

NEWS

A message from Ron Howard,

Director and General Manager

The receipt of the first SCADC production contract marks the end of one of the toughest development competitions ever pursued by our Company and reflects great credit on all of the personnel of ISD, our team in the United States, and all other Company divisions and subcontractors who have assisted them.

SCADC is an up-front programme both for us and the USA.

It is the first prime equipment contract we have had direct from the United States Government, the first joint standardisation programme to come to fruition with the USAF and USN and the first time we have had to fight for our production contract in a "fly-off" programme.

I believe it is a unique achievement for any Company in the UK to win 100% of a production award in these circumstances.

In future there will be very few United States military aircraft which will not carry avionics equipment manufactured in Rochester, Kent, England.

ISD SCOOPS SCADC PRODUCTION

SCADC
Standard Central Air Data Computer

\$35 Million Order Placed by US Department of Defense



On Friday June 21, Instrument Systems Division were awarded a \$35 million order for over 1000 Standard Central Air Data Computers to re-equip aircraft of the United States Air Force and Navy. This award is the result of a four year design and development programme, and a very demanding production bidding phase over the last six months, against tough United States competition.

The current contract is only the first of several production awards to be made for this equipment. It was expected that an Air Data contract of this magnitude and significance would have been split between two suppliers, but ISD have been awarded the entire contract.

"Many people have worked long and hard on this programme, both within and outside of the division," said John Colston, Divisional Manager of ISD. "We have succeeded in a long and arduous campaign. It's a success for ISD, it's a success for GEC Avionics and it's a success for UK export achievement. Not only does the contract represent considerable work for ISD and Power Conversion Systems Division at Nailsea; support activities in Atlanta and Test Equipment business for ATED will also result."

Some of the ISD Team with the winning equipment.

(Left to right: John Clover, Gordon Walker, Fred Mackley, Dave Silsbey and Peter Hewlett.)

Duke of Edinburgh supports Gliding Championships

HRH Prince Philip was the presenter of the prizes at the end of the National Gliding Championships held at Lasham in June. The contest, sponsored by GEC Avionics, had been at risk of becoming void because of very poor and variable weather, but on a final day of high wind and heavy rain Prince Philip was able to arrive by helicopter and award Ken Hartley, an RAF engineer, the championship despite non-completion of the day's set course. The favourite and reigning champion Ralph Jones was placed 3rd. GAv also presented the first and second prizes for each day's flying, as well as a Trophy and a Cup which are competed for annually.

GAv's support is in its third year, and this year has been

extended to support the British Gliding Team at the World Gliding Championships, held at Rieti airfield, the Italian gliding centre 40 miles north-east of Rome. The theme is again 'Excellence in Aeronautics', whose success in previous years has prompted this additional backing.

On 9th July the British Gliding Team of four, with their manager and supporting crews, took some of their gliders in their trailers to Buckingham Palace, to be given a send-off by HRH Prince Philip who is Patron of the British Gliding Association. For the competitors this was a fitting start to their overland journey to Italy and the practice flights and the international event with over 100 entrants from 27 countries.



L to R: Roland Thomas, Reggie Spiers, Peter Hearne and HRH Prince Philip.

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



The Royal Aeronautical Society

Medway Branch

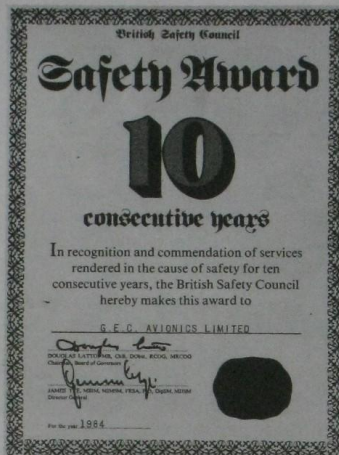
The current 1985/86 programme is as follows:

- 12 Sept '85 "Boeing 757" by Captain Grey, British Airways. (Joint IMechE/RAeS Medway Branch Lecture)
- 16 Oct '85 "Short Sunderlands — The Survivors" by Ron Parsons
- 20 Nov '85 "Women ATA Pilots" by Miss E.L. Curtis
- 11 Dec '85 "Remotely-Piloted Aircraft" by Tom Hamill (FCD)
- 15 Jan '86 "The Airship — History and Future" by Basil Clarke
- 19 Feb '86 "Low Level Night Attack" by J.F. Fisher (GAV)
- 19 March '86 "Flight Simulators" (Joint IEE/RAeS Medway Branch Lecture)
- 18 April '86 "History of Naval Aviation" by Ref Longstaff
- 16 May '86 AGM and Film Show

Enquiries to Ron Twine (ATED) Int. 2534.

Safety Hat-Trick

Yet again, the British Safety Council have recognised ten consecutive years of annual awards with a Certificate—in fact GAV is receiving the nineteenth consecutive award. This year the factors measuring frequency and incidence of accidents are a mere half of last year's already excellent record, and only 332 hours were lost out of 3¼ million worked.



PRESIDENCY FOR KEN

Ken Castle, Section Leader Draughtsman in ATED, has been elected President of TASS for 1985/86. Ken has already held several offices within the union, including the presidency of No. 25 Division, as well as a term as district councillor in Medway.

More next month—in the meantime, congratulations to Ken.

CENTRAL CHARITY FUND

With the Annual General Meeting about to take place (see notice boards) it is felt that everyone would like to know how the funds received are distributed; if you are not a member yet this is a time when you might wish to consider joining, and this would enable the amount and number of donations to local causes to be increased. Remember that the Company effectively doubles your contribution before passing it to the Committee who consider all appeals from local causes.

Here are some donations made in the last few months. Don't miss the opportunity of helping worthy causes—complete the application slip you will find inside this issue of GAV News.

	£
Children's Activities Club for emotionally disturbed children.	25
YMCA Canoe Club, Maidstone to replace deteriorating equipment.	15
Local schools Gilbert and Sullivan Society to help with cost of producing a show.	15
Medway Lions Club towards the cost of replacing the local Red Cross Ambulance.	20
Jodie Woodward Appeal Fund who was shot at her Waldersdale home by a gunman.	20
Rochester Arts Orchestra.	20
British Assoc. for Sporting and Recreational Activities of the Blind to help local blind athlete from Strood.	20
British Red Cross Society, Kent Branch.	69
Ethiopian Famine Relief Fund (Oxfam)	50
St. John's Ambulance Brigade to purchase a radio hand set for use at public functions.	150
Leukaemia Society.	250
United Players, Waldersdale to help put on pantomime for children and pensioners.	10
Air Training Corps, Kent Wing to send two cadets on international exchange.	50
Brook Hospital Scanner Appeal	50
Gillingham Water Activities Centre.	20
Kent Association for Spina Bifida and Hydrocephalus.	50
Canterbury Wheelchair Basketball Club	20
Macmillan Cancer Relief Fund (Tonbridge).	25
Medway Towns Victims Support Scheme.	25
Kent and E. Sussex Schools Opera Festival.	50
Help the Aged—to supply blankets to the elderly—Ethiopian refugees.	50
Kent Schools Easter Netball Tour.	50
Chatham Old People's Welfare Committee towards purchase of ambulance for the housebound and disabled elderly.	50
Warren Wood C.P. School.	50
Electrical & Electronics Industries Benevolent Association (Kent Branch)	100
Nepal Medical Visit (Miss T. Gibbs)	20
Rotary Club of Gillingham (Child Assessment & Care Centre)	25
Thames Canoe Venture (Melvyn Doggett)	50
David Pinder Appeal.	25
The Samaritans (Local Branch)	50

You can see with so many demands on our limited income that we are restricted in what we can do. We thank all our present members and hope that our membership will increase significantly so that we can do more. If you know of any charity or worthy cause, preferably locally, that you feel we should help please let any member of the Committee or the Personnel Department know so that we can assist if it is possible.

