

SCADC MAJOR MILESTONE

Standard Central Air Data Computer

Friday 9th October saw the formal handover to ISD's Customer of the 1000th SCADC unit, after only a year's production.

At a ceremony in the Conference Suite, Colonel Raymond Shulstad, USAF, Deputy Commander for Aeronautical Equipment, Aeronautical Systems Division, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio received the computer from Ron Howard.

Col. Shulstad was acting on behalf of the US Navy as

well as the US Air Force, since the two services between them operate the 38 aircraft types and variants to which SCADC are being fitted. The ISD programme will provide nearly 4000 units, with a contract value for export of some \$135m, against all three of the production orders so far placed for SCADC.

On the previous day Col.

Shulstad had been the guest of the company and ISD, and of ADD, GSD, CACD, PSD and FARL who showed him their activities. And afterwards, Saturday 10th was an Open Day for all employees of ISD to bring their families and friends to see the work which keeps them all so busy.

See Page 8
 for the
 background to this
 major
 achievement

Before the event, Divisional Manager Fred Mackley said –
Not so much a project – more a way of life!

"SCADC is a team game. From the proposal stage in 1981 to the 1000th production unit today, staff at all levels in the Company have been emotionally involved in a programme which has been, and remains, a hard taskmaster. Everything happens faster on SCADC. Failure can turn into success overnight. Small problems turn into major problems just as quickly if ignored. The pace of the programme has demanded changes in attitude from subcontractors and Company staff alike. Regrettably, a few have not been able to make that change, but the vast majority have grown with the programme and produced a record-breaking output of air data computers in the first year of production.

"I cannot mention all the participants for the list is endless, but today I must pay tribute to the US Air Force and Navy team that conceived such a programme, have driven us hard, worked alongside us over the past six years and given us the chance to be part of such an exciting and

rewarding task. Company commitment on this programme has been outstanding, from the personal involvement all through by Ron Howard, to the help given by many other Divisions. Most of our subcontractors have supported us well and SCADC is keeping around 2500 employed in the UK.

"It has been my privilege to lead the SCADC programme from the proposal stage through to full production with the most skilled and enthusiastic team in our business. It will be a hard programme to follow and impossible to forget.

Our thanks to everyone involved."



"A miracle? No, it's teamwork and a good contractor" said Colonel Shulstad. (L-R: The Mayor of Gillingham, Fred Mackley, Col. Shulstad, Ron Howard, and The Mayor of Rochester.)

Visit by 'THE SHARKS' RN Helicopter Display Team

On Monday September 14th, GEC Avionics staff gathered in the Main Car Park to watch a display of flying skills from the Royal Navy Helicopter Display Team, 'The Sharks'.



The Sharks offered to mount this display to thank the Maritime Aircraft Systems Division for their sponsorship during the last year.

Every member of the Team is a qualified and practicing helicopter instructor. Together, they spend all their spare time during the summer months staging flying displays around the country. Before coming to GEC Avionics, their previous engagement had been at Duxbury over the weekend, so we provided a convenient

stopover on their way back to base at RNAS Culdrose. After one day at home, the team flew to the Channel Islands for their final engagement of the season and a well earned, but brief, rest.

Whilst at GEC Avionics, MASD was not the only Division to take advantage of this valuable opportunity to talk to front line pilots. During tours of ADD and GSD the Team were impressed by the latest in night vision goggles (Cats Eyes) and the advanced Moving Map.

LOOKING FORWARD...

As this issue goes to print, important events are happening, which will be fully reported in future editions.

ADD's formal presentation of the Queen's Award for Export by Her Majesty's Lord Lieutenant for the County of Kent takes place on Friday 16 October, followed by the division's Open Day, on the Saturday.

At Basildon on 9 October, Electro-Optical Surveillance Division received their Queen's Award for Technology, which was awarded jointly with Airborne Display Division and RAE Farnborough.

On Wednesday 4 November, ADD's Falcon Building is to be formally opened by the Chief of Defence Procurement, MoD, Mr. Peter Levene.

See your GAv News soon.

SENIOR APPOINTMENTS

Managing Director Ron Howard has just announced some senior appointments in the development of his internal management structure.

