his plaque, flanked by Mo Sadeghpour and Receptionist Pat Pilbrow. Behind him (l-r) are his instructor colleagues Steve Ray, John Truslove, Colin Carey, Tony Charlesworth, Bernie Arlington, and Simon Pearson, with Mike Barton in the centre. (A)

**TERRY OSBORNE**, Senior Instructor with AS&RD's Customer Training School, has been presented with a plaque, on behalf of an important overseas customer.

Mike Barton, Divisional Manager and Mo Sadeghpour, Manager of the School, said that the plaque was in recognition of a "well presented, interesting and professional" course, held at GAv Inc., Atlanta, early this year. Terry was stationed in Atlanta for about 3 months, preparing the course with some last-minute restructuring to meet the customer's technical needs, to fulfil the requirements of Grumman Aerospace on whose S-2(T) Tracker aircraft GAV's equipment is fitted.

The equipment on which Terry was lecturing was a derivative of MASD's MAPADS-O2F Acoustic Processing System, and SESD's ORION 4460 Intermediate and Depot level ATE.

Terry has been with AS&RD for about 6 years, following 22 years in the RAF where he was a radar fitter. The service tradition of moving from posting to posting seems to be continuing in the CTS, but he says he is now glad to be back with his wife and four children.

## Honours at MKC

GEC Avionics Prizes go to our Young Trainees

GEC Avionics Prizes of £100 have been awarded at Mid Kent College to Neale Hambidge and Gillian Leeson.

Neale, ex-apprentice and then IA in FCD, received his prize for his work in the BTEC HNC in Electronic Engineering, in which he gained six distinctions in the ten units required. Now he is being sponsored at Queen Mary College, London, studying for an Honours degree in Computer Engineering. Gillian was a Trainee Software Engineer from 1986 to 1989 and carried out her on-the-job training in CACD. She achieved a good HND and is now working for the oil industry.

### Professional Awards

An ex-apprentice from ADD, David Orchard, is now being sponsored to study for an Honours degree

## The New Chief at Astronics



As very briefly mentioned in the last issue, David Dallob has joined our colleague companies in Los Angeles, California.

In February, the formal announcement was made by Dr Gerald Seemann, Chairman of the Board of Lear Astronics Corp., of the appointment of David to the position of President and Chief Executive Officer of Lear Astronics. In addition he is to act as Chairman of the Board of Developmental Sciences Corp.

Dave's career has been centred around aerospace or related high technology industries, and his qualifications include extensive experience in both U.S. Defense and overseas marketing. Before join-

ing Astronics, Dave was Executive Vice President of Varo, located in Garland, Texas. In this position, he was responsible for the four divisions which were involved in the design and manufacture of Weapons Delivery Systems, Power Systems, Advanced Materials and Applied Optics. Prior to Varo, Dave was employed for 13 years with Sperry Corporation, initially as a general manager in a number of positions of increasing authority,

which culminated in his appointment to the position of Corporate Staff Vice President for Operations.

Dave holds a BS degree in Industrial Engineering and an MBA from Hofstra University in New York. He was an Adjunct Instructor at the University of New Haven Graduate Business School from 1977 to 1984, and he is a member of the Government Contracts Council, Machinery and Allied Products Institute, American Defense Preparedness League, Navy League, and Association of Old Crows.

Dave is married with a grown-up daughter and young son, and we hear that golf and coin collecting are among his interests.

## New Apprentices Show Their Promise



This year's presentation of indentures at the Hopewell Drive Training Centre was held on a Monday evening by Assistant Managing Directors Robin Sleight and Brian Tucker. A steady stream of apprentices, about 80 in all, came along with their parents, often in family parties.

Instructors and superintendents were on hand to explain the training programmes in the lecture rooms and workshops; some ex-Hopewell Drive trainees among the visitors hardly seemed to recognise the place after completion of the refurbishments last year. It was an informal evening, with refreshments on hand and a chance for the apprentices who joined us last summer to show off their work with their friends.



Top: Michelle Moulang, Electronic Skilled Apprentice, receives her indentures from Brian Tucker. Her mother and boy friend look on.



Middle: Mark Whetton, Electronic Technician Apprentice with his mother; Robin Sleight welcomes him.

Bottom: Electronic Technician 'Sam' Holder with her father and brother discussing the work.

in Mechanical Engineering at Nottingham University. David received the Institute of Mechanical Engineers (SE) Award for his progress at MKC.

Shelley-Ann Pay, Senior Buyer in ISD, received the Institute of Purchasing and Supply Award for the best professional level student on the IPS course she is now following, having first completed her HNC. Shelley-Ann started as a Commercial Trainee six years ago and took up her present post when she qualified.

### A double award for Chris Colston

The Kent branch of the Chartered Institute of Marketing gives annual awards in conjunction with the

Mid Kent College for the best part-time student in business studies. Chris, ex-Commercial Trainee and now Contracts Officer in FCD is this year's recipient of the prize, consisting of a trophy and a valuable course at the CIM training college.

The prize is sponsored by British Telecom, North Downs and Weald District.

In addition, Chris has won the Medway and Gillingham Chamber of Commerce prize for the best HNC student at MKC.

Chris completed his 3-year training course last summer; he says he is interested in plenty of sport—in particular he is riding in the Granada London to Brighton charity bike race with a team from FCD.



Chris Colston, seen here, and the other winners received their prizes from M. Xavier Loucheur, Director of the Chamber of Commerce and of the Industrial Training Centre at Valenciennes in France, which is Rochester's twin town. Ron Howard and Ray Reese were also present.



Neale Hambidge



Gillian Leeson



David Orchard



Shelley-Ann Pay

# We deliver

Successful products  
a key to the success  
Milestones

...in **FCD**  
in the air

500 not out –  
SFCC Success



The A320 in landing configuration with the FCD-controlled flaps and slats deployed.

Airbus Industrie is one of Europe's success stories and Flight Controls Division is proud to be part of that success. FCD has had a thriving relationship with Airbus Industrie extending to over a decade, with the design and manufacture of secondary flight control systems fitted to a range of Airbus aircraft.

### Milestones

Since November 1979, with the award of the initial development/production contract to FCD for Slat & Flap Control Computers, many achievements have been made.

Now, a great pride is taken in announcing the delivery of the 500th aircraft set scheduled for later this summer. This particular shipset is destined for the 200th A320 aircraft, which in itself is a significant milestone for an European enterprise in the manufacture of aircraft for the world market.

### The systems

Two Slat/Flap Control Computers (SFCC) are produced for each aircraft and they form an integral part of the Fly-by-Wire control system for every A310, A300-600 and A320. They have been installed on the aircraft since the first generation of A310 which first flew in March 1982 and received its Certificate of Airworthiness in March 1983. A follow-on programme to fit a similar system to the A300-600 saw the first unit fitted to this aircraft type in April 1983, and a subsequent programme for the all-new FBW A320 commenced delivery in August 1986.

The system on each aircraft type is broadly the same, being based on the principle of dual dissimilarity in both the hardware and software to provide fault protection of the aircraft secondary control surfaces – Slat and Flap. Two dissimilar microprocessor computing lanes for command and monitor functions, each microprocessor being targetted with a different software suite, ensure that unless there is total agreement between the lanes, no surface movement can occur.

The system is operated throughout the world by more than 50 airlines, and together with deliverable spares, FCD has produced well over 1200 units. Worldwide customer support for the system is provided by Aviation Service & Repair Division with technical representation, training, AOG, and full repair services on a 24 hour, 365 days a year basis.

### Teamwork

Production rates are geared to aircraft deliveries and the success of the A320 demands production rates in excess of 20 per month. Co-operation between all the departments in Flight Controls Division ensures that these targets are met. The accompanying photographs show an SFCC from each of the current production programmes, together with some of the team that has contributed to its success. Gratitude is also expressed to the many Flight Controls Division subcontractors who have assisted in the programme.

### Some of the Airbus Production team

The top group includes people from Test, Inspection, Assembly, Wiring, Planning, Progress, Stores, Stock Control and Quality Assurance.

The lower photograph features more from Production including Wiring, Inspection, Production Engineering, Progress, Scheduling, and Purchasing. Mingling with them are representatives from Contracts and Engineering.

A310



A300-600



# Guide to the GAv/BP Kent Club Sections

The "Social Club" has developed over many years, and from its early days as the "Elliott Sports and Social Club" with premises in Gillingham has now become "The GEC Avionics/BP Kent Club". The double name stems from 1982, when amalgamation of the two social clubs of GAV and the BP refinery on the Isle of Grain led, because of the refinery's closure, to GAV's decision to enhance the Club's facilities by acquiring BP's Clubhouse at Hoo. This provided



much more comprehensive and enlarged premises, in which members and their families now enjoy many activities, and in which many of the Sections described in these pages have regular meeting times.

This "Guide" is intended to give employees at Rochester a summary of all the Club's activities, as a reminder to keep and perhaps to encourage members and non-members alike to join in shared interests in the various Sections. Maybe there are some that are unknown to you!

## The Clubhouse

The facilities of the Clubhouse at Four Wents, Hoo St. Werburgh, have been considered for some years as among the most luxurious in the Medway Towns.