Mr Ray Reese has now replaced Mr Paul Rayner as the Management representative on the Committee. At the present time there is no elected representative of the Manual Workers on the Committee. The other members of the Committee are: Mr B.C. Handley, Treasurer, Personnel Department Representative; Mrs P. Turner, APEX Representative; Mr L. Berriman, Foreman's Representative; Mr K. Castle, AUEW-TASS Representative; Mr R. Fudge, Monthly Staff Representative.

John Roberts, Chairman (Personnel Dept.).

MELVYN DOGGETT'S CANOE MARATHON



Melvyn Doggett and Jim Farrow. (Photo courtesy of Chatham Standard)

Melvyn, and his friend Jim Farrow from Strood, completed their trip over the whole length of the Thames and round to the Medway, raising a huge sum by sponsorship, following our account a couple of months ago.

In round figures, totals are listed. Melvyn and GAV News would like to thank all who contributed.

	£
Jim Farrow's customers	76
Capel Canoes	25
Ocean Care Services	30
Nurdin & Peacock	25
Elaine School Teachers	23
Sir Joseph Williamson's Maths School	60
Various Friends	45
GAV Central Charity Fund	50
AS&RD	200
MASD	76
GSD	13
ISD	33
Fourth Floor	12
Clubhouse	3
Accounts Department	17
Pence rounded up	10
Total	£698

This sum is being shared between the Leukaemia Research Fund and the All Saints' Hospital Baby Unit. We hope to publish Melvyn's story of the journey next month.

In and Around Medway — Places to Visit

How well do we know our home towns? For the benefit of graduates and other new trainees and staff joining the company, as well as the rest of us who may not have fully explored their own 'back yard', Geoff Harvey has brought to attention the information reprinted below from a leaflet produced by the Medway Towns Tourism Consortium and printed through the City Council of Rochester upon Medway — to both of whom acknowledgement is given.

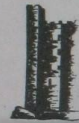
There is a wealth of tourist attractions and places to visit, some of which are only just opening. Of particular interest is the Georgian fortress of Fort Amherst, the best surviving example in the country of such a fortification and one of the ring of half a dozen built round the towns. Now largely restored by the efforts of a Trust and the labour of young people on the government's Youth Training Scheme, the Fort is open to the public.

Geoff, who works in ADD's Design section, is a member of the Fort Amherst and Lines Trust.

Soldiers of the 50th Regiment on guard on Lower Cornwallis Battery, Fort Amherst, Chatham.



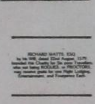
Rochester Cathedral. The second oldest cathedral in England, founded by Justus in 604, the present nave was built by Gundulph in 1080. The Norman choir and transepts were rebuilt in the 13th and 14th centuries. Today the cathedral is the mother church of the Diocese of West Kent. Services are held daily, and visitors are invited to attend Cathedral tours. Pre-booked parties are welcomed. *Phone: Medway (0634) 43366. Cathedral Tours Officer.*



Rochester Castle. The Norman Keep dates from 1127, though parts of the curtain wall are Roman. The round south-eastern tower of the keep is the result of King John's siege of 1215, when the original square tower was undermined. After a further siege in 1264 the castle gradually became redundant and has been a magnificent ruin for many centuries. *Phone: 01-211 8828.*



Guildhall Museum. Situated within the Guildhall which, since 1687 has served as the centre of local government for the City of Rochester, the displays include the ancient charters, regalia and plate of the old local authorities, and fine collections of arms and armour, Victorian, local history and archaeology. *Phone: Medway (0634) 48717.*



Watts Charity. Among bequests made by Mr. Richard Watts, M.P. for Rochester in the reign of Queen Elizabeth I, was one to provide for six poor travellers at his almshouse. They were to receive bed, board and fourpence each. Although this function ceased in 1940, visitors may still see the accommodation given to the travellers, and learn of the Charity's present activities. *Phone: Medway (0634) 42194.*



Charles Dickens Centre, Eastgate House, built in 1590 as a private residence, has, since 1979 housed in its annex special displays depicting the life and times of Charles Dickens. Dickens lived in Chatham as a boy and depicted Rochester in many of his works. *Phone: Medway (0634) 44176.*



Tours of Rochester. Walking tours of the old city are undertaken by the City of Rochester Society, who can arrange for specialist tours to suit specific requirements. Open tours are run daily during August, and on Saturdays from Easter to October, starting from the Tourist Information Centre. *Phone: Medway (0634) 46733 for special arrangements.*



Royal Aeronautical Society. The Aircraft Preservation Group of the RAS (Medway Branch) work on a variety of vintage aircraft at Rochester Airport. Types involved to date include a Spitfire, a Meteor, two Hurricanes and a Sunderland. Visitors are welcome but must observe airport rules. *Phone: Medway (0634) 44400. Mr. Twine.*



Upnor Castle, Upper Upnor. Built in 1569 on the order of Elizabeth I to protect her warship moored in the river alongside the new dockyard at Chatham, Upnor saw action during the Dutch raid of 1667, and has more recently been used as a powder magazine. *Phone: 01-211 8828.*



Temple Manor, Strood. The Manor was built in 1240 by the Knights Templars, an order of celibate soldiers founded to protect the Holy Land. The surviving building was used to house visitors, and has been extensively restored. *Phone: 01-211 8828.*



The Paddle Steamer Preservation Society. A non profit making organisation. The Kingswear Castle is Britain's last coal fired passenger paddle steamer, built in 1924. Regular sailings from Chatham Historic Dockyard and Strood Pier up the River Medway. For details of the sailings phone Medway (0634) 827640.



Strood Pier. The starting point for trips up and down river. The Medway is the reason for Rochester's existence, while Chatham developed to support the dockyard. The Port of Rochester is still very active today. *Phone: Medway (0634) 41824.*



Fort Amherst. Commenced in 1756 as part of defence works to protect the dockyard, it was extended in the 19th century and is today the most complete Georgian fortress in the country. Restoration of the extensive underground works and gun emplacements is the most exciting project of its kind in the South East. *Phone: Medway (0634) 47747.*



Medway Heritage Centre. Housed in the old parish church of St. Mary, Chatham, this display tells the story of the river from Sheerness to the limit of tidal waters at Allington Lock. *Phone: Medway (0634) 407116.*



Brook Pumping Station. Built as part of the Rochester and Chatham main drainage system in 1923, and superseded in 1980. It has two magnificent Campbell oil engines, which are maintained on behalf of the City Council by the Medway Industrial Archaeology Group. The station is being developed as an industrial museum. *Phone: Medway (0634) 409373.*



Royal Engineers Museum. Royal Engineers trace their Medway connection back to Bishop Gundulph of Rochester, builder of the curtain wall of Rochester Castle and King's Engineer to William the Conqueror. The Royal Engineers Museum illustrates the history of early military engineering and describes the evolution and work of the Corps in war and peace. *Phone: Medway 44555 ext. 312.*



Chatham Historic Dockyard. Established in 1547. One of the oldest former Royal Dockyards in Britain. Nelson's flagship, H.M.S. Victory was built in the 'Old Single Dock' and still in evidence are dry docks, covered slipways, offices and Georgian residences. *Phone: Medway (0634) 44697 or 406031.*



Chatham Dockyard Railway. The old dockyard railway system is being restored to operate freight and passenger carrying trains around the historic dockyard using steam and diesel locomotives. Regular open days and steam weekends are arranged throughout the year. *Phone: Medway (0634) 710930 or Gravesend (0474) 61218.*



View from Fort Amherst overlooking the Medway Heritage Centre and the River Medway. (Photos by Geoff Harvey)

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CUSTOMER TRAINING SCHOOL OPENS

At the end of May, Aviation Service and Repair Division introduced their newly extended and refurbished area in Hangar 1 to a number of senior divisional representatives at an informal gathering and buffet. This expansion has been made necessary by the growth of the company's product range and the advance of modern technology, combined with changes in the training requirements of our customers.