John Colston is General Manager, Controls and Instrument Systems Group, and **Robin Sleight** is General Manager, Displays and Guidance Systems Group.

Keith Snelling takes up the post of Divisional Manager, Airborne Display Division and **Simon Frost** succeeds him as Divisional Manager, Combat Aircraft Controls Division.

GEC Avionics News

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 Maurice Sparham, COD (Flying School)
 Phyllis Ellis, CMS

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

Editor's Notice Board

John Walliker, who has just retired (report next issue), asks me to convey his thanks to the many people who contributed to his retirement present. Also to those who took time to attend his farewell evening, and those he was unable to get to see. John's move to Yorkshire has been delayed, but is still much looked forward to.

Found

on Sports Day at Deangate, 11th July
A CAMERA
Please apply to Eileen Papworth,
Social Club Office,
Ext 4058.

**Japan Airlines
Test Equipment Contract**

ATED has won a contract to supply an ORION 4400 series automatic test equipment (ATE) to Japan Airlines. JAL will use the equipment in servicing the important inertial navigation systems (INS) and performance management systems (PMS) which are fitted on its Boeing 747 fleet. This member of the ORION family of ATE can rapidly test the electronic modules of the INS and PMS used on all JAL's 60-strong Boeing 747 fleet.

"ORIONS have now been selected by two major airlines" said Arthur Colwell, Divisional Manager "and we are talking seriously to several others. We believe our flexible design can accommodate the growing desire by world airlines to reduce maintenance costs through a modular approach to avionics repair and test".

The ORION being supplied to JAL is complete with 50 test program sets which will quickly diagnose a fault on any module and rapidly verify it after rectification.

To be cost-effective, the ATE must itself remain serviceable day and night for many years. ORION has an in-built self-test and repair capability so that, if a defect should occur, it can be put right by JAL's own staff with a minimum of "down time".

ATED have so far delivered over 40 ORIONS world-wide, both to support electronics production and for maintenance, including an ORION 4420 in service with British Airways. ORIONS are also used in the maintenance of Lockheed L 1011, BAC 1-11 and Concorde avionics, as well as being the standard production ATE with our avionics for Airbus equipment and a wide range of defence electronics.

The ORION 4400 will be delivered to Japan in December this year, along with adapters for connecting each module type to the ATE, and an initial batch of test programmes. This short delivery time has been made possible by the modular

nature of the ORION itself, enabling it to meet a customer's specific needs,

by drawing on a range of standard sub-assemblies already in production.

**EX-APPRENTICE
WINS
NATIONAL
SCHOLARSHIP**

David Wood is one of two ex-apprentices who were supported by the Company in applying for a Whitworth Scholarship this year. He is now a Student Technologist, studying for the BEng (Hons) in Electrical & Electronic Engineering at Surrey University.

David has been offered a Whitworth Scholarship, one of only ten given nationwide each year. He will be entitled to a cash award for the two remaining years of his

course, and will be able, on successful completion of his degree, to use the additional title 'Whitworth Scholar'.

The Whitworth Scholarship, now administered by the IMechE, is a long-standing award. It is now devoted to the encouragement of young people from a technician-type background going on to degree courses, by the recognition of outstanding success in that progression. Well done!

Parading for Charity



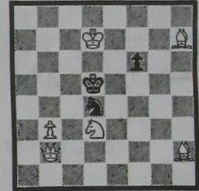
On Saturday 19th July, a vintage car was decorated and Noddy, Big Ears and other story book characters entered the Medway Carnival to raise funds for the Molly Wisdom Hospice. This was organised by Mrs. Linda Atkins, CACD Contracts Department, and the participants were from CACD, ADD and outside GAV. This entry won the first prize.

A total of £380 was collected from sponsors mainly within GAV Rochester and this has been forwarded to the Molly Wisdom Hospice.

As a matter of further interest, seen in the background is the brand new Chatham Old People's Welfare Minibus, just delivered to replace the old one we pictured recently, and which had just paraded in the Carnival. Thanks are due to all who contributed to that cause.