Set in fifteen acres of grounds, there are facilities for members and their guests such as: Bingo, Snooker and Pool, Bowls (outdoor green), Cricket (2 squares), Netball (1 court), Soccer (1 pitch), Squash (2 courts), Swimming (indoor heated pool), Tennis (4 championship style courts).

For social activities the newly refurbished and enlarged Lounge Bar is now complete, with a specially designed Family Room for the use of members with their children. The 60 x 30 foot

Ballroom and carpeted sitting out area are used for most of the Club's programme of dances

and social events – information about forthcoming events is posted around the factory and listed in GAv News.

The Ballroom has a fully-equipped stage and sound system, and cinema facilities. Upstairs, "Alexander's" Restaurant now has a coffee lounge opening on to a balcony overlooking the sports fields. Chef offers an attractive menu at extremely favourable prices. 60 people

can be accommodated, individually or as party bookings, and many divisional or private groups have enjoyed the lounge bar in this restaurant. (Bookings through the Club Office [9-5], Medway 251492.) Downstairs, a range of fast-food dishes is available every evening and at lunch-

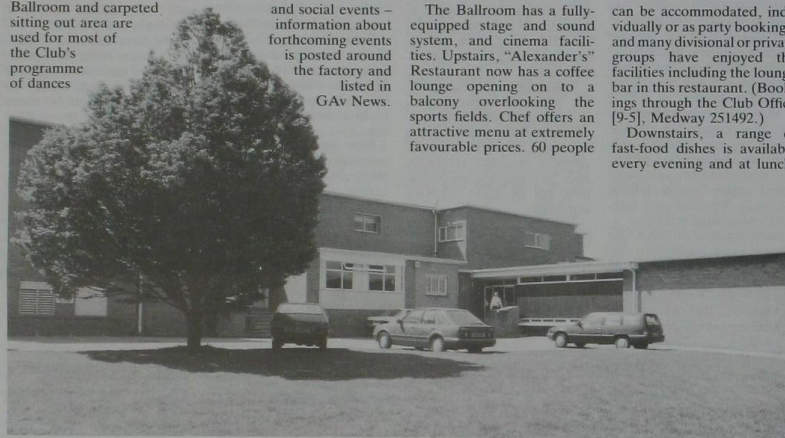
time on Wednesdays and Fridays.

One of the most popular facilities is the 25-yard Swimming Pool, heated to 83°F (28°C). The depth ranges from 3ft to 9ft 10ins. The Pool has its own dressing rooms and a public address system used for galas and championships. For opening times see Back Page.

The Squash Courts are available (except on Section night – Thursday evening) from 12 noon – 11 pm weekdays/12 noon – 10.30 pm on Sundays, and must be booked by the member wishing to play. Bookings are not accepted by telephone.

There are two ladies' and two gentlemen's dressing rooms for those playing Squash/Cricket/Soccer/Tennis/Netball.

Also, some of the Sections have their own private facilities in the Clubhouse – see their individual notes.



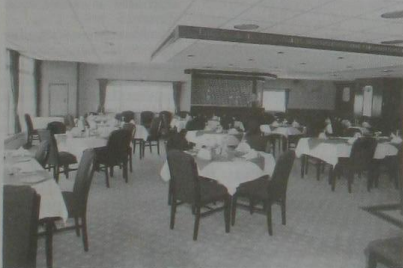
The Clubhouse



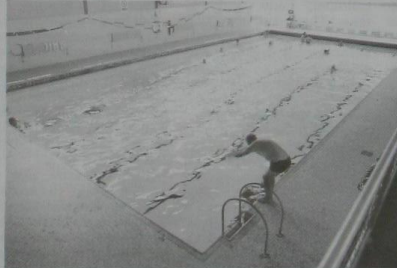
The Ballroom



Part of the enlarged Lounge Bar



'Alexander's' Restaurant from the new coffee lounge



The Swimming Pool

## Subscription

20 pence per week, deducted from pay at source when membership is confirmed.

## Management Committee

(Following the Election at the Annual General Meeting, February 1990).

<b>Chairman</b>	John Bradley	Director of Personnel, GAV.
<b>Vice-Chairman</b>	Peter Bird	MASD Production
<b>Members:</b>	Jim Collins	Social Secretary, office in Snack Bar Tel: Ex 3217
	Rod Cole	MASD QA
	Keith Jones	c/o WES
	Hugh McArthur	Training Dept. Hopewell Drive
	Cyril Muffett	FCD Production
	Ray Newman	AS&RD Production
	Terence Oxenham	BP
	Tony Oxenham	GSD Test
	Jim Troy	CACD
	Roy Wade	Fisher

## Appointed Members:

<b>Treasurer</b>	Mark Perry	GAV Accounts
<b>Assistant Treasurer</b>	Valerie Squires	GAV Accounts
<b>Secretary</b>	Maurice Finch	Clubhouse Tel: Medway 251492 Short code: 6009

The Management Committee meets each month and directs the overall affairs of the Clubhouse and the Club in general. Day-to-day management of each section is conducted by a committee elected by its members, responsible to the Management Committee.

## Amateur Radio

The Amateur Radio section is intended for any member of the GAV/BP Club with an interest in any form of radio communication. Whilst the current membership is predominantly of people with amateur radio transmitting licences, the section will welcome anyone with an interest in radio, including short wave listeners and other radio enthusiasts, whether or not they have a transmitting licence.

You do not have to have a transmitting licence to enjoy amateur radio. Many people like to just listen to short wave radio and, in fact, most licensed amateurs spend a considerable amount of time just listening or "earwiggling" and learning.

The main objectives of the section are to enhance members' enjoyment of amateur radio and to assist non licence holders in obtaining the qualifications required to gain a transmitting licence. It is also to provide a centre for people, of a like mind and interests, to participate in amateur radio activities and to provide radio facilities which they may not have at home.

The section has a radio room, colloquially called a "shack", at the Hoo clubhouse, with receiving and transmitting facilities for the popular amateur radio frequency bands. These facilities are available to any section member at all times when the Hoo clubhouse is open.

Meeting dates are varied and members are kept informed of the programme of Section activities by means of a periodic newsletter. Meetings are usually either held in the Radio Room at the Hoo clubhouse or sometimes at the main factory in one of the canteen complex conference rooms. Starting time is usually at about 7.30pm.

Activities include group or individual operation of the section's radio equipment, teach-ins of specialist radio techniques or operating modes, contests, outdoor operating, equipment testing and modification/construction, and visits to places of a radio interest.

Membership fees are currently £5.00 per person per annum. There is no restriction on membership numbers and we will be glad to welcome anyone interested in radio into the section, so if

you are interested please contact any of the following persons:

John Burton,  
G6IVP, Ex 4581  
Bob Endersby,  
G1AZJ, Ex 3629  
Bob Oxley,  
G3WWI, Ex 4331

## Angling

Our aim is to provide all club members with an angling facility, whether it be competitive or leisure angling, coarse or beach/boat angling. We are also trying to build a reputable coarse angling team.

Meeting places are decided by the committee which meets every month. All matches and meeting places are advertised on company/social notice boards well in advance. We have our own fresh water lake at Grain.

Subscriptions: Adults £2.50 Juniors £1.50, applicable only to members of the main Social Club, otherwise an extra fee will have to be paid. There are always vacancies available.

Contact: G. Blythe,  
MASD, Ex 4440.

## Archery

The Archery Club provides the resources and facilities for its members (senior and junior) to enjoy and improve their game of Archery, whether it be at a club level or striving to attain a classification recognized at national level.

The Archery Club, known as the Elliott (Rochester) Archers, meets at the GAV/BP Kent Club, Hoo.

Meetings are on Sunday mornings at 10.00am throughout the year. Shooting starts at approx. 10.30 am. From April to October shooting is also possible at the club on Tuesday and Thursday evenings from 4.00 pm onwards.

Due to the nature of the sport complete novices are not allowed to shoot "on the line", without some prior training. We provide a course of instruction (approx. 6 weeks) by which time prospective members can decide whether they are suited to Archery, without having made a commitment to join the section or pay the subscription. However we do make a small charge of £2.50 for the course of instruction, this includes insurance cover, a pamphlet on Archery and a finger tab.

Having been in existence since 1966, the club has established a good range of equipment suitable for both beginners and the more proficient members. This is freely available for use by the members as appropriate to their level of skill.

The club has a friendly family atmosphere both in terms of operating and membership. Vacancies exist for all classes of membership, men and women in the senior section (18 plus), girls and boys in the junior section (8-18 years). Membership is open to all members of the GAV/BP Kent Club and a limited number of short-term members.

Subscriptions are currently: Senior £8.00 per annum. Junior £4.00 per annum. This includes full affiliation to the "Grand National Archery Society" (GNAS), and incorporates an insurance fee to cover shooting activities.

For further information contact either:

Bernard Arlington,  
(Hon. Sec.), AS&RD,  
Ex 3712, or  
Brian Teather,  
(Chairman), ADD,  
Ex 3422.

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(Chairman), ADD,  
Ex 3422.

## Ballroom Dancing

The ballroom dancing section meets every Thursday evening, in the clubhouse ballroom, at 8.15 till 10.15 pm. The term starts in September, with a short break at Christmas, and continues till June. Entrance fee is seventy five pence per meeting.