The Training School was described by Customer Training Manager Bob Warden as a separate department within ASRD, ensuring that the training is applied and integrated as an essential element of the company's total product support service.

Instruction capabilities and facilities have been

planned to meet a wide range of customer training requirements. The approach adopted allows a high degree of flexibility to cater for expansion or multiple instruction course requirements.

The school occupies an area of some 4000 square feet. There are five main classrooms equipped with modern instructional aids including video and projection facilities. A further classroom is equipped with work station units to allow practical application in computer and associated electronic and instrument practices.

Rest area, refreshments, students' telephone and the usual facilities are provided, and an informal yet thoroughly professional atmosphere is evident.

Bob's team of Senior

Instructors and Instructors have to prepare and present their own courses and in this are guided by product divisions' expertise to back up their own technical qualifications and a continuous programme of up-date in technical advancement and instructional methods is operated. Indeed, the team members' wide range of background helps this along, for example Instructor Terry Osborne was 22 years in the RAF electronics areas, and Andy Nicholson was in ATED for 10 years, while Senior Instructors John Hillyer and Mo Sadeghpoor joined 10 years ago from other companies and Colin Snell, prior to his move 15 years ago, was for a number of years a Development

Engineer in the forerunner of today's ADD. Instructors Alan Ralph, Bernie Arlington, and Colin Carey are all ex-company apprentices. Bob himself is shy about recalling how many other divisions may remember him. Mo was once in the Iranian Air Force and various RAF service backgrounds are frequent.

Statistics are imprecise in this context but an idea of the scope of the School's activity is given by the record of the last 30 months or so—54 courses, for customers in 16 different countries, on 14 separate avionics systems for a total of 300 students, amounting to 246 weeks of continuous training. Class sizes are varied—one



Senior Instructor Colin Snell supervising a group of technician trainees on an RAF course.

instructor who shall be nameless tried to forget his class of one, when the student fell asleep. An instant tactical decision was taken that a coffee break was due. Courses are given at Rochester and at customers'

sites, for example John Hillyer presented a course in Brazil. All in all, ASRD's Customer Training School encounters a variety of experience and activity wider than many far larger Divisions.



The Team of Instructors: (L-R) John Hillyer, Andrew Nicholson, Colin Snell, Terry Osborne, Pat Pilbrow (Receptionist), Gavin Spiers, Mo Sadeghpoor, Alan Ralph, Bernie Arlington, Colin Carey, and Bob Warden (Customer Training Manager).

News from Atlanta, Georgia

Sunday, May 12, was a red letter day for GEC Avionics Inc. Actually, it was a *red, white and blue*-letter day—as those are the colours of the sleek F-16's flown by the U.S. Air Force Thunderbirds. The annual open house and air show at Dobbins Air Force Base in Marietta, Ga., is always an exciting event but it was even more so this year for several fortunate GEC Avionics



employees and their guests. Led by our President, H. D. F. Eagles and Mrs. Eagles, the contingent was allotted VIP treatment which included meeting the pilots and having a close look at the aircraft. From the smiling faces in the accompanying photographs, I think it's obvious that we were all extremely proud to know that the GEC Avionics head-up display is an integral part of the F-16's fantastic capability.

Lynn B. Bates

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Sounds Rural in Kent

Just off the Sevenoaks By-pass (A21) at Great Hollenden Farm, Hildenborough, Kent, Brian Brooks has opened his collection of rare farm animals to the public. Here you can see all manner of cows, goats, sheep, pigs, horses and poultry. Manx Loghtans, Castle Milk Moorit Sheep, Iron Age pigs (actually Tamworth crossed with Wild Boar) and best of all, the rare and elegant silver-grey Eriskay ponies, two of which were rescued from the slaughterhouse at Paisley.

Brian Brooks is a great enthusiast for traditional farm noises—he likes plenty of cackle with his product—as is borne out by the Bantams and American Wild Turkeys. As well as the livestock there is a nature trail through an ancient Wealden Wood, and a garden centre and gift shop where refreshments are available. At the appropriate season there is a wide range of pick-your-own soft fruit.

Opening is daily, 9 a.m. – 6 p.m. from May to end of September.

Further details from Brian Brooks, Great Hollenden Farm, Hildenborough, Kent TN15 0SG. Tel: 0732 832276.

R.I.P.
I.N.D.



GEC Avionics Newsflash

MYSTERY OBJECT RAFFLES BRAINSTORMERS



Mr Simon Hellyer with his find.

Avionics hi-fliers have been grounded, analysts amazed and consultants confounded since GEC workers on a jubilee cleaning binge unearthed a vintage mystery object and its attendant Black Box from a dusty cupboard at the week-end. Graduates were grabbing for dictionaries to find words to describe the scoop. 'Cosmic' was a typical result.

Meanwhile, whizz-kid minder Simon Hellyer, who hopes to restore it in his spare time, once he finds out what it is, is keeping his cool. 'It could be part of our Industrial Heritage,' he bleeped. 'It may have been important to someone once.'

Many suggestions have been volunteered as to its original use. 'I am sure they used them on Sunderlands,' said 88-year-old charge hand Ernie Partinger with a nostalgic sigh. 'Yes, I am sure they lowered them from the hull to detect rocks and the like...'. Other employees were less impressed, however. Said 39-year-old solder queen Allison Armitage, a former Miss Snodhurst Bottom, 'It's obviously some kind of hoax.'

GAv welcomes Chinese Air Chief



Zhang Ting Fa, Commander-in-Chief of the Chinese Air Force, recently made an official visit to the UK at the invitation of the Chief of Air Staff, and beside attending official functions he was shown some of Britain's industrial organisations. For one of these, GEC Avionics was selected, and here our guest is being welcomed to the factory by Jack Pateman.

Visitors from NATO

On 12th June a party of 16 visitors were shown around ADD and MASD as part of a briefing given to them by CQD Manager, Ken Boardman and senior staff. They were Quality Assurance Directors from many countries concerned within NATO with sponsorship and implementation of QA Standards, who came to Rochester under the auspices of MoDIPEJ to see the activities of a typical defence contractor, chosen on this occasion as GAv. The party was led by Cdre. J. P. Loughnan RN, Director of Policy for QA and Chairman of the UK committee within the NATO Group of National Armament Directors for Quality Assurance. Glyn Thomas acted as host, and the company has received a letter of thanks for a 'stimulating and enjoyable' visit.



Chief of Test John White escorts the guests



ADD's QA Manager Alan Dane explains a point.

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SCADC

Standard Central Air Data Computer

ISD SC

The Programme...

The US Air Force and Navy created the SCADC programme to gain substantial life cycle cost benefits. (Life cycle cost is the total lifetime cost of purchase, operating and repair costs up to final disposal of the equipment.) With only four types of computer in their inventory rather than the 20 or so they have currently, great savings in hardware and support costs will result. If these four computers have a high degree of internal commonality, these costs are again reduced by decreasing the size of the spare parts inventory.

As part of an overall drive by the Department of Defense to reduce acquisition costs of military equipment, two identical SCADC pre-production contracts were awarded in September 1981 to two competing contractors from a total of seven bidders. One of these contractors was GEC Avionics, the other was Garrett AIResearch from Los Angeles, California.

Throughout the pre-production contract both companies' products were thoroughly evaluated for compliance to all specification requirements. The relative level of a contractor's performance during the pre-production programme had a significant impact on the production programme award.

The initial production order is for equipping over 30 types and variants of aircraft. These include: General Dynamics and Grumman F-111 "Aardvark" Grumman E-2 "Hawkeye" and A-6 "Intruder" Lockheed C-5A "Galaxy" and C-141 "Starlifter" McDonnell Douglas A-4 "Skyhawk" and F-4 "Phantom" Vought A-7 "Corsair".