CHESS PROBLEM

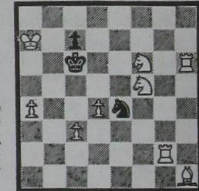
Problem No. 12
White to play
and mate in two moves



**Solution to
Problem No. 11**
ONE OVER THE EIGHT!

- Key: 1 Rh7! Waiting
1... Sx6 2 Rg6 mate (set 2 Rg7 mate)
1... Sd6 2 Se7 mate
1... Sc5 2 Rd5 mate
1... Sxc3 2 Rcd2 mate
1... Sd2 3 Rxd2 mate
1... Sl2 2 Rxd2 mate
1... Sg3 2 Rg3 mate
1... Sg5 2 Rg5 mate

Placed well away from the edge of the board, a Knight can play to a maximum of eight squares. A problemist can arrange for eight different mates after its eight moves - a Black Knight wheel - but a super-problemist can arrange nine mates, as the solution shows!



"In this organization, Challis, middle management uses only blue highlighting markers."

With acknowledgement to The Wall Street Journal

Canadian Forces select our Airborne Computers

Prototype Air Data Computers to upgrade
Northrop F-5 Fighters

GEC Avionics has been selected to supply prototype Air Data Computers for Canadian Forces CF-5A and CF-5D fighter aircraft. Under the terms of a contract awarded by Bristol Aero-

space Limited of Winnipeg, a leading producer of Aerospace products, technology and services, ISD will supply two computers in early 1988 for flight tests. It is expected that production orders will

follow soon after the tests. The new computers will be designed to replace the aircraft's existing analogue equipment with a modern digital equivalent, and will be suitable for all variants of the

Northrop F-5, of which there are many in service around the world.

Air Data computers play a central rôle in modern military aircraft, providing data, related to airspeed and altitude, required for the correct operation of many kinds of on-board systems.

The digital computers represent a great saving in life-cycle cost over existing equipment, combined with increased reliability and easier maintenance.

MASD's Sonic System for the Italians

The first updated Atlantic 1 for the Italian Air Force took off at Colomiers, France on 7th July. This aircraft was updated by Avions Marcel Dassault Breguet and the update includes the AQS 902C from MASD.

The addition of this system, replacing an earlier US equipment, will extend the sonobuoy processing capability of the aircraft.

MASD delivered the first systems on time and the

aircraft now goes into a 5-month test period.

This is the first use of AQS 902 in a fixed wing aircraft. The system was first designed to meet a helicopter requirement but has been considerably expanded in capability since it was first adopted by the Royal Navy in 1980.

An order to refit the remaining Atlantics of the Italian Air Force is confidently expected.

CHIEF OF AIR STAFF VISITS ROCHESTER

On 4th September our Chairman, Sir Michael Beetham, was host to Air Chief Marshal Sir David Craig, GCB, OBE, ADC, MA, FRAeS, RAF, Chief of the Air Staff, and Air Vice-Marshal G. C. Williams, AFC, FRAeS, RAF, Assistant Chief of the Defence Staff

Operational Requirements (Air Systems).

Presentations on the company and its new organisation were made by Ron Howard, and by John Spinks, Ray Reese and David Clews on their respective DGS, CIS, and SCS

Groups and their activities.

During the day our guests visited ADD, ISD, and the Engineering Dark Room in Corsair Building, to see demonstrations of equipment and manufacture in progress.

Distinguished Guest of RAeS



One of the visits was to ADD, where the Colour Map Display and Ridgeline Enhancement aspects of our TFA (Total Terrain Avionics) System were demonstrated. From left to right: John Spinks (Assistant MD); Sir Michael Beetham; a member of RAF Staff; Ron Howard (MD), with Jack Stone (GSD Marketing Executive) explaining the system to the Air Chief Marshal and Air Vice-Marshal. Systems Engineer David Puleston in attendance from the ADD team.

Dr. John Fozard, OBE, FEng, FRS FRAeS has a number of connections with this company and has twice visited Rochester in the last few weeks, accompanied by his wife Gloria.

In July, following an invitation extended to him while he was visiting the GEC Avionics National Gliding Championships at Lasham, Dr. Fozard came to see the aircraft preservation work being undertaken by the Royal Aeronautical Society Medway Branch under the auspices of GAV. He also

visited ISD to see the production of SCADC units, and saw the Sunderland flying boat at the Historic Dockyard.