There is a friendly, relaxed atmosphere, with dancers ranging from beginners to intermediates and advanced dancers. Individuals are able to learn to dance at their own pace.

Tuition is supplied by Mrs Sheila Goodchild, with some assistance, when needed, by the advanced dancers. The dancing covers ballroom, Latin, and old time. There are also 'fun' dances which all members, even complete beginners, can enjoy.

New members will be most welcome.

Contact: Brenda Jewell,  
GAV, Ex 3512  
Clive Thompson,  
GAV, Ex 3836.

## Bowls

The aim of the Society is to provide recreational bowls at

every standard of enjoyment for all members. We have our own outdoor green opposite the clubhouse at Hoo.

The outdoor season opens usually in the last week in April and continues until 30th September each year. An indoor league is arranged and is played at Deangate indoor bowls club throughout each winter, at 5.30 pm on Tuesday evenings.

Matches against other bowls clubs are arranged throughout the year (fixture cards are available when joining the bowls section).

Subscriptions: £2.50 per season plus 50p for each outdoor competition entered. When members are selected for club matches a fee of £1.30 is made which includes tea.

New members are always welcome. On joining you must obtain flat soled shoes before playing, and a set of bowls will last a lifetime.

Contacts: Captain - R. Stephens, Medway 250984. Vice Captain - R. Keahane, Medway 251005. Ladies' Captain - M. Osborne, Medway 250148. Secretary - A. Colman, Medway 270782. Match Secretary - L. Mantley, Shore 2548. Committee Member - C. Tullett, Internal 3582.

## Climbing

The section is active throughout the year, visiting various climbing walls in the evenings, and getting out into the hills at weekends. Lately we have been to Scotland, North Wales, the Lake District (twice), and the Peak District doing both rock and ice climbing. We have plans to visit a few other favourite haunts.

Our main activity is specifically climbing; although this does involve all the other skills associated with mountaineering (e.g. camping, walking, abseiling, drinking a lot) it does tend to be the motive behind these peripheral activities. We don't have a definite meeting place but are always pleased to see new members (but can only accept members over 18). So if you would like to sample the sport or polish up your technique, please contact Rob James in TSRL or Sue Brewster in MASD (Ex 3483).

Did you know that the current world champion is English? And that Climbing will be a demonstration sport in the '92 Olympics? Could you be a potential gold medalist? Come along sometime and find out. Don't

let the annual subscription (currently £2.50) put you off, we'll let you have a free go!

## COMUS

COMUS is the Computer Users section of the club, whose aim is to enhance the computer awareness of members, to encourage user groups within GAV/BP Kent Club, and the transfer of common interests and information between members and groups.

We have our own Comus Club Room at the clubhouse, Hoo, and meet on the second Monday of each month at 8.00 pm. The club room is equipped with several computers and peripherals.

The current subscription is £2.00 per year.

Contacts: John Phyll, SESD (Secretary) Ex 3856. Harry Iles, SESD (Treasurer) Ex 3913. Ian Colvin, SESD (Chairman) Ex 3978.

## Cricket

The cricket section plays every weekend from late April until September. Games are organised for Saturday and Sunday, along with a number of mid-week games. The team does not play in a league, preferring to play medium-to-high standard friendly matches. Home matches are played at the club's own cricket ground at Hoo.

The team has no specific vacancies for players, but will always welcome players of a reasonable standard, regardless of whether they are batsmen, bowlers or just fielders!

Section fees are £5.00 a season, plus a match fee which includes teas.

Contacts: Tony Francis (Secretary) TSRL. Robin Tyler (Treasurer) Accounts, Ex 3816. Colin Jasper (Fixture Secretary) GSD, Ex 4189.

## Golf

The GAV/BP Golf Society provides some 7 competitive outings to clubs in and around Kent from April to October, also 'Singles' and 'Doubles' knockout competitions run throughout this period.

A Christmas outing is arranged, and the Society also hosts an Annual Dinner Dance and prize-giving.

The GAV/BP Kent club provides financial assistance in subsidizing Green Fees for outings, since the Society has

no equipment or facilities at the clubhouse at Hoo.

Membership levels are annually in excess of 100. The aims of the Society are:

- To provide opportunities to play golf socially and competitively;
- Encouraging colleagues to take up the game;
- Fielding representative teams to play against other companies (GEC employees only).

Contacts: M. Broome (Hon. Secretary) GSD Eng., Ex 3273; P. Fowler (Captain '90) CACD Software, Ex 4376; J. Collins (Competition Secretary) Snack Bar Office, Ex 3217.

Enquiries by post in the first instance are requested. All-day outings are from about 8 am to 9 pm.

Section Fees: Membership Fee £7.00 for 1990 plus 50p per head per Knockout Competition. Each outing will cost approximately £25 per day.

The Society has no limit for membership and welcomes all enquiries from members of the GAV/BP Kent Club. Day outings would not be suitable for complete beginners! All enquiries can be made in writing to the Secretary.

## Horticultural Society

The section aims to help members obtain the greatest enjoyment from their gardens by providing many benefits including:

- Free admission to the RHS Gardens (including Wisley) throughout the year. (Max. 4 people per visit)
- Free admission to National Rose Gardens at St. Albans
- Use of the club's reference library
- Use of less common tools (ie garden roller) purchased by the club
- Price reductions on production of our membership card at certain local nurseries
- Purchase through the club of a wide range of items obtained by bulk purchase - this facility includes bulbs, various plants, tools, seeds and fertilisers.

No regular meetings are held at the present time.

The Annual Subscription is 25p. Additional members are always welcome. Helpers to distribute both information and purchases are required in most divisions. We would also appreciate anyone wishing to help extend our range of activities.



**Contacts:** Elaine Beard, Social Club, Ex 4058; John Tonkin, Main Factory, Ex 3070; Carol Thomas, ISD, Ex 3801; Derek Moore, GSD, Ex 3304; Jim Beaney, ADD, Ex 3790; Roy Woolston, Flying School, Ex 3974; Alan Morgan-Brown, SESD, Ex 3043.

## Indoor Games League

The aims of the Indoor Games League are to enable GAV employees to compete against one another in a range of indoor sports such as Cards, Darts, Snooker, Pool and Bar Billiards, in the friendly surroundings and atmosphere of the Social Club.

The Indoor Games Section meets in the Autumn and Winter period (approximately between the end of September and the end of April) on Monday and Wednesday evenings.

The following pursuits are carried out:

- Snooker, Pool and (possibly) Bar Billiards – Monday evenings at 8 pm.
- Darts, Cribbage and Euchre – Wednesday evenings at 8 pm.

Both League and Knock-out events are carried out, with trophies awarded for the Winners and Runners-up in each competition. A presentation evening normally takes place around June/July and an Annual General Meeting, open to all members who have participated in the Indoor Games Section, is held prior to the start of the new season.

In previous years, subscriptions of £1 and 50p per competitor have been paid to enter both the League and Knockout events. However for the forthcoming year, subscriptions will probably only have to be paid for Knockout events; this will be decided at this year's AGM.

The Indoor Games Section is constantly looking for new members to take part in its Monday and Wednesday activities, in particular a better response to the Darts league would be welcomed for the 1990/1991 season, as last season only one team registered and the league was abandoned. Registration forms for the new season are likely to be available in September from Divisional Administration Officers or any of the contact persons listed below.

**Contacts:** Dave Pritchard (Chairman), SESD Drawing Office, Ex 4472; Stewart Manewell (Secretary), ADD Publications, Ex 3858; Colin Cremona (Treasurer), FCD Software, Ex 4150.

## Model Railway Club

The Model Railway Section has been in existence since May 1985. We meet on Thursday evenings in our own clubroom in the clubhouse at Hoo.

We are able to offer members the use of our extensive range of tools for their own purposes, these tools cover both woodworking and modelling. Currently, we are engaged in building an exhibition layout in 'N' gauge. This layout, which measures 12' x 3', is currently at the stage where trains can be run.

Last year we attended the Chatham Model Railway Club exhibition with a display of members' work. We take it as a compliment that we have been invited to attend again this year.

We would welcome new members at any time, the current subscription is £12.00 per year. Please feel free to contact the following committee members for any other information you may require.

**Contacts:** Mike Tomkins, CSD, Ex 3398; Mark Snowden, MCD, Ex 4208; Ralph Smyth, CACD, Ex 4296.

## Netball

Netball is a seven-a-side team game played by women. The Section's claim is to enjoy the sport whether we win or lose. It is a way of meeting new friends and keeping fit at the same time.

We meet at the Hoo clubhouse on Wednesday evenings at 6.30 pm during the summer season and there are practice matches on Monday at the same time. There are not always vacancies for new members but anyone interested can come on the Monday and join the team waiting list if they wish.

**Match fee** – £1.00.  
The GAV/BP Netball Team like to have a Charity Match now and again to raise money for a good cause, which is fun to do.

**Contact:** Suzanne Marshall, Canteen, Ex 3270; Jenny Hawker, FCD, Ex 3836.

## Photographic Society

The GAV/BP Photographic Society is a club aimed to cater for all stages of enthusiast from complete beginner to the most experienced. Our programme includes professional lectures on all aspects of photography, demonstrations, practical evenings, competitions within the club and with other clubs in the Medway area, etc.