Deliveries are scheduled to begin in mid 1986 and involve production rates that peak at over 100 units per month.

The contract award, though significant in its own right, represents only a part of the possible purchase of SCADC equipment. The US Government has further SCADC purchase options which may be taken up over the next few years. These are not simple "buy it or not" options however, the competitive theme of the SCADC contract means that the ISD SCADC must perform well to specification over the coming years if the remaining production orders are to be won.

The People...



The Product...

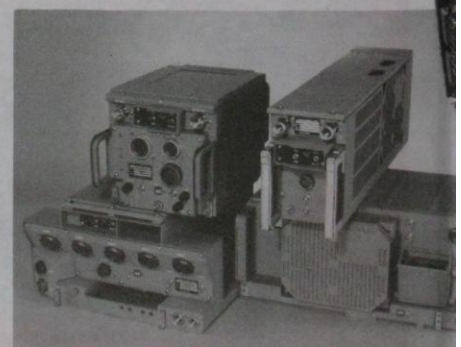
Air data computers play a vital role in modern military aircraft. They provide data on the aircraft's airspeed, altitude, outside air temperature, angle of attack and related parameters. This data is used both by the flight crew in order to fly the aircraft, and by many kinds of on-board system. These systems typically provide automatic flight control, airframe stress limit warnings, navigation, weapon release, ground proximity warnings, engine performance enhancement and many other functions.

The four SCADC types (see picture on right) will equip the United States Air Force and Navy aircraft fleet with a common, modern technology ADC replacing the proliferation of different types of older ADCs currently in use.

The design of the SCADC has been organized to use a set of plug-in electronic modules that provide the basic air data functions required by any aircraft.

This basic air data computer is then customized to fit any application by the addition of two more electronic modules which house the unique circuits required for a specific application. These unique modules also contain the operational software that recognises the aircraft they have been fitted to, and adjust the SCADC functions to exactly reproduce the existing ADC functions. The unusual design and shape of the SCADC chassis is a direct result of the existing ADC as well as its electrical function.

The SCADC incorporates significant Built-In-Test facilities which removes the need for specialized test equipment on the aircraft. The Built-In-Test not only detects SCADC failures, it also pins down the exact location of the failure to the correct plug-in module. These facilities greatly reduce the complexity of maintenance performed on the aircraft thus reducing operating costs.



Superstars '85

The Flight Testing...

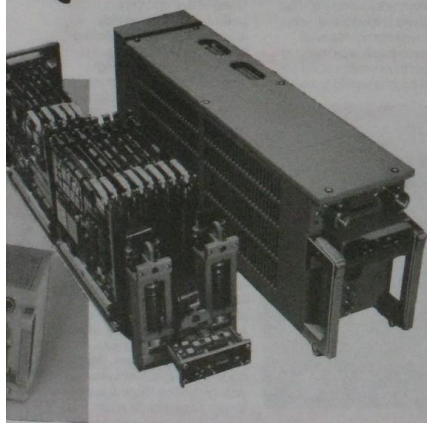
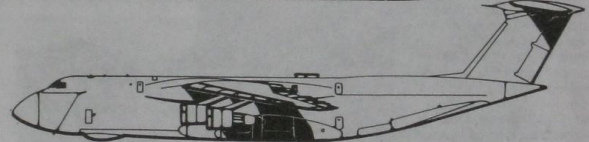
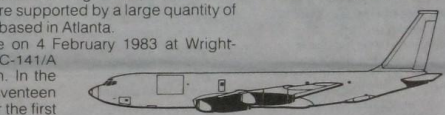
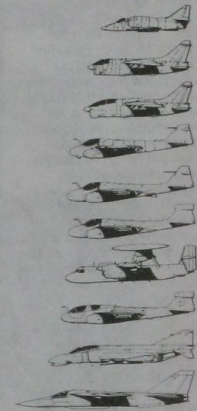
A vital aspect of any new equipment development programme is proving that it actually works. For avionics the acid test is to fit it to an aircraft and fly it. This sounds simple enough in principle, but the practicalities involved in a programme as large as SCADC require an enormous effort in planning and co-ordination.

SCADC was developed to replace the ADCs in various existing aircraft, all of which have been in service for some time. As a result of this they are located at operational bases scattered around the world. In fact over 30 military bases were used across the United States for SCADC ground and flight tests.

Before a test flight can take place at a particular unit, many aspects have to be put together at the right time. These include the SCADC units, the test equipment, spares, manuals, training of USAF and USN personnel, support engineers, appropriate USAF/USN experts, the correct aircraft (serviceable of course) and last, but certainly not least, good weather. Add to these factors the sheer size of the USA where bases are thousands of miles apart, typically 6,000 miles from home, with a seven hour time difference and the task becomes a serious challenge.

To respond to this challenge ISD specially commissioned a support depot in GEC Avionics Inc, Atlanta and a team of over 20 test engineers were assembled from Rochester, Fort Worth, Redmond, Dayton and Atlanta. The pre-production contract required manufacture of 56 SCADCs, 36 of which were earmarked for flight test, the rest for "in-house" testing. These 36 units were supported by a large quantity of spares and eight special test sets all based in Atlanta.

The first SCADC flight took place on 4 February 1983 at Wright-Patterson AFB Ohio on a Lockheed C-141/A "Starlifter", ahead of the competition. In the following twelve month period, seventeen further aircraft variants were flown for the first time. On each occasion the GAV SCADC flew before its American competition. Since that first flight in 1983 over 30,000 operating hours have been gathered in flight test, this is equivalent to flying non-stop for over three years!



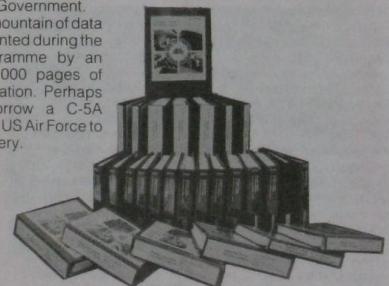
And it's not just Hardware!

The twenty-eight volumes shown here represent the formal competitive submission documents written and submitted by ISD during two 30-day periods to win the development and production contracts. These activities required considerable effort and co-operation between all departments of the division.

This is just the tip of the iceberg, however. During the pre-production contract period of three years, over 616,500 original pages of technical and other programme related data have been produced and submitted to the customer. The production of so much detailed data has required dedicated attention by all departments in order to pro-

ceed through the various stages from researching the basic data to producing a finished document of sufficient quality to submit to the US Government.

This veritable mountain of data is to be supplemented during the production programme by an estimated 1,500,000 pages of additional information. Perhaps we need to borrow a C-5A "Galaxy" from the US Air Force to help us with delivery.



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SUPERSTARS AGAIN — NOW IT'S CMS!

Here we are again, nine months later and another 'CMS Superstars'. Last year's favourite (and this year's) 'Mr. Body Beautiful' Shane has dropped out fearing that the competition might interfere with his body-building programme. He is immediately replaced as favourite by the superb Malcolim (Maggot) Osborn, who looks unbeatable. Malcolm Martin, last year's winner, has not trained for this year's event as his running comes first, and has only been running about 75 miles a week, including up to 20 miles on a Sunday with Maggot.

The first event was the shooting. Could last year's winner, Dick Covington repeat his feat this year without help from Moonie? The answer was no as 'Superdick' trailed in last. Maggot put the arm pad on the wrong arm and wondered why his elbow supporting the rifle was hurting so much. Outside of the competition there were several notable scores, including a 0 from supershot Garry Button and a 51 from 'Bronco Billy' Beaumont, (pity he didn't have the guts to enter the competition). The next event was the Gym Test, held in the canteen, and the competitors were once again accompanied in their efforts by the Brass Band. Richard Ward left the competition at this stage, on one leg, after the press-ups. Tony Porter, who didn't fancy his chances in this event, failed to appear, while this year's clear favourite, Maggot, could only manage a shock second. All the competitors would like to thank Kev Randall for his interference, which caused complete havoc (especially with Cooperman, who got quite punchy). They hope he will take part in this event next year so they can get their own back. A special mention here also for our two Superheavyweights Kelvin and Spank (the company is now rebuilding the canteen floor after their bar jumps!). Moonie paid Maggot the £5 he bet that he would beat Maggot in the Gym Test.