Dr. Fozard, Past President

of the RAeS, is currently Divisional Director, Special Projects, for the Military Aircraft Division of British Aerospace, and is probably best known in his distinguished 44-year career, as Chief Designer of the Harrier V/STOL aircraft and of the Harrier Sky Hook launch and recovery system for small ships in rough seas.

He is also well known in the UK and USA as a lecturer to learned societies on aerospace matters. It was in this capacity that the RAeS Medway Branch welcomed him to give the 9th Sir Sydney Camm Memorial Lecture, on 23rd September. This lecture included a fascinating account of the creation of the Hurricane in 1934-38

— Sir Sydney was of course the designer of that aircraft, which was made by Hawker (later Hawker Siddeley Aviation) for whom Dr. Fozard worked for nearly 30 years. 1987 is being celebrated as the Hurricane's Jubilee year.

The Memorial Lecture in the Main Canteen was attended by around 250 people, and was followed by a company dinner for the distinguished guests who also included Air Marshal Sir William Richardson, Chief Engineer Royal Air Force, and Group Captain Robbie James, Chairman of the RAF Historic Aircraft Committee. Principal hosts were Jack Pateman and Peter Hearne (President of Medway Branch RAeS).

Medway Mustangs American Football



Anyone interested in
trying out for the Team?

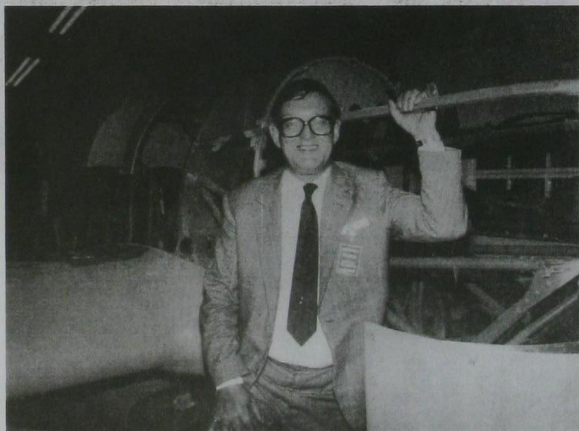
The Mustangs are an established Budweiser League Division I team representing the Medway area since 1985.

This year's team will be coached by U.S. Air Force Captain Timothy O'Brien, Officer-in-Charge of the resident Air Force Office at GEC Avionics, Rochester.

Practices are held each Thursday evening November through June, 8.00-10.00 pm under the

lights at Strood Sports Centre's astro turf pitch. Unless a "friendly" game is scheduled, each Sunday (November - March) from 10.00 am to 12.30 pm is reserved for an additional practice session. A ten game league season starts in April.

For more information contact Captain O'Brien at (0634) 812464, Steve Green (0634) 573483, Tony Ryan (0634) 371054 or Chris Arundel (0742) 849152.



Dr. John Fozard is seen here visiting the Hurricane in the RAeS Preservation Group workshop on Rochester airfield.

www.rochesteravionicarchives.co.uk

GAv Teams with Rockwell on Laser Navigation for NATO ships

Guidance Systems Division has teamed with the Autonetics Marine Systems Division of Rockwell International Corporation, Anaheim, California, to offer a ring laser gyro-based navigation system (RLGN) for NATO ships and submarines.

The RLGN is the GEC/Rockwell candidate for the NATO Ships Inertial Navigation Systems (SINS) Programme, in which the participants are Canada, the Netherlands, Spain and the United Kingdom.

The RLGN is based on a Rockwell system which has already been proven seaworthy and has demonstrated outstanding reliability and accuracy. The system contains an advanced inertial measurement unit which employs Rockwell's G16B precision laser gyros and a single 3-axis electromagnetic accelerometer. The highly reliable G16B gyros are silent in operation and provide advantages in performance and shock

resistance over conventional rotating-mass gyros.

The system, which fully meets NATO specifications, includes a Control and Display Unit customised by GSD for this application. This Unit provides the interfaces with the operator and ship, and performs the processing necessary to convert spatial motion measurements to precise and continuous output data on ship's position, velocity, attitude and attitude rates.