We meet at the main factory every Wednesday from September to June at 8.00 pm. We also have our own fully equipped darkroom facilities for members' use at any time.

Fees for membership are £10.00 p.a., with reduced rates for senior citizens, husband and wife, and students. Membership is usually around 40 persons, although there are always vacancies for new members.

For further details please contact: Keith Andrews (Secretary), Ex 3950; Ken Billing (Treasurer), Ex 3473.

## Rifle and Pistol Shooting

The Rifle and Pistol Club's aim (no pun intended) is primarily to promote competition target shooting within a congenial yet professional atmosphere on both the indoor and outdoor ranges. Whilst being professional, we cater also for the aspiring beginner with both club rifles and pistols available, after a realistic probationary period.

There are many different forms of target shooting, known as disciplines.

If anyone is interested, they should contact one of the following: John Hillyer, FCD, Ex 4162; Keith Harlow, MCD, Ex 3021. Subscriptions are £15.00 p.a.

Our clubhouse is situated on the airfield near AS&RD, with an indoor range; there is also an outdoor range for full bore pistol and small bore rifle shooting.

Practice is on Tuesdays for pistol, Thursdays for rifle, and Saturdays for both disciplines.

## Soccer

The Soccer Section was formed so that a group of players could formalise a team to play regular club fixtures. The section started in 1986 and entered one team to play in the Rochester and District Football League, Division Six, under the name of GAV Football Club.

After a period when we ran two teams in the League, we now have one team in Division Two.

Training arrangements are currently under review.

Matches are played on Saturday afternoons but the exact time and place is dependent on the fixtures arranged by the league. Home matches are played at the club field at Hoo.

The annual subscription (including league signing-on fee) is £6.00 and there is a match levy of £1.50 per match.

For the latest information and times of training – contact: Harry Ralph, MASD, Ex 3553.

## Squash

The Squash Section has priority use of the two squash courts at the Hoo clubhouse on Thursday evenings between 7.15 and 10.15 pm; sometimes this period is used for home matches.

During this weekly period any club member is welcome to come along and play squash. The standard of the members ranges from beginners to the more dedicated, who play in the section team, in Division 2 of the Kent League.

The yearly subscription fee to join the section is only £3 and new members are always welcome.

The section hopes to fulfil the squash aims of its members. For some the aim is just to turn up on a section night and play anyone else who is there without the trouble of having to make an advance booking and find a partner. Others hope to improve from their current standard. The better players relish the competition!

**Contacts:** Phil Corcoran, ADD, Ex 4289; Brian Harris, ADD, Ex 4295; John Hollands, MASD, Ex 3787; Kevin Moore, FCD, Ex 4157; Joe Mosse, ADD, Ex 3615.

## Sub Aqua Swimming Club

Our aim is to promote and enjoy the sport of SCUBA diving and produce safe, confident and competent divers. We are a member club of the Sub Aqua Association (SAA). Through the section a member can progress from snorkeller to dive supervisor. A number of regionally and nationally organised courses are available for members to enhance their diving capabilities. We have a large number of nationally qualified instructors.

Holidays at home and abroad take place and some club members have dived in Gibraltar, Malta and the Red Sea. Diving takes place most weekends during the season at various sites around the UK, weather permitting. Diving also takes place during the winter, but not as often. Wreck diving is carried out, generally from a hard boat and joint activities are common with other diving clubs. We own a 4 metre rigid hull inflatable with a 25hp Mercury outboard and our own compressor.

Training sessions take place on Wednesday nights at the Social Club swimming pool from 8.15 onwards, sometimes earlier if lectures are taking place. All of the training carried out within the section is above the minimum laid down by the SAA.

Fees are £30 per annum for divers, £5 pa training and £3 pa for third party insurance cover payable to the SAA. A medical examination is necessary before training on compressed air is permitted, the cost of which is generally around £25 depending on the doctor concerned.

A limited number of vacancies for novices are available. There may be delay on entry since a limited number only can be trained at any one time. The minimum age to become a diver is 14 years.

The section fund-raise to improve facilities and maintain equipment and regularly raise money for the RNLI and other charities by organising dances, discos and BAR-B-Os.

**Enquiries to Trevor Harvey, Secretary, GAV, Ex 3613 or Medway 848494; Peter Woolmer, Diving Officer, ADD, Ex 3410 or Medway 864533.**

**AFFILIATED TO M.A.S.A.; S.C.A.S.A.; R.L.S.S.**

The Swimming Section is the largest section based at the Club, and covers activities for all age groups.

**Adult Lessons – Mondays 8.15-9.30 pm.** Teenagers and Senior Citizens, who are either learning to swim or improving their swimming, or learning a new stroke or different skills such as personal survival. We use achievement awards and badges to encourage pupils. **No spectators are admitted to adult lessons.**

**Mother and Baby Lessons – Thursdays 5.15-6.00 pm.** A parent must accompany each child in the water. The age for babies is from 4 months (after they have had their jabs) up to 5 years. As each baby is accompanied by an adult, we restrict our class size to 6 to 8 pupils.

*Our aim is to teach the parent who in turn teaches the baby.*

**Children's Lessons – Tuesdays and Thursdays 6.15-7.30 pm. 6.15-6.45 pm – Beginners.** Age range from 5 to about 12 years of age.

The teaching is done by encouragement and confidence games, with awards and badges, and Splash Galas with medals and certificates.

The lessons are at the shallow end of the pool (3 feet deep).

**6.45-7.30 pm – Lengths.** The children are becoming competent and confident swimmers, learning such skills as diving, personal survival, improving all the 4 main strokes.

**Life Saving/Personal Survival 8.15-9.30 pm.** The lessons are for children and adults who learn such rescue skills as throwing, reaching, basic resuscitation, diving, and swimming with clothes on and removing clothing in the water.

To encourage pupils A.S.A., R.L.S.S., and S.T.A. awards are offered.

Children over 14 and adults are encouraged to achieve the bronze medallion which is the minimum qualification for a pool lifeguard.

**Squad Training – Tuesdays and Thursdays 7.30-9.00 pm; Sundays 2.15-3.45 pm.**

Children are taught and trained to swim competitively in Section Galas – 4 per year, within their respective age groups; against other clubs within the Medway area; and to swim in the Medway A.S.A. age group championships.

*continued overleaf*

The squad has occasional coaching seminars where a swimming coach is hired for the day to give lectures with videos and a training session.

**Children Wanted** - If any club member's child would like to have a trial swim to see if they would like competitive swimming, contact Eric Gilroy.

#### Christmas Gala

This is held in January each year and is open to all Club Members' Children, not just Swimming Section, on a Saturday afternoon and evening.

The Swimming Section organises the Annual Gala and is sponsored by the Management Committee; as well as Gala, Junior Gala and Life Saving Events, there is a Tea Party, Prize-giving, Father Christmas and Disco.

#### Fees

**Annual Subs** - £5.00 per year per family.

**Adult Lessons** - First course of 10 lessons, £5 per course, subsequent courses and improvers, £3 per course of 10 lessons.

**Mother & Baby and Children's Lessons** - £3 per year per child.

**Life Saving** - Adults 50p per week per adult; Children 20p per week per child.

**Squad Training** - 50p per week per child (each child is encouraged to attend all 3 sessions for their 50p).

**Contacts:** Secretary, Dave Jibb, Ex 3907 or Medway 814473.

**All Teaching,** Cyril Moffett, Ex 3250 or Medway 848707.

**Squad Training,** Eric Gilroy, Ex 4441 or Medway 405272.

coaching available for beginners. New players will be most welcome.

**Annual subscription** is £5 per family.  
**Contact:** Graeme Burford (Secretary), Medway 401614. Martin Eyles (Chairman), Shorne 2842.

The club consists of some 23 deep water moorings, and has a clubhouse on Anchor Wharf, within the Chatham Historic Dockyard itself. Winter storage for boats is ashore on the Wharf, with a steam crane being used for the lifting of boats into and out of the water.

Access to the moorings is presently by a slipway, with the possibility of pontoon launching being negotiated.

At present there are not many sailing dinghies, the club being mostly sailing cruisers ranging from 16ft to 30ft, but dinghies are most welcome within the club.

**Current fees** are: Individual Membership - £5.00. Joint Membership - £7.00. Mooring fees, winter storage and cranes are additional.

**Contact:** Paul Barrett (Secretary), MASD, Ex 4443.

## Swimming Pool General Opening Hours

All club members are encouraged to use the pool as follows:

**Sunday, Monday, Wednesday, Friday, Saturday**  
12 noon to 2pm & 4pm to 8pm

## Yacht Club

The GAV/BP Yacht Club is situated on the tidal part of the River Medway in Chatham Reach, which is just down river from Rochester bridge. This provides close access to the Thames Estuary (2 hours sailing), The Swale, and the English Channel (for the more adventurous!).

## Tennis

There are two teams in the Medway Tennis League in the summer. On Tuesdays there is social tennis on the courts at the Clubhouse, commencing at 6.30pm, also with

## Other activities not administered by the Club

### Athletics

The Athletics Club takes part in all forms of team and individual competitions promoted under the rules of the various National and Regional governing bodies of the sport. This includes Track and Field Athletics during the summer, Cross Country during the winter and Road Running throughout the year.