The next event was the cycling which was hampered by having about five people to each bike and was made even worse when Ossie punctured. The idea was that competitors started at two minute intervals with positions being decided on the fastest times for the



Mick Small followed by Moonie and Maggot.

course. However, two minute intervals soon became three, four or five, as competitors waited patiently for a bike to appear. Moonie returned minus his glasses which had evidently fallen off on the way. He then went to retrieve them and came back wearing them with one lens smashed (a definite improvement). Nick Page wishes to thank Nigel Meehan for his excellent 'timing' which helped him win the event. The following morning Maggot had to be restrained from attacking Moonie, and accused him of fixing the cycling. He also threatened to pull out from the competition.



Dick Covington in the lead, with Moonie in full flight about to jump on Nobby.

The next day our band of weary athletes, including Maggot, trooped out to Deangate Ridge for the athletics events. Tony Porter put in an appearance because he thought he could win, and duly produced the goods in the 100 metres, following a disappointing 4th in the shot, however, he left before the steeplechase, muttering some excuse about a football match, and took Kelvin Rayner with him, who judging by his performance in the swimming event would probably have drowned in

the water jump anyway. The 100 metres passed fairly quietly except for Moonie's false starts and Nobby walking the race in an attempt to save his energy for the steeplechase. Moonie also excelled in the shot, walking out the front of the circle on his first attempt, falling over on his second attempt and then letting the shot slip out the back of his hand on the third. He has since decided that this event will be scrapped for next year's competition. The steeplechase resembled the Grand National with runners strewn all over the track and some even going in the wrong direction. Lifeguards were

consisted of the assault course and basketball: Tony Porter was once again noticeable by his absence. Last year's winner and this year's favourite Maggot found two laps of the assault course too much, and asked for the event to be put back to one lap again for next year. Guy Smith, who had missed most of the competition through exams tried to go through the wall instead of over it. To make things more realistic the army opened fire on the rifle range which is situated on



Musical Jumps? The band is offstage but Nick Page leaps around while Dick Covington inspects the performance and Sharon Nash (Marshal) and others look on.

the assault course. Due to the live ammunition our two attractive lady marshals (no I don't mean Nigel), decided not to tackle the assault course, much to the disappointment of Malcolim Martin as he wanted to help them over the wall like last year when he nearly took Sharon's top off. After the assault course we adjourned to the gymnasium for the basketball. 'Who's in charge of this shower?' a voice bellowed, everyone took one look at the massive

PTI, built like a you-know-what, and unanimously volunteered Moonie. "Right Moonie come and talk to Geordie," he roared, and off slunk Moonie. Neil Trigg only had to turn up to win it but neglected to tell anyone else and came fourth, although Moonie reckoned it was because he lost the ball in his mouth. Maggot was demoralised after taking a whole minute to score one basket and it has been decided to allow him to use a step ladder next year (Moonie will supply). And so we arrived at the final evening of the competition which was held at the Hoo Clubhouse. The first event of the evening was the football and nobody was surprised to see Tony Porter turn up as he was a strong favourite to win this event. Everyone was surprised however when he failed to score at least one goal. We would also like to know that he still hasn't paid Brookie the £10 bet that he lost for failing to score at least one goal. Kev Randall

as usual got tackled by the cones and Maggot's only good goal came from a mishit when he tripped and hit the ball with his knee, although he reckoned the cones were too high and he couldn't see the goal. That man for all sports Micky Small suitably attired in Rugby Shirt, Cycling Shorts, Tennis Socks and Football trainers showed everyone the way home. Marshal Sharon Nash was trying to keep the scores secret so that no one would know until

the presentation who had won, but two competitors who shall remain nameless (Malcolim Martin and Cooperman), started getting punchy. The problem was solved when Malcolim Martin attempted to strangle Sharon who threw the score sheet up in the air and walked off in a huff.

Surprisingly the swimming went off peacefully which was a surprise considering the arguments which had gone on earlier in the day over the draw for the heats. The main instigator of this was Neil Trigg who wasn't even taking part. Favourite for this event was Neil Dennis, an ex-schoolboy champion, but he could only manage 10th place. Darren Oxford was second favourite because, the Tool Room reckoned, he looked like a twig. Cooperman won the first heat in 36 seconds and Kev Randall was second in 10 seconds, or so Sharon reckoned. Needless to say she was sacked as time keeper after this and was replaced by Maggot. Kelvin and Nobby decided to get out and walk the second length for fear of drowning. The evening was rounded off with a presentation disco which, thanks to Moonie who had to redeem Malcolim Martin's poor organisation, went off without any hitches. Bob Matthews, world record holder at 800m, 1500m and 5000m for the blind, presented the prizes. No-one could understand Moonie's 'Chatham slang' and he decided not to use the speech that Malcolim Martin had prepared for him as it was bound to be as bad as the rest of his organising. Others, however, thought he was incapable of reading following the eight pints he had downed prior to the presentation (he might not be able to do anything else but he sure can drink!). Maggot complained that the presentation went on too long because Moonie kept kissing Norma (or was she propping him up) and then to top it all Sharon gave his trophy to someone else. This year's favourite Maggot failed to live up to his potential and afterwards admitted that he had peaked at the wrong time in his career. Evidently he might now quit the circuit. Others, however, suggested that he had been killed off in training by Malcolim Martin, which was all part of a clever plan to hold on to his title. Cooperman, the longtime leader, has threatened to save up so that he can afford to win and buy the customary winner's round of drinks. Moonie and Malcolim would like to thank everyone for taking part and for the tankards which were presented to them at the presentation. Hopefully after reading this report they won't want them back. We hope to run this event next year providing Moonie and Maggot are friends again.

Malcolim Martin



Tony Porter losing his bet — Brookie saved them all.

Retirements

Eric May retired on May 30. He served in the Royal Air Force for thirty years, and left holding the rank of Flight Sergeant. During his service life he travelled the world, and witnessed an atomic bomb explosion in Australia—fortunately for us and him, at a safe distance of ten miles.

Eric joined the Company seventeen years ago as an Inspector with AS & RD, being promoted to Quality Surveyor seven years later and acting in that capacity until retirement.

At his own request he was bought an electrical lawn rake by his friends and colleagues, which was presented to him by Bill Letley, Quality Assurance Manager.



Eric May (wearing suit) with friends. (A)

Audrey Gabriel was presented with gifts given by her friends and colleagues on the occasion of her early retirement by Stephen Duxbury, Commercial Manager of Powerplant Systems Division.

Audrey joined PSD in 1980 when she helped with the new Supervisory project for Lucas Aerospace. In 1982 she joined the Cost and Budget Section as Section Leader.

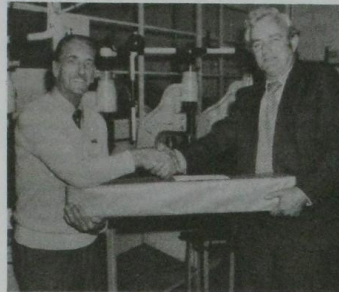
Audrey has decided to retire from work to allow herself more time for her garden and hobby of growing indoor plants.



Audrey Gabriel. (B)

Spot welder **Bob Stephens** retired on May 24 after thirteen years in CMS. As well as previous jobs, includ-

ing Short Bros., Bob has served in the forces and as a special constable—he became Sergeant and was known as Best Bobby. He's also a keen cyclist, organ player, and photographer. We aren't told what was in the long parcel, but Peter Burrows handed it over with the best wishes of all Bob's friends and colleagues in CMS.