The RLGN represents the

state of the art in shipborne navigation systems, offering superior reliability and accuracy at a cost competitive with conventional systems currently in use.

Both companies are established suppliers of military inertial equipment to world navies and are combining their considerable experience for the first time on the NATO SINS Programme.

OBITUARIES

George Weller

After a long illness in which he still managed to remain active (he was last on site in July), George died peacefully on Monday 3rd August.

The funeral was at the Medway Crematorium, Robin Hood Lane.

George was born in Strood, attended Rochester Technical School, served in the Wartime Army, in India, and joined Elliott Bros in 1957.

He was well known in the fishing world as an expert on Carp, with articles in the Fishing World Press, and was an enthusiastic brewer and drinker of home made beer, also a keen breeder of birds - linnets, finches, etc. with a large aviary at home. George worked in MACD, AS&RD and ADD and lately for GAV as Company Production Engineer.

He leaves a wife, Ada and two daughters, Sue and Carol. Sue has a daughter Lucy, and Carol lives in the USA where George visited not so long ago.

T.H. Benger (Tom)

It is with deepest regret that we record the death on 16th September 1987 of Mr. T.H. Benger, a member of The Reapers (65 Club).

Tom, to his many friends, joined the Company on 25th June 1962 as Assistant Security Supervisor after serving 30 years in the Kent County Constabulary. He retired on 3rd September 1975 as Security Adviser to enjoy his hobbies of cricket (he was a qualified umpire), bowls and gardening with his wife Grace always at his side.

During his time with the Company he helped many people and was always available with a friendly ear to give advice and assistance to those with a problem.

In my early days as Assistant Safety Officer Tom was a source of information and encouragement and I learnt a great deal from him.

They do not breed "coppers" like Tom Benger anymore.

The sympathy of the Security Staff goes to his widow Grace, son Brian, and daughter Ann who were his whole life.

Harry Staff

Norman (Robbie) Robson

It is with deep regret that we learn that Norman "Robbie" Robson, who was Materials Controller in AS&RD for 18 years, passed away on 29 May. Robbie, an ardent Gills supporter, was suddenly taken ill after the match with Swindon.

He was a popular character within the division and a devoted family man who will be greatly missed by everyone.

JEANETTES'S DANCING!

Seventeen year old Jeanette Cobb has recently been presented with one of the UK's top dancing prizes - the prestigious First President's Award.

Jeanette, who is completing her YTS training in AS&RD Logistics Dept., has been dancing for eight years. In that time she has gained seven badges and some thirty medals (which to the uninitiated take the form of cups and statuettes) in her chosen specialties of Ballroom and Latin American Dancing.

The four President's Awards have only been in existence for just over a year and are second only to the International Grader.

Jeanette's burning ambition is to gain her Second President's Award - this she hopes to do in December. In the meantime she is training for two nights a week and we wish her success. She is also taking driving lessons for two nights each week - lets hope she doesn't get them mixed up!



Jeanette and on the right some of her collection of awards



Old-Time Dancer? c. 1957

Does anyone recognise this budding 'Fred Astaire'? Perhaps AS&RD can help with the clue!



ADD 'A' Team and ADD 'Stores' fought out the final of the ADD Divisional Championship on Thursday 18th September.

At the end of the Bat and Trap season, during which ADD 'A' Team had enjoyed only a modicum of success, due of course to injuries, bad pitches, faulty traps/bats/balls and any other excuse they can think of, but mainly due to Jane (Whirlwind) Wallace's bowling decline and Martin Searte's suicidal batting and nothing to do with the skippers inspired

captaincy 'A' finally showed their true class with a slick 2-1 thrashing of the upstart challengers.

The game was played on the full Grand Prix length pitch at the "Sherwood Oak" in front of a mass of spectators (thanks for coming Mrs. Goodearle).

The first leg was a low scoring load of rubbish, with both teams trying to come to terms with the almost impenetrable darkness. Stores were allowed to run out the winners at 13 for 3 to 12.

The second leg started with a good knock of 17 by Paul Goodearle, the Stores' highest scorer of the night. Pity that the rest could only manage another 2 runs between them! ADD 'A' soon saw this off for the loss of only 5 wickets. Ian (The Leering Codger) making 11 n.o.