We are permitted to take part in the various aspects of the sport mentioned above due to its affiliation to the Kent, Southern and National Amateur Athletics Associations for men and women. In addition the section is affiliated to the London Business Houses Association which allows entry to inter-company events. Under the constitutions of these organisations the athletics section is encouraged to promote the sport in all areas of society, and as such is an open club that allows youth and non-company members to join and take part in competitions and training.

Our main aims are:

- to provide physical and social activities for all its members via organised training and competition.
- to progress through and hopefully win, League and Cup competitions and hence improve our reputation.

c) to provide individual members the best opportunity of achieving success in all levels of competition.

#### Contact names

**Secretary:** Len Murphy, ADD Progress, Ex 3893.

**Boys' Team Manager:** Chris Bowman, ADD CAD Centre Ex 3146.

**Winter Fixtures:** Mo Jury, ISD Engineering, Ex 4696.

#### MEETING VENUES AND TIMES

Listed are the times and venues arranged for the summer season. Also individual coaches attached to the club arrange extra coaching and training sessions.

**Monday** - The Deangate Stadium, Hoo, Rochester, 6.30 to 9pm (floodlit).

All Track and Field events on a Synthetic track.

**Tuesday and Thursday** - Vinters Boys' School Fields, New Cut Road, Maidstone, 6.30 to 8.30pm.

Outdoor Training on grass track.

**Wednesday** - Group Sessions arranged by individual coaches.

**Saturday** - Senior age group Track and Field competitions, as fixture list.

**Sunday** - Young athletes age groups Track and Field competitions.

**Section Fees** - The following section fees apply for the year January-December 1990: Over 18 - £9 pa; Under 18,

Full time Student - £6 pa; Associate Member - £1 pa.

**Vacancies** - The club is always looking for any additional members to help with training or the social arrangements of the club. There is an urgent requirement in athletics as a whole for officials and the GAV Club is no exception. We would be willing to provide training and arrange an exam if required for anyone interested in this enjoyable administrative side of the sport.

## GEC Avionics Brass Band

The aims of the association are to establish interest and share the enjoyment of Brass Banding and to advance musicianship in order to participate in 'Contest Playing'.

The association meets in the GAV main canteen on Mondays from 7.45 to 10.00 pm.

**Section fee** is 50p per week.

There are vacancies for most sections, on the proviso that you meet the acceptable level of musicianship (approx Grade 5-6) and that we have a spare instrument when required.

Under the Rules of the British Banning Association to enter contests, it is mandatory that the players be formally registered with the band and are not permitted to play for contest purposes, with any other band. A probationary period of a month is accepted prior to the person being required

to register as a player and where necessary transfer or terminate Registration with any other band.

It must be stated quite clearly that we are not a 'practice band' for the use of musicians to 'sit in for a blow' but are serious in our endeavours. To this end we pay for the services of a Musical Director, and have won high places in several contests.

**Contacts:** Eddy Steer, ADD Production, Ex 3093; Martin Polley, ADD Production, Ex 3885; Steve Vellor, ADD Engineering, Ex 3474.

## Judo

Judo is a body contact sport suitable for male and female competitors.

Our aim is to try and instil a sense of confidence, improve stamina, suppleness, balance, and strength. Also to train competitors into champions.

Our meeting place is in the main canteen - Monday nights: 5.30 to 6.30 Juniors (4 to 8 years) Mrs J. White, 4th Dan; 6.30 to 7.30 Juniors (8 to 16 years) Jim Hinchliffe, 2nd Dan. Thursday nights: 6.30 to 7.30 Juniors (8 to 16 years); 7.30 to 8.30 Kata Work; 8.30 to 10.00 Seniors (16 years upwards).

Instructors Mr R. White, 6th Dan; K. Taylor, 2nd Dan.  
**Contact:** Jim Hinchliffe (Secretary), Medway 736323, or 32838 (home).

We are the only Sports Section to retain the old Elliott name. This is due to the fact that we are well known throughout the Judo World as a club who train to a very high standard. And

have a record of one of the highest number of players reaching Black Belt.

## Model Engineering

The Model Engineering Society was formed to promote excellence in model engineering and to help in the interchange of ideas and techniques. The present membership is low but expanding. For the record, three members have exhibited models at the Model Engineer's Exhibition, with one member getting among the awards.

There is a model shop section, meeting monthly.

For further information **contact:** Tony Radley (Hon. Secretary), SEDS Tech. Pubs., Ex 3913.

**Fees** are charged for individual events.

## Pop-mobility

Sessions are popular with all ages (male and female). A general fitness programme is covered with varied exercises - it helps when trying to diet!

**Contacts:** Di Bower (Personnel) Ex 3417; Sue Westrup (GAV Admin.) Ex 4149.

**Meeting Place:** Conference Room 1 on Tuesday evenings. Two Sessions - 7 - 8pm and 8 - 9pm.

**Fees** are £1.00 per session (used to pay instructor - buy records and occasionally new record player).

**Vacancies** - 2nd session only (8 - 9pm) at present.

A qualified instructor takes the weekly sessions.

## Yoga

Yoga is not a competitive sport or a fashionable challenging exercise. It is a way of doing things so that you are in charge, instead of being controlled by a wayward body that subjects you to its whims. It's a way of choosing how far you go, and when to stop. It's a way of getting in touch with yourself, discovering which parts of you are truly alive and which are on their way to stiffening up and feeling dead. It's a way of introducing harmony between the myriad interconnecting parts that go to make up you.

Yoga is suitable for everyone, including beginners. Learn physical postures, breathing techniques, relaxation and meditation. It engenders a feeling of well being.

**Contact:** Valerie Fennell, (Personnel Department), Ex 3222. We meet in the Snack Bar on Tuesdays at 7.30pm.

**Section Fees:** £11.00 - Social Club Members; £12.00 - Non-Social Club Members, per 10 week course.

**Vacancies:** Anyone wishing to try Yoga is welcome to come along for one session. If you feel you would like to join you can then pay the balance, if any, for the course. Should you decide Yoga is not for you, only pay for the one session.

# the goods

tion programmes are  
success of our company.  
s are reached...

... and in **GSD**  
on land

*GSD is playing a major part in a technology area less familiar to us than aviation – that of land vehicles.*

## MLRS on target

*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 in service with the US Army.*



The total vehicle system is programmed for development in Europe under the terms of an agreement between the governments of USA, UK, West Germany, France and Italy. An European lead company was 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.

### Vital Accuracy

The key to the accurate performance of MLRS is a high performance Stabilisation Reference Package/Position Determining System (SRP/PDS), for which GSD was selected as the sole source of manufacture in Europe. The gyroscopes are produced by GSD under licence from Allied-Signal Aerospace in the USA.

The Stabilisation Reference Package is an electrically driven, high performance north-seeking gyrocompass, 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 on to the launcher loader.

### Manufacture

A production line was established within GSD in 1988 that will continue for at least 5 years. Further export sales are confidently expected which could considerably enhance GSD's production programme.

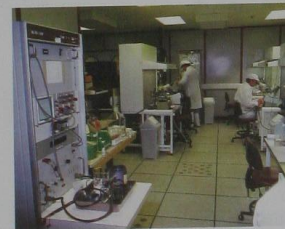
The First Qualification and Pre-production SRP units including gyros were produced in late 1988. These were delivered for integration in the total vehicle system by Aerospatiale of France, who supply the MLRS for UK, France and Italy, and Wegmann & Co of West Germany, for German forces.

### 100th Delivery

GSD started Production unit deliveries in March 1989, with the 100th unit being delivered in May 1990. Aerospatiale and Wegmann rolled out and delivered the first MLRS vehicles in late 1989 and early 1990 respectively, with handover of the vehicles to the UK and German Armies. Ceremonies in Germany and at Woolwich were attended by senior members of GSD.

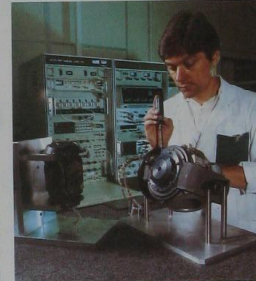
Formal qualification of the total MLRS systems by France and Germany culminated in April this year by successful firing trials.

**GSD are on track!**



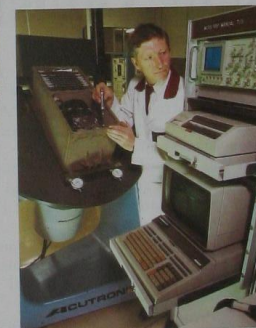
*Above Top: The Vital Parts. Barbara Cooper, Small Part Assemblies Operator, assembling printed circuit boards for MLRS.*

*Above bottom: In the Clean Room. Ian Tyler and Frank Staniforth, Production Technicians, are carrying out the precision manufacture of the high performance gyroscopes for the SRP/PDS.*



*Left: A Steady Hand. Ray Potter, Production Technician, assembling the gyroscopic elements into the SRP/PDS gimbal assembly.*

*Lower left: Almost completed. Derek Snoad, Test Technician, making final adjustments to the SRP/PDS.*



## US Visitor meets Boeing's team in FCD

An important visitor from the USA met some fellow-Americans during a recent visit to GAv.