Bob Stephens. (B)

Of **Norman Shoe-**

bridge's thirty-four years with the company, fifteen have been with IND/GSD, which he joined at the start of the Jaguar contract. Prior to that Norman was a year with TAC and eighteen years with Sheet Metal Division. He served for many years on the Committee of the Long Service Association prior to the amalgamation with the BP club. Dave Harries presented Norman with gardening equipment on his retiring day, June 11—when that is not in use Norman will enjoy his other hobbies of walking and reading.



Norman Shoebridge. (B)

Friends and colleagues bid farewell to **Mrs Alma Barton** (CACD Cost and Budget) after seventeen years' service with the Company, the Cost section since the amalgamation of MAC/FID to FCD and the consequent split of FCD to CACD. Mrs Barton was presented with a camera to mark her retirement, hoping to keep her amused with the spare time now on her hands. She has two daughters whose children will no doubt supply her with ample subjects for filming.



Alma Barton with friends. (A)

Daphne Hamblett, after an initial two years as assembler and maker of cableforms, was one of the first women to become a Progress Chaser—in 1973—and subsequently she became Expediter in Purchasing Dept. Most of that time was in IND/GSD and Dave Harries, Production Manager, presented Daphne with a TV set. To be looked at when resting from the decorating?



Daphne Hamblett. (A)

Richard (Dick) Philo retired having accumulated fourteen years' service in two spells: nine years in MACD (1962-1971) in Technical Cost, and five years (1980-1985) in Ratefixing as an analyst. He will be kept occupied no doubt by his grandchildren says Colin Whitehead, seen here making Dick's presentation. (B)



APPOINTMENTS

Colleagues in ASRD have sent a message of congratulations and good wishes to **Jim Casey** who has been appointed Manager, Works Services for the whole of GAV, in addition to becoming responsible to Mr Alexander for ASRD. Jim became DM in 1979 having progressed from Service Engineer since he joined the division in 1960.

The congratulations and good wishes include **Mike Barton**, appointed DM reporting to Jim Casey. Mike joined ASRD five years ago as Technical Manager following a distinguished army career.

Peter Burrows is now Manager, Central Manufacturing Services—for the renamed CMS—reporting to General Manager Glyn Thomas.

Pastures New

Jayne Clark who started work in the Accounts Department as a Bought Ledger Clerk in January 1979 was married on June 1 to Geoff Hewitt from Lincoln who is a Sapper in the Royal Engineers. They spent their honeymoon in Yugoslavia. Jane has left the company to move to Tidworth, Hampshire where Geoff will be based. She received many gifts and cards and all her friends wish them every happiness for the future.



25 years' service

Stan Dalton, Section Leader in GSD, first did wiring in IND and in 1963 moved to TACD Model Shop as Technician on 1-11 and Concorde equipment development. Later Stan moved into Planning, by the time TACD and MACD merged the systems were well advanced and eventually he was working on the MRCA project. In 1978 he went to Gyro Division as Section Leader Planning Engineer and has most recently been involved with the Spearfish contract. Stan's leisure interests include golf and other sports, and reading. Divisional Manager Bob Ruggles handed over the presentation tea set.



Stan Dalton with Bob Ruggles. (A)

Sam Baldwin, ex-Dockyard apprentice, again found himself working in submarines so joined the RAF for his National Service. But he was posted to RAF Calchot—to repair boats. After 2 more years at the Dockyard Sam came to Elliotts. Tech Pubs in AS&RD was his first home in the division in which he spent 23 years, followed by jobs as Spares Compiler and a move to QA in 1970 to assist with the introduction of a computerised inventory management system. May 1983 saw his move to EDP where he is now Senior QA Engineer again assisting with systems development. Sam has 3 sons, one of whom works in MASD buying, and has interests in golf (13), badminton, gardening, collecting, and records—any variety.



Sam Baldwin. (B)

As to building on the last 25 years and the future of his job—he's only just started!

Guy Pragassa, born in Mauritius, did his national service in the Army before coming to Rochester, where he was first in Radio and Radar Division. Since 1964 he has gone through the TACD-FCD-CACD succession and has thus been engaged on most of the major military and civil contracts, from VC-10 through Concorde and Harrier to AMX and EAP. In Concorde days Guy was the first shop floor employee to go abroad for the company, to Toulouse in 1967. In his years in the Model Shop Guy has helped build many first-off units for new projects, particularly pilots' control units. Technical Manager Simon Frost gave the division's congratulations together with the canteen of cutlery.



Guy Pragassa with Simon Frost. (A)

GSD Storekeeper **Ron Smith** was once a Fitters' Mate with Shorts—he 'made' portholes for Sunderland Flying boats. He was called up to the Army towards the end of the war and served abroad in the Middle East; after demob he did Storekitting for 11 years with NAAFI.

On joining Elliotts he was storekeeper in Sheet Metal Division and when the division disbanded he moved to IND Stores—raw materials and NCS1 kitting. Off work, Ron has played drums in a trio, at weddings, dances etc. Production Manager Dave Harries presented a wall clock.



Ron Smith with Dave Harries. (B)

Owen Douglass moved to the Medway Towns 25 years ago from his home town Newcastle where he worked as a cinema projectionist.

On joining the Company Owen attended the Wiring School then joined ATED Buying Office for a short spell before taking a position as Electrical Inspector.

In the mid 60s Owen joined Fuse Div for a period of 3 years, then rejoined ATED and became charge-hand on Inspection. His present position is Wiring Schedule Planner.

Owen has been out sick for the last 18 months. His colleagues and friends wish him a speedy recovery.



Owen Douglass receiving his Long Service present. (A)

Len Nash on joining the Company from the dockyard attended the Wiring School, before starting in IND as a wireman for a period of 3 years; he then took his wiring skills to ATE Division Production, where his present position is Wiring Scheduler Planner.

Len's a family man with 3 grown up children, one son and two daughters, his eldest daughter now living in the USA.

His hobbies include astronomy, oil painting, home computers and reading science fiction.



Len Nash with Divisional Manager Arthur Colwell. (A)

Congratulations

Births

Welcome to Ian, son of **Eunice McMillan**, Welfare Officer, born on June 28.

Weddings

Garry Thomson of ISD Logistics and **Karen Irvin** who works at Lloyds were married at All Saints, Murston, Sittingbourne on May 11. Garry is an ex-apprentice from the 1979 intake.

Another ex-apprentice **Mark Goodair** now in ADD Model Shop, and **Susan Hancock**, typist in ADD, are also congratulated on their marriage at St. Albans, Bluebell Hill on May 18.



Susan Hancock and Mark Goodair receiving the Division's congratulations from Technical Manager Bob Eves. (B)

From ATED QA, **John Kyle** and **Anita Allen** received the best wishes of all in ATED for their wedding at City Way Methodist Church on July 20.

The same for **Debbie Gordon** of ATED Library and **Mark Connor** of CAGD Goods Inwards, for the big day at Aylesford church, June 29.

Ruby Wedding

Elsie Bunting, Tea Lady Supervisor for the management on 4th floor, celebrated 40 years of happy marriage on June 23, to **Bob** who retired early this year—he was an Inspector with Fishers.



18th Birthday

Congratulations from the 'Prime' team in ATED to **Denise Wilkinson** who was 18 years old on July 8.

Sports and Social Club round up

Sailing Weekend—Blackwater '85

The annual visit by the GAv (Rochester) sailors to the Marconi Sailing Club on the Blackwater took place on Saturday/Sunday 8-9 June 1985.

The dinghy team was sailing for the Colwyn Stone Challenge Trophy. The Rochester team was Richard and Sharon Stone (Wayfarer), Maurice and Pam Chapman (Enterprise), Mark Chapman (Topper), Alastair MacLaden and Alick Jamieson (Fireball), Meg and Pat Fitzgerald (Condor) and Gordon Belcher (Laser).