So, into the decider, ADD 'A' batting first. Alan Holding and Clive Tilley both slashed out for 2 and 4, Martin did his usual duck, Jane was again bowled for a good 11. But the best performance was by Tony (where did he get that hat?) Giles, his 13

runs laid the foundation for a total of 33 and the Stores were staring defeat in the face.

A couple of quick wickets set in the rot, and even Colin (Two Ton) Tuliet could not raise his game, so that Stores were all out for 9.

The evening closed with the presentation of the "Karen White Memorial Trophy", donated and presented by the young lady herself, who also scored and umpired. Our thanks to her and all who turned up.

ADD

Recording a programme
on video is child's play . . .
. . . and labelling it is torture

Major Causes of Heart Attack, Stress, etc — Sticky Labels for VHS cassettes

Professor Brian Whelp, who heads the Applied Stress department at Milton Keynes University, believes that fixing the labels on cassettes is a major cause of heart attack, for one very simple reason.

"It's the prime example of technology clash."

What is technology clash? "It happens when a primitive technology is used in tandem with a modern method."

Could you give us an example?

"Yes, if you'll just stop asking questions for a moment.

A simple example is in modern cameras, which use the most sophisticated electronic methods to take the picture, but use an old-fashioned strap for carrying.

If the strap breaks, or the fastening snaps, the camera can be ruined, and the photographer will be under sudden stress because his high-tech gadget has been

damaged by an age-old technology failure.

"Luckily, camera straps very rarely break. However, every time you use or buy a video cassette, you have to use the sticky labels. Now this is crazy. They have developed the most sophisticated little box imaginable for recording your favourite film or programme, to keep for ever, yet they haven't developed a way of putting a sticky label on your cassette before you get it. It's as if the cassettes themselves were designed by a genius, and the labels by an idiot."

Professor Whelp lists 10 major basic flaws he sees in the design of video labels.

1. They never quite stick in the space allotted, but always overlap slightly and eventually jam the machine.

2. The edge of the label starts curling back after a while, and eventually jams the machine.

ADULT POPMOBILITY CLASSES

EVERY TUES 7-8PM OR 8-9PM IN
CONFERENCE ROOMS 1-2.

ALL
AGES
WELCOME

HAVE
A NIGHT
AWAY FROM
HIM INDOORS

TOP SESSION

Before
After

FRIENDS
WELCOME

QUALIFIED
LDNY

INSTRUCTOR **NO CLOSED SEASON**

3. If you number your tapes, there are never enough number 1s to peel off, and always too many 7s and 9s.

4. The diagram showing which label goes where on the cassette and cassette holder is completely incomprehensible.

5. The idea of having four separate labels to peel off and stick on the cassette and holder is lunatic. Do we have to write addresses four times on letters? Do we have to dial four times to get a phone call?

6. If you write on the label in pencil, it doesn't show.

7. If you write in pen, you can't re-use it.

8. The labels are so full of advertising for the make of cassette that there is very little room to write anyway.

9. The label-makers give you silly little pictures of children, footballers, film stock and masks of tragedy, as if TV programmes could only be for kids, sport, old movies or plays. As Professor Whelp points out, how could you classify a programme featuring, say, Professor Whelp talking about the major stress factors of VHS cassette labels?

10. No matter what you write on the label, the video always reverts to being an old James Bond movie.

"What this adds up to is the fact that recording a programme is child's play, and labelling it is torture. It should be the other way round.

"What we have here is technology clash at its greatest — every time a person loses their temper as they struggle with video labels, that heart attack is coming nearer.

"It is no coincidence — and I want you to think about this very seriously — it is no coincidence that the British are the heaviest users of video in the world and have the highest rate of heart attack."

But it must be so easy to bring video labels into the twentieth century. Why

hasn't it been done? Why are TV programmes recorded instantly by electronics, and their names recorded with a pencil on four sticky labels that won't stick on properly?

"Between you and me," says Professor Whelp in a whisper, "I sometimes wonder if it isn't a Japanese plot. Do you think it's possible that they are trying to kill us all off? And the only people left alive in 50 years' time will be radio listeners?"

Who knows?
Reprinted by kind permission of the Miles Kington column, "The Independent".