Ralph Munro, Secretary of State for Washington State in the US, recently visited Britain as a guest of the Foreign and Commonwealth Office. During a tour of companies with business and trade connections with the state he came to Rochester, as we are a major supplier to the aircraft manufacturer Boeing who are in Seattle, Washington. Mr Munro, who has himself worked for Boeing, met senior management and later toured ISD, ADD, and FCD, being introduced to many of our project team members, in engineering and production.

### Fly-by-wire development

In FCD the primary fly-by-wire computer system developed for the Boeing 757 programme was demonstrated. Mr Munro met the Boeing team, pictured below, some of whom are on-site at Rochester for a year helping GAv to develop the next generation of fly-by-wire systems for a projected commercial aircraft. Some of the software work is also being done in CACD and MASD.

Left to right, with Ralph Munro, are the Boeing team Doug Jackson, Bob Yeh, Leonard Miller, Gary Thomason, and Frank McCormick.



## McDonnell Douglas says 'Well done Power Conversion Systems Division!'

At a ceremony in PCSD at Nailsea in April, Al Smith, McDonnell Douglas Missile Systems' Director of Sub-Contracts presented an "Award for Excellence" to the division, which was accepted by Howard Jones, Divisional Manager.

The award was in recognition of the on time on quality delivery of the initial one hundred and fifty Harpoon/Slam power converters, and the Division's 100% Supplier Performance rating.

Attending the presentation ceremony were members of PCSD's design and manufacturing team as well as members of the McDonnell Douglas Harpoon team.

The Harpoon programme represents a double first for PCSD – their first United States contract, and the consequent need to have production staff trained and qualified to perform soldering to the US Navy's stringent specifications.

## AirCanada We're Ready to Set Sail

The GAv crew for the Isle of Wight 24-hour race will be skipped by Kate Twyman of FCD, with Paul Barratt (MASD), Eric Fosbeary (CSD), Ian Dance (CACD), Peter Heritage (GSD) and Alan Fosbeary (CMS). This year's formidable odds in the first heat in June include such opponents as Racal Instrumentation (last year's winners), Aer Lingus, British Aerospace (Space Systems) Ltd., and Honeywell Avionics Ltd., not entirely a coincidence as the organisers have allocated the heats among companies with similar interests to ours. Out of 5 heats of 14 teams, the winners and runners-up of each of 5 heats go forward to the finals in July.

*GAv – better luck this year!*

## The Baysday Factor??

(See Page 9)

"The food inspectors have long suspected that a particular brand of mixed nuts contains too many cheap peanuts and not enough of the more expensive hazelnuts. This is illegal, but before the manufacturers can be prosecuted the food inspectors need to find out how many hazelnuts there are in a 100g sample of mixed nuts.

You need to separate the mixed nuts to find out whether there are less than five hazelnuts in 100g of mixed nuts.

You have to make a nut separator using only these materials: 6 straws; 1 sheet A4 card; 6 sheets A4 paper; 2 paper cups; sellotape.

The hazelnuts and peanuts should be collected in separate paper cups, and once started, your device should run without help from its operator."

**GOOD LUCK!**

# Local pupils enjoy GEC's 'BAYS DAY'



The group setting out for Baysday, with Gerry Arger and Brian Gillon at each end.

A day of education and entertainment, aimed to promote an interest in all areas of science for children at an age when they begin to make claims about their future, was held in London sponsored by GEC. Brian Gillon of Training Department and Gerry Arger, TQM Programme Manager, took a party organised by GAv, consisting of 40 pupils from local schools, accompanied by 6 teachers.

Brian and Gerry take up the story:

"The British Association for Young Scientists, an organisation which promotes science among young people, organised a special BAYS DAY at the Science and Natural History Museums on Saturday 31st March. GAv took this opportunity to promote science and engineering for third formers at Rainham Mark Grammar School, Sir Joseph Williamson's Mathematical School, and the Warren Wood Secondary Schools for Boys and for Girls.

The day was a great success and was thoroughly enjoyed by all who attended. This is evident when you read Gerry Arger's account of his BAYS DAY."

"The sun shone invitingly as we started on our journey to London. For many travelling to Town that morning the objective was to take part in the protest against the Poll Tax but for our party, comprising some forty young people between the ages of 13 and 14, accompanied by six teachers from four local schools, the destination was the Science Museum complex

in Kensington - for Saturday, 31st March was BAYS DAY (British Association Young Scientist Day), sponsored this year by GEC.

After some admin and a meeting sitting on the grass to discuss plans, I and my group of lads from the Maths School decided to select from a huge programme of events, a morning spent in a bio-technology lab, and then a lecture by the famous astronomer Heather Couper - 'The Sky's the Limit'.

The Introductory lecture was, in fact, very interesting and emphasised the point that the term "bio technology" simply describes the way we use plant and animal cells and microbes to produce useful substances, though the thought that bio technology exists in almost every item of food we consume left me in particular with much to ponder on, but these thoughts were interrupted.

## Lab & Lecture

Bio technology? Laboratories and white coats - the coats in small, medium or large in all dimensions, so what does the shorter more mature figure choose? The chosen experiment was to convert lactose (Tesco milk) into the insides of confectionery like *Mars Bars*. Twenty minutes of intense and often hilarious activity produced five beakers of runny grey and totally unappetising yuk, allegedly needing only chemical sweetening and flavouring to complete. Best not to try it, the equipment was unlikely to be sterile!

Heather Couper's lecture was one of the highlights of the day, with a 15 minute queue. She started off by explaining how astronomy has changed over the past few years. How, nowadays, it's not just the visual image which is of interest to the scientist but the whole radiation spectrum and that modern astronomy is far more mathematical and has much to do with composition as well as time and space.

The sensors (telescopes) are situated in high, remote parts of the world. The collected data is transmitted via satellite to more civilised locations for analysis so that the modern astronomer works very much in an office environment. The (at that time) forthcoming launch of the Hubble Telescope gave a perfect opportunity to look at the anticipated explosion of data which that experiment is expected to produce.

## Career thoughts

But nearly half the lecture was given over to talking generally about education and career development. Using her own experiences Ms Couper was able to underline the need to attempt to get a basic education at the highest level to which one is capable. The subject is far less important than the discipline, for by using the basic tools re-education is possible and may indeed be essential in the changing world in which we live. There were lessons there for the young people present and I think there are lessons there for us too.

## Rest of the day

We reformed as a complete group at lunchtime and enjoyed the packed lunch provided by the Canteen, to whom I would like to take this opportunity of extending thanks on behalf of us all. During the lunchtime we were able to compare notes and some of the groups, including Brian's, had gone over to Imperial College to look at and even try the problem solving competition.

The problem is quoted opposite, on Page 8. Have a think about it and see if you can solve it but I must add, please don't ask me how it is done. Better still - offer it to your 13-14 year olds to do at home or school!

Brian and I had dreamt up a competition for our 40 young people. All the answers were to be found in the Museum and it was designed to give participants an introduction to aviation, GEC Avionics and the Medway Area. I think we probably underestimated the very high level of understanding which these young people have, it was a fun competition and we didn't want anyone to take it too seriously. Judging was difficult because of the very high standard but we did manage it - in the end.

Everyone arrived back exhausted after a very tiring but exhilarating day. When I think of all the things I could have done had I stayed at home - shopping, gardening, painting the outside of the house, cleaning the car - I think I had a better day!!!"

# Battle of Britain Fifty years on



1990 is a year which will bring back memories for a great many people in the Medway area, among our employees' families and friends who were living in Kent at the time in 1940 of the Battle of Britain, as well as those who may have been on active service in the RAF. Many commemorative events are taking place nationally and locally, some of which are being supported by GAv as a company.

## Wings Over Kent

One such event is the "Wings over Kent" Exhibition, opened at Dartford Borough Museum as a joint venture with KCC. It is open there until the end of June, and will then go on tour.

GAv is jointly sponsoring the Exhibition with KCC and four local Councils. The display recalls the skill and bravery of "The Few" and tells the story of the Battle through the reminiscences

of ordinary Kentish people. It recreates the atmosphere - the sights, sounds and even smells - of summer 1940. There will be several opportunities of visiting "Wings over Kent" locally; Maidstone Museum during August, Faversham in October, Larkfield and Strood early next year. The Editor has the full programme of visits throughout Kent.

## "Thanks For Your Memories"

The RAF Benevolent Fund is making a special fund-raising effort this year. The 'Reach for the Sky' appeal is aiming for £20 million to support the ever-increasing need for aid to WW2 veterans and their dependants.

There are a number of national and local events and appeals in aid of this Fund,

some of which the company is supporting.

GAv also supports local branches of bodies such as the RAF Association and the Kent WAAF Association.

There is a special 'Battle of Britain Experience' display at the RAF Museum, Hendon which will be worth a visit.

## Spitfire Fly-Past

Medway Aircraft Preservation Society is sponsoring a flypast by a privately-owned Spitfire which will fly over all the RAF bases which were operational in Kent in 1940 - Detling, West Malling, and Gravesend are our nearest.

## Local events

You may wish to put two dates in your diaries:

- 15 September - Commemorative Service in Rochester Cathedral
- 22 September - Remembrance Parade & Service in Maidstone.