The wind was North West, force 2 with occasional lulls and patches of force 3. The course consisted of beats with the tide and very broad reaches and runs against the tide, conditions which favoured the Wayfarer and the Fireball. Richard Stone and Alastair MacLaden took full advantage to chase the Condor round the course; Richard won and Alastair scored well on handicap. Gordon Belcher in the Laser benefited from the gusts to stay close and was well placed on handicap.

The Enterprises suffered through lack of sail area when running against the tide and could not match their handicap. Maurice Chapman sailed fast down wind to split the MSC Enterprises and Mark sailed the Topper well to take third place. Down wind, the Catamarans had to zig zag in a series of broad reaches but could not match their handicap; however, the Fitzgeralds managed to pressurize the faster Dart into rounding a buoy in the wrong direction which led to the Dart retiring.

Overall, Rochester scored well to go into lunch with a healthy lead. After lunch the story changed. MSC decided enough was enough and with good sailing by the Solos and Mirror, they attacked the Rochester lead. With a similar course the Catamarans, Fireball and the Wayfarer led at the windward mark and in a dying wind bore away against the tide. In the lee of Osea Island, progress for the later boats was slow.

On the second lap the wind increased and backed to give some planning on the broad reach. This allowed the plating boats to make up some of their handicap but not enough to prevent Richard Stone winning the race and the trophy. Alastair MacLaden was equal second with Mike Boreham, the Mirror's spinnaker keeping it in contention.

Ron Greygoose and Roger Smith had a private battle in their Solos which spurred both of them to be well placed.

Gordon Belcher was in sixth place whilst the Enterprises suffered by not having sufficient sail power to plane on the last reach.

The Catamaran duel was won by the Fitzgerald's Condor which kept out the Dart.

Mark Chapman had good boat speed but missed a buoy and had to return losing any chance of a high place.

MSC won the second race but Rochester won the individual and the overall team race and so maintained their 100% record in the Colwyn Stone Trophy races.

Joan Stone presented the trophy to Richard to round off another enjoyable day's sailing. Once again the visit had proved very successful with good sailing, good company and good food.

Rochester		Race 1	Race 2	Total
G. Belcher	Laser	2	6	
Mark Chapman	Topper	3	9	
M. Chapman	Enterprise	7	10	
P. Fitzgerald	Condor	11	11	
A. MacLaden	Fireball	5	2	
R. A. Stone	Wayfarer	¾	¾	
DNS		18	18	
		46¼	56¾	103½

MSC		Race 1	Race 2	Total
M. Boreham	Mirror	10	2	
M. Duckmanton	Dart	14	13	
S. Evans	Enterprise	9	8	
R. Greygoose	Solo	4	5	
D. Nikson	Fireball	8	12	
R. Smith	Solo	18	4	
D. Webb	Enterprise	6	7	
		69	51	120

Meanwhile...
Four cruisers had made the passage, having arrived by midday, and were well established in the bar by the time the dinghy races were completed.

The four cruisers that made the trip were—'Night Bird' a Jaguar 27' class skippered by Eric Fosbeary, 'Terrab' another Jaguar 27' skippered by Paul Barrett, 'Marias' a Seamaster Sailer 29' skippered by Doug Maxey, 'Puffdragon' a Snopdragon 26' skippered by Trish West.

Terrab and Night Bird set sail Friday evening, splitting the outward trip in two, by anchoring overnight at Pyefleet in the River Colne, and then sailing down the Blackwater with the flood tide Saturday. Marias and Puffdragon carried the morning ebb tide from the River Medway, catching the tidal gate at the Swin channel at midday.

All boats arrived at Stone safely, and after mooring up, the evening at the Marconi club was spent renewing old friendships and making new ones after splendid refreshments supplied by the galley ladies.

Sunday dawned bright but blustery. With the forecast of SW force 6-7—Gale 8 later, it was decided by the crews to make an early start. The passage back to the Medway tested all boats and crews to the limits, and all praise should be given to first-time sailors Don and Margaret Short, who weathered the storm aboard Terrab. The trip was decidedly tiring and lumpy, the wind being in

such a direction that beating to windward was necessary for the entire homeward trip. Marias bravely battled her way back totally under sail, whereas Night Bird and Terrab motor-sailed. The return journey took 7 hours, and all crews were relieved to get safely back to their moorings!

Next year's trip is being planned already...

Five-a-Side Football

During May MASD held a departmental five-a-side contest. The ten teams that took part competed in one of two groups for a place in the semi-finals; there were several superb games and quite a few upsets. The tournament brought two old pros out of retirement, one being Rod Cole (remembered for his part in the Royal Engineers F.A. Cup triumph). Rod (Tech. Pubs.) unquestionably scored the goal of the tournament, a right-foot thunderbolt against the Estimators that gave Bob 'The Cat' Telford absolutely no chance of stopping.

The other old pro lured out of retirement was Mick Paterson who was almost single-handedly responsible for Contracts' surprising success.

The Planners reached the final by beating the much fancied Analysts 1-0. The other semi was won by AQS903 who beat 903 Software.

The final was a close-contested match, the Planners on the day had the edge and won by 2 goals (Tim Baldwin, Julian Watts) to 1 (Gary Cordier). Mention must be made of Paul 'Kipper' Carey (of GSD) who refereed all the matches and did a superb job.

The trophies were presented to the finalists by Laurie Hampson (Divisional Manager) and the Sportsmanship Trophy was shared between Nigel Turner (Tech. Pubs.) and Harry Stewart (AQS903).

Group 1 Placings		Group 2 Placings	
Played	Points	Played	Points
AQS903	4 6	Analysts	4 8
Planners	4 6	903 Software	4 5
Tech Pubs.	4 3	901 SDT	4 3
Estimators	4 3	Contracts	4 2
TestEng	4 2	Systems Test	4 1

Thanks to all who organized and took part—Gary Turner.



Winners MASD Planners: (L-R) Mick Kemp, Nigel Hunt (Capt.), Paul Willmott, Tim Baldwin and Julian Watts.



Runners-up AQS 903 Team: (L-R) Mick Richardson-Smith, Gary Cordier, Dave Ross, Adrian White, Alan Thurgood and Harry Stewart.



Mrs. Claire Cole, Laurie Hampson, Gary Turner (Organiser) and Adrian White.

'REAPER' Club (formerly '65 Club)

The club continues to grow in numbers, as more of those who retire are joining. Our aim is to make it 100% of all who retire to come and join in, irrespective of status.

The entertainment for May broke new ground, as the Gillingham Operatic and Dramatic Society came for the first time, and provided a varied and entertaining programme, of fine quality and good quantity. This was greatly appreciated by all present, as demonstrated by the rapturous applause.

This was a fitting prelude to the first of 1985 Outings, when 150 members travelled to Worthing and Bramber. After the unsettled weather, it was a welcome change to greet the sun, and enjoy the beach at Worthing, until after lunch. The afternoon saw the party boarding the coaches for the journey to Bramber, where the party visited the "House of Pipes"—a museum of great contrasts and a very wide spectrum of exhibits from all over the world, and going back some 3000 years in time. The day finally ended by all taking tea—a meal including cream and strawberries!

The June meeting collected the names of those wishing to join in the outing on July 24th to the Thames Barrier and "Little Venice" (Regents Park Canal).

Our old friend the Reverend Arthur Heathcote (Vicar of Aylesford) brought his church choir, and friends to entertain us. A very long and varied programme was provided, consisting of Songs, Sea-Shanties, excerpts from Musical Shows, and sacred songs with Negro Spirituals. Their performance was highly professional, with some members "acting" the words of the items. As this was much appreciated, with a promised return in the future.

At each meeting, greetings were extended to all those who had birthdays or wedding anniversaries during each month.