## GAv Long Service Awards & Retirements

### 25 Year's Service



Nigel Gunyon, Quality Assurance Engineer in MASD was an apprentice, spending training time in TACD, AS&RD, and FID. By the end of his time he had settled in ADD, and became a TA spending many years in test and calibration, later as Engineer and becoming more involved in QA. In 1987 he moved to MASD.

Nigel has a multitude of interests, including agriculture, politics, opera, classic and sports cars, several country pursuits and travel history.

He received his canteen of cutlery from Divisional Manager Alan Gallagher; here Nigel is with his wife Cheryl. (A)



Dick is seen here with Divisional Manager Ray Dennis who handed over the presentation clock. (A)

Dick Simpson, now Leading Hand Production Technician in FCD, grew up in Leicestershire and then spent 7 years in the Royal Navy followed by a couple of years in a small company before joining the Company as Trainee Wireman in MACD. He transferred to FCD in 1965 and in 1979 was promoted to Leading Hand Wireman.

During his time in FCD Dick has worked on many

projects including Lighting, BAC 1-11, Concorde, Boeing 747 and A320. He is currently involved in all the new projects with which FCD is associated.

Personal interests include English Literature in which he achieved a GCE 'O' level pass a few years ago. This ability, we are told, is reflected in his aptitude for writing verse to record happenings to colleagues!



Tony Kremer, now Section Leader, Calibration in GSD, joined IND as a TA to work on the E5 project, which was an inertial platform intended for civil aircraft. He then spent some time in ADD as Development Engineer on a head-up display project, ILAAS, for Sperry in the USA, which was a forerunner of the A-7 in the American market. Later transferring back to IND, Tony worked on Jaguar

test equipment before moving to Production in his present position.

At home, his many interests include astronomy and geology, and particularly local history on which he has published three booklets in his home village of Yalding.

Tony received his presentation from his Divisional Manager, Bob Ruggles. (A)

### Retirements



Noel and Joan Nash

Noel Nash, Production Manager of Applied Physics Division, has retired after a total of nearly 50 years on the Borehamwood site. Much of this was in the model shops, and in 1979 he became Production Manager in APD

(previously Neutron Division).

A presentation of retirement gifts, books on antiques, was made by his Divisional Manager Dave Harris.



Charlie Evans, another '37-year' man, has been a 'gyro' expert for most of that time. We believe he was the first Tester in the Gyro clean room, and he has lately been leading hand in GSD.

A great many of the friends he has made over the years came to see him receive his retirement present from Assistant Production Manager Fred Rowe. (B)



Connie Winter's 30 years with the company started with 11 years in Fuze Division; since then she has been in IND/GSD as Technical Assistant on a number of

high-precision gyro and engineering projects. Connie's colleagues presented her with garden furniture, encyclopaedias, and a figurine. (A)



Tom Reader has reluctantly, he says, retired after 35 years of service, over 20 of which were in AS&RD; since 1986 he has been Contracts Manager, having moved into Con-

tracts 15 years ago. Tom and his wife Edna settle comfortably into the garden furniture just presented by Don Brown, Commercial Manager.



John and Eileen Tanner

Recently John Tanner completed 29 years with companies at Borehamwood. For the majority of his time he was a Laboratory Technician, lately in APD. His Divisional Manager Dave Harris gave John some DIY tools.



Les Trafford's 37 years started on the shop floor, but in 1971 he went into production control and in 1980 he took up Technical Authorship in ISD. At his farewell presentation, Les very aptly

received a box of paints for his artistic hobby; his wife Patricia came in to see Dave Silsby, Technical Manager, hand it over on behalf of all his friends. (B)

Andrew McKenzie, AS&RD's senior Field Service Engineer at BAe Warton, spent his 30 years with the company after leaving the RAF involved with several aircraft from Lightning to Tornado. Field Service Manager Mike Andrews thanked Andrew for his contribution to our customers and the company. (A)



# Tour of Ireland win

## First International success for ADD's young cycling star

Kim Staff, now in ADD's Buying Department – pictured here after winning her trophy as Best All-rounder in Kent, last year – has now scored her first international win. Over the Easter weekend Kim represented Great Britain with four other riders, in the Tour of Ireland, a five-stage event in Tipperary with 30 riders in all. She achieved First place.

In the first stage of 65 miles, she broke away in front after 20 miles and by the finish was ten minutes in front of the rest of the riders, finishing in 3hrs 10½mins. Gaining maximum points towards the 'Queen of the Mountains' award, and the first of 3 yellow winner's jerseys.

Next morning's 5-mile time trial brought 2nd place, and in the afternoon Kim finished sixth, in the main bunch in a 50-mile flat race.

The Easter Morning stage was a hilly 27-mile circuit with 3 big climbs – Kim was in the first four to finish. Finally in the afternoon's 20-mile circuit in Tipperary she came 3rd in a thrilling sprint finish.

Overall, Kim's big lead in the first stage was never lost and her margin over the whole event worked out at 6 min 17 secs.

She finished up with 3 Trophies, 3 Yellow Jerseys, and 3 bouquets, together with Second place in the



Queen of the Mountains points score – by one point! "And for my next," she says, "Holland, here I come!" And she is still very much in the running for Olympics qualification.

Sadly, in a later ladies' road race meeting in North Wales, Kim had a crash. She would like to thank members of ADD who made a collection for her towards a new machine.

# First Class Starts

## GAv Athletes hit the high spots

The GAv company team set a course record in the London Business Houses Road Relay, hosted by London Transport in April. A GAv team has won the event for the last few years, but with Martin Forder running well under 13 mins and Graeme Saker setting a lap record of 12.34 on the last leg, this was their best ever performance.

Team result – First Place, 52 mins 44 sec, a course record.

Individuals – Martin Forder (CMS) 12.43; Jon Roots (GSD) 13.17; Michael Sheridan (FCD) 14.10; Graeme Saker (AS&RD) 12.34.

## Winning Women

GAv Athletic Club's team made the best possible start at their debut match in the Southern Women's League, Division 4, at Hoo in April. They made a runaway score of 205 points, ahead of Medway AC with 149, in what on paper promised to be one of the harder matches of the season. With this result the club are already looking towards promotion in the League.

The first event set the pace with a win in both strings of the Senior 400m hurdles, and a number of other first

placings in other Senior age group events, some by Intermediates competing with the Seniors. Individuals won Javelin and Discus, second place in Shot Putt, and maximum points in High and Long Jumps.

The Girls section won all four strings of the middle distance races; the younger age groups did well to join their elders in Javelin and Discus wins.

## Second at National Meeting

The Club gained a close Second place in the British Athletics League/Guardian Royal Exchange match at Croydon in May. Among wins by GAV people were Firsts in 800m by Martin Forder and Graeme Saker, and in 1500m by Saker. The 4 x 400m Relay team were second.

## Juniors First at Deangate

GAv Athletics Club won the meeting promoted by them, at which four teams of Boys and Youths from the south-east competed in the National Young Athletes' League.

Individual wins included runners in Youths' 200m, 100m and 400m hurdles, and 3000m. The Boys won in 1500m, 800m and 100m, also Javelin and Long Jump. Both groups won their 4 x 100m Relays.

# Children make a Splash

## Swimming Section News

At the end of March the Swimming Section held a Splash Gala for children having swimming lessons. All of the children did very well and enjoyed themselves. Each competitor received a certificate and the first 3 in each event were presented with medals.

The results were Beginners Heat 1 – 1st Janesh Mistry, 2nd Craig Daly, 3rd Graham Hollman. Beginners Heat 2 – 1st Guy Wilson, 2nd Stuart Hickmot, 3rd William Oson-ton. Widths – 1st Christopher Moore, 2nd Gemma Williams, 3rd Helena Dennison. Girls' lengths – 1st Amanda Walker, 2nd Hayley Elwin, 3rd Sharon Moore. Boys' lengths – 1st Paul Oxenham, 2nd Nicholas Rains, 3rd Steven Durrant.

## Recent Awards

Our congratulations go to squad swimmers Kalli Samuels (aged 10), Ceri Samuels (aged 14), Kirsty Samuels (aged 16), Daniel Gilroy (when aged 9) and Matthew Gilroy (when aged 7), who have all received the ASA Ultimate Swimmer award, which is the highest award that the ASA can present to swimmers of any age. To achieve this they had to pass six individual awards, several at the highest level. The awards that they passed were: ASA National Challenge Gold, ASA 1500m distance, ASA Water Skills Grade 6, ASA Personal Survival Grade 2, ASA Diving Grade 2 and ASA Speed Swimming – Silver.

# “Wanted...”

... committed Squash Players of all standards to swell the ranks of the GAv Squash Squad  
In return we can offer free membership to the GAv SQUASH CLUB, a most pleasurable evening's entertainment and full expenses paid.

Says Kevin Moore

...Well, that's a bit of a fib, we can't offer you full expenses and membership is £3 a year, but we are subsidised and most important, I do have your attention.

The GAv Squash Club I hear you say? Well, we do exist, and in fact, we have been doing very well in the local Squash Leagues, thank you!

Under the captainship of Phil Corcoran, we have now gained promotion for three consecutive seasons and we are currently looking forward to playing South East Division 2 squash next season.

Unfortunately we will not be able to meet our arch rivals Tonbridge this season, they didn't quite make it. Tonbridge have for the past two seasons stood between us and the Division championship before the last game of the season. On each occasion we have won gallantly only to find ourselves runners-up, separated by games against last season, and this year by just one point. A memorable and most exciting end of two well fought seasons.

But that's enough of our past history. What does the future hold?

During the summer season

we are always looking out for talented players to stand in during the holiday periods, so, if you don't give us a shout we won't know you are around will we? This summer season will be our preparation for the start of the Winter leagues which promises to be our toughest season yet, but also, how about a GAv second squad? Well, that's where you come into it. What we would like to see is a squad of committed players, which includes all you budding lady players to represent GAv in the lower leagues, but none of this is attainable without your commitment to get the club off the ground.

Don't forget, it takes two to tango and squash players do it up against the wall... or something like that.

So keep watching this space, I shall return to give you our latest news, but in the meantime, below are the names and numbers of our current team players.

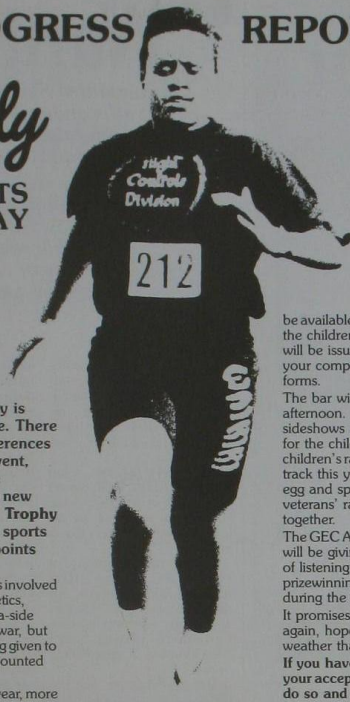
Give us a call so we can arrange a club night as soon as possible.

Phil Corcoran, ADD, Ex 4289; Brian Harris, ADD, Ex 4295; John Hollands, MASD, Ex 3787; Kevin Moore, FCD, Ex 4157; Joe Mosse, ADD, Ex 3615.

## GAv Sports & Social Club News

### PROGRESS REPORT

#### Family Sports Day



Planning for the Family Sports Day to be held at the Sports and Social Club on 15th July is proceeding apace. There will be some differences from the 1989 event, principally in the introduction of a new Inter-Divisional Trophy for which all the sports will have equal points value.

At present, the sports involved are swimming, athletics, netball, bowls, five-a-side football and tug-of-war, but consideration is being given to other sports being counted towards the Trophy.

It is hoped that, this year, more car parking will be available at or near the Club, but it will almost certainly be necessary to issue parking vouchers on a first-come, first-served basis when the parking plans are finalized. There will be a shuttle bus service from Airport Works

for those not able to get a parking voucher.

This year free food will not be supplied, but there will be a number of catering outlets. Free squash, coffee and tea will

be available with ice cream for the children, for which tickets will be issued on the basis of your completed acceptance forms.

The bar will be open all afternoon. There will be sideshows and amusements for the children as well as children's races - on a separate track this year to prevent the egg and spoon and the veterans' races getting mixed together.

The GEC Avionics Brass Band will be giving us the pleasure of listening to their prizewinning performance during the afternoon.

It promises to be a good day again, hopefully with warmer weather than last year.

If you have not yet filled in your acceptance form please do so and pass it to your Admin. Officer. For various reasons, we need to know how many will be attending.

Watch out for further news on the Family Sports Day Posters.

### GAV/BP KENT CLUB

#### Revised Opening Times

with effect from Monday 11 June 1990

Sunday 12 noon - 10.30 pm

Monday, Tuesday, Wednesday, Thursday, Friday, Saturday 12 noon - 11.00 pm

#### Bar Opening Hours

Lunchtime Evening  
Sunday 12.00 - 2.00 pm 7.00 pm - 10.30 pm

Monday, Tuesday, Wednesday, Thursday Closed 6.00 pm - 11.00 pm

Friday 12.00 - 2.30 pm 6.00 pm - 11.00 pm

Saturday 12.00 - 3.00 pm 6.00 pm - 11.00 pm

#### Swimming Pool Open

Sunday, Monday, Wednesday, Friday, Saturday  
12 noon - 2.00 pm and 4.00 pm - 8.00 pm

### VACANCIES FOR SWIMMING TUITION

We now have vacancies for  
Adult Lessons Children's Lessons  
Mother & Baby Lessons

For more information on these courses, Fees, etc, see "Swimming Section" in the GAv/BP Club guide.  
Cyril Moffett, Ex 3250

### Reduced Pool Entry for Children

At the Management Committee meeting on 14 March, the Committee agreed to waive the 50p pool charge in respect of guests' children under 16 years of age. Door levy will still apply.

### Club House Attractions

#### JULY

Saturday 7th  
BARN DANCE  
with  
"JEZREELS"  
7.45 - 11.45

Saturday 28th  
DANCE with  
"CHANNEL FIVE"  
7.45 - 11.45

#### AUGUST

Saturday 18th  
COUNTRY &  
WESTERN  
EVENING  
"JOHNNY YOUNG  
BAND"  
7.45 - 11.45

BANK HOLIDAY  
WEEKEND

Saturday 25th  
DANCE with  
"TANGENT"  
7.45 - 11.45

Monday 27th  
SOCIAL EVENING  
with the  
PETER ELLIGATE  
BAND

### CHESS PROBLEM SOLUTION

#### A QUEEN INTERPOSES

Key 1 Qc7! (threat 2 Qc4 mate)  
1 ... Ksh2 2 Qd4 mate  
1 ... Bxe6+2 Qc4 mate  
1 ... Sany 2 Qg3 mate

Not easy to solve. 1 ... Bxe6+2 Bxe6 mate catches the solver's attention, and other moves by the Black Bishop are seen to be provided with mates 2 Pa7 and 2 Pe7. Only 1 ... Pg3 leaves White without a mating reply. Surprisingly, the only way to mate Black is to play 1 Qc7! ... Bxe6+ is not feared because the Black Bishop is pinned, and the threat 2 Qc4 mate still holds good by interposing on the check line. It takes courage to abandon the mates provided for Black Bishop moves in the initial position.

Photographs taken by the Staff Photographers are acknowledged in the following ways:

(A) Alan Keats  
(B) Ian Douglas

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### GEC Avionics (Rochester) Long Service Association

#### Seventh Annual General Meeting

7.00 pm Friday  
22nd June 1990

In the Lounge Bar  
Main Canteen

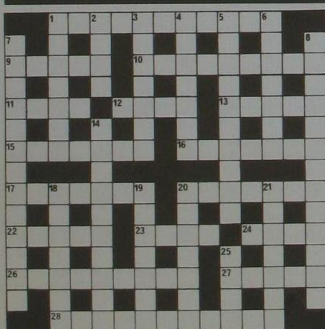
#### Don't forget - members!

Notices, nomination forms for committee elections, and reply forms for the AGM and Strawberry Tea have been made available for all members.

If you haven't send in our AGM acceptance and wish to attend, the form needs to reach Jim Collins by 15th June.

DIARY NOTE:  
BUFFET DANCE  
at the Clubhouse.  
SATURDAY  
15th SEPTEMBER

#### Crossword No. 100 For amusement only



#### ACROSS

- Musical notes, halved. (4-7)
- The goodnight girl. (5)
- Mine host of earlier days. (9)
- Capital of Latvia, when free. (4)
- A type of gull, diver. (4)
- Getting down to the problem. (5)
- Escapade excuse for holiday. (3-4)
- Symbol of regality. (7)
- A Christmas burning desire. (4-3)
- Scientists learn from them, others revel on holiday. (7)
- It takes a lot of strength, and deep breath. (5)
- You have done to get this far. (4)
- A native language, Eastern Bloc style. (4)

- Europe, Asia etc! (9)
- Of great price, cultured. (5)
- The snooker player got it just right. (5-6)

#### DOWN

- The magician's method of operation - or AMD! (7)
- A clear intention, getting together. (4)
- In great haste. (7)
- They cause yearly labour. (7)
- They are always the same, never ageing. (10)
- One who uses fallacious arguments. (7)
- Recording events by ancient humans. (13)
- A view ahead, leading to achievement. (13)
- What we hope for from flaming June. (10)
- He is the one being taught. (7)
- Cloaks, attire in singular. (7)
- A strong race apart, frugal. (7)
- A tree producing close head of shoots, hornless animal. (7)
- A precious stone. (4)

#### SOLUTION TO CROSSWORD No. 99

ACROSS  
1. Daylight robbery; 8. Uptains; 9. Red Sea; 11. Glen; 12. Impersonal; 13. Idaho; 15. Bohemian; 19. Haymaker; 20. Radar; 23. Nightmares; 25. Tree; 27. Thatch; 28. Well done; 29. Collector; 30. Piece.

#### DOWN

1. Drudge; 2. Yesterday; 3. Ivan; 4. Harem; 5. Boerheba; 6. Essen; 7. Yearling; 10. Get on; 14. Heartache; 16. In a groove; 17. Phonetic; 18. Decay; 21. Veneer; 22. Reverse; 24. Grail; 26. Clip.