Nailsea Nippets

Marconi Sports F.C., Season 1984-85

After a disappointing 1983-84, Marconi Sports FC. joined Division 5 of the Weston and District League and enjoyed better fortunes. The first seven league games were all won and the team eventually ended as runners up with a record of Played 24, Won 14, Drawn 6, Lost 4. Goals for 81, Goals against 34, Points 34. The two games against the eventual winners St. Johns OB were both hard fought games ending in 1-1 draws.

The side also reached the Keyes Cup Final against St. Johns OB. Marconi took the lead with an own goal but St. Johns quickly equalised. The game was hard fought like the league games, but two quick goals in the second half from Bob Atwood and a fine header from Terry Smith brought victory and the cup to Marconi Sports.

Of the squad of 17 Players, 14 work at Nailsea and next season the renamed team (now GEC Sports) will play in Division 4 and is entering three cups.



Standing (L-R): Andy Cotton (guest player), Ray Wilson, Charlie Hannah, Andy Dyer (guest), Bob Atwood, Steve Rowney, Tim Frampton. Front: Dave Vail, Tony Smith, Steve Townsend (guest & Capt.), Brian Lewis, Alan Summers (guest).

Clevedon Six-a-Side Cricket Tournament, 7 July 1985

GAv Nailsea Sports and Social Club entered a six-a-side cricket team in the Clevedon Garages Tournament for the first time and to everyone's surprise reached the final.

The GAv team of Terry White (Manager), Bob Atwood, Mike Cahill, Gary Clark, Chris Covey, John Allen and Steven Rowney won their first and second round matches off the last ball. In the second round 10 runs were required off the last two balls and Gary Clark hit a six and a four to steer the side through.

The semi final against Clevedon Town FC was won by some fine fielding which restricted the opposition to a mere 21 runs off the 4 overs, which Bob Atwood and Mike Cahill reached in two overs.

The final against Clevedon Garages (the Sponsors) was a different matter. Clevedon Garages hit the highest score of the competition, 52, in their four overs and GAv could only manage 28. Special praise must go to Chris Covey for his fine four past the wicketkeeper's head and his excellent wicketkeeping, to Steve Rowney for his fine throw from the boundary which ran out the best batsman and to Bob Atwood for winning all four toss-ups. Also to Terry White for drinking a barrel on his own and getting sunburnt.

Sports and Social Club round up

GEC Avionics—BP Kent Club 1985 ELECTION

Nomination for Ordinary Member of the Management Committee.

Four Vacant Seats

Candidate's Name _____ (Please print)	
Division _____	Club No. _____
Signature _____	Date _____
Proposer's Signature _____	Club No. _____
Seconders Signature _____	Club No. _____

This Nomination Paper is issued subject to Clause 5(a)(iv) of the Constitution and Rule 3. Nomination Papers must reach the Club Secretary by 21 October 1985.

ISD Indoor Bowls League

It has been another successful season with newcomers 'SCAD' starting as raw beginners and ending as seasoned campaigners. The standard of play within the league is improving and it is hoped some players may continue to play outdoors in the Summer League Season.



Winners this year were 'Shop Floor Production' who although undefeated, were twice pushed to a draw by teams from 'The Management' and 'SMS Engineers'. It is unfortunate that some teams do suffer from players being away on Company business.

The cup was presented by John Colston (Divisional Manager) to winning Captain Joe Southworth and team members John Foster and Barry Fricker.

The league will be running again next season starting in October. Anyone in ISD can participate in the league. Interested?—contact Jim Carter on Internal 2919.

Calling all Climbers —Novices too!

The GavBP Club Climbing Section reminds us that they cater for all aspects of climbing, with weekly visits to local rocks and regular trips further afield.

Anyone interested or wishing to join—novices or experts—should contact Rob James (Club Secretary) at FARL, New Road, Medway 44433 Ext. 68.

Ballroom Dancing Section

Ballroom/Latin American dancing lessons will start again on 12 September 1985, 8.00–10.15 pm. 50p per lesson—all welcome. AGM—3 October 1985

CLUB-HOUSE ATTRACTIONS

BAR LOUNGE ENTERTAINMENT
with
CHRIS and MICK ON GUITARS
Saturday 10 August
8.00 – 11.00 p.m.

Saturday 17 August
DANCE with 'CHOICE'

August Bank Holiday Weekend
Friday 23 August
RUGBY CLUB FANCY DRESS DISCO
with
'FANTASY ROAD SHOW'
8.00 p.m. – Midnight
Fancy Dress – £1.50
Plain Clothes – £2.00

Monday 26 August
BALLROOM GATHERING
with
'THE MICRO TRIO'
following
ALL DAY CRICKET
v
WILLOWBROOK
Starting 11.30 a.m.

CHILDREN'S DISCOS
7.00 – 10.00 p.m.
Wednesday 28 August
'BLUE HAZE'
Friday 6 September
'DISCATTACK'

PARLOUR DERBY
Saturday 31 August
8.00 p.m.
Betting Units 20p

Bank Holiday Monday
26 August
POOL OPEN
11.00 a.m. – 1.00 p.m.
& 3.00 – 8.00 p.m.

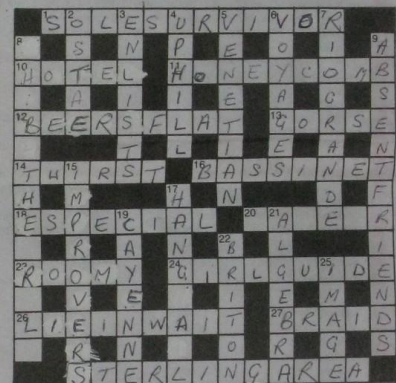
Saturday 24 August
DANCE with 'SPIRAL'

COUNTRY & WESTERN DANCE
with
'HOBBSON'S CHOICE'
Saturday 14 September
7.30 – 11.30 p.m.

DANCE with 'KINGS RANSOM'
Saturday 21 September
7.30 – 11.30 p.m.

DANCE with 'SPIRAL'
Saturday 28 September
7.45 – 11.30 p.m.

Crossword No. 72



ACROSS

- The fish that got away. (4-8)
- A residence for travellers. (5)
- A storehouse for the Bee family. (9)
- A complaint to the barman—tartly. (5-4)
- A yellow-flowered shrub—mostly wild. (5)
- It needs slaking! (6)
- Hooded wicker cradle. (8)
- Something out of the ordinary. (8)
- What all of us need, and work for. (6)
- Plenty of space to swing a cat. (5)
- One of the females celebrating 75 years. (4-5)
- Prepare to ambush. (3-2-4)
- The golden type signifies rank. (5)
- Where the pound reigns. (8-4)

DOWN

- Italian town with oats scattered. (5)
- Listens for a change. (7)
- What it is on way to the top. (6)
- A native of the city of canals. (8)
- Travels by sea. (7)
- Destination in the sea-shanty. (3-6)
- Question to find the right way? (5-3-5)
- Pais not with us. (6-7)
- Little devils making progress. (9)
- Loop by which things are suspended. (8)
- Hot red pepper. (7)
- A branch of mathematics, dealing in symbols. (7)
- One is said will never be a slave. (6)
- It shows a likeness. (5)

(For amusement only)

Solution to Crossword No. 71

ACROSS

- Semi-quavers, 9. Irene, 10. Innkeeper, 11. Riga, 12. Skua, 13. Grips, 15. Get away, 16. Sceptre, 17. Yule-log, 20. Sunspot, 22. Heave, 23. Read, 24. Slav, 26. Continent, 27. Pearl, 28. Right angled.

DOWN

- Sleight, 2. Meet, 3. Quickly, 4. Annals, 5. Evergreens, 6. Sophist, 7. Hieroglyphics, 8. Prospectively, 14. Sweltering, 18. Learner, 19. Garment, 20. Spartan, 21. Pollard, 25. Opal.

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

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