Some Thoughts for Newly-Weds

Eighteen months ago, we reported that one of our engineers, **John Aplin**, was to become a Lay pastor of a local Church, Emmanuel Congregational Church in Walderslade. John now tells us that he passed a major milestone in his pastorate on 8th August when he conducted his first wedding service. But as well as being a notable event for Pastor John (and the happy couple of course!) it was something of a special day for a number of GEC Avionics employees. The bride's mother is Mrs. Muriel Clarke, a typist in GSD Quality Assurance Department, who was for three years Church Secretary at Emmanuel; the organist Mr. Tom Hamill is FCD's Marketing Manager, and Pastor Aplin is otherwise Phoenix Systems Manager in FCD.

In his address to the young couple, Pastor Aplin mentioned four new things that

Christian marriage brought; a new start, a new relationship, a new status, and a new home.

The marriage is a new start, and in a sense nothing will ever be the same again. It starts in prayer, and as Jesus says in the book of Revelation "Behold, I make all things new". Their new relationship will exceed anything they knew before marriage, and whilst it won't always be easy, they will always be able to start again. The pastor reminded them especially of the verse in Ephesians "Do not let the sun go down on your anger".

Their new status, as husband and wife brought with it duties and responsibilities. They had made serious promises to love each other, and stick by each other in the bad times as well as the good. There would certainly be times when they would feel, as Jesus warned in

Luke's Gospel "the old was better!" but if they remembered the promises they had made, then God would give them the strength to keep those promises.

Their new home was a symbol of the new life that they would be building together. Pastor Aplin reminded the parents particularly of the words in Genesis of how "a man leaves his father and mother and cleaves to his wife". It was for the couple themselves to choose their lifestyle, and the sort of home that they would build together.

Finally the Pastor reminded all the congregation that the relationship between God and mankind is often symbolised by the relationship between a husband and wife. As Christians we have a new start when we are born again, giving us a new relationship with God, and a new status

as sons and daughters of God. We also have the promise of a new home in Heaven at the end of this life.

Commenting on the number of Christians within GEC Avionics, Pastor Aplin said, "Wherever I go these days I seem to find Christians who happen to work at GAV, or I find colleagues at work who happen to be Christians. All of us want to show our love to God by the way we behave at work, and by being good neighbours to our colleagues, as well as by the way that we support our own Churches. In the light of recent, well-publicised comments by the local clergy, I am sure many at GAV will be reassured to know of the number of Christians at their workplace, who are happy to fulfil the role of peacemakers through their contribution to the spiritual and material well-being of the nation".

congratulations



Nurse Ann Garner is seen here with Surgery colleagues as she was leaving in August to prepare for her baby due in October. Ann has been with the company for nearly 2 years; her husband works elsewhere but Grandfather (of the baby) is Barry Shallcross of MASD.

And as we go to press, news comes of the birth of a son, six weeks early. (A)

EMPLOYEE BENEFITS!

As a guide and reminder to both newly-joined and longer-serving employees, here is a summary of the benefits and services available to you, and of the people available to help and advise you.



Di Bower is now your Employee Benefits Officer – give her a ring on Ext 3417 if you want to find out more about any of these benefits. Di is already well known to a large number of people in GAV; for the last ten years she has been Confidential Secretary to Bill Alexander. And before that, Di was working in IND, with the Sales Dept and again, she was at Hopewell Drive and in Fuze Division.

MEET RONNIE LEE YOUR PERSONAL BANKER

Ronnie Lee is your Personal Banker at Barclays Bank GEC Avionics Rochester Branch. You will find her on your side of the counter ready to help with any banking problems on which you would like advice or assistance. If you have a query to raise or would like more information on any of the Bank's services you don't have to wait in line to be served.



Hampsfeld House Convalescence, if you need it, for only 7p

AVAILABLE TO ALL EMPLOYEES

GAV employees who contribute just 7p per week, are entitled to use Hampsfeld facilities free of charge for a period of 12 days. The convalescence has to be recommended by a doctor.

The convalescent home at Grange-over-Sands in Cumbria is situated between Morecambe Bay and the Lake District. Formerly the home of Sir George Nelson, it was opened as a convalescence home by English Electric in the late 1940's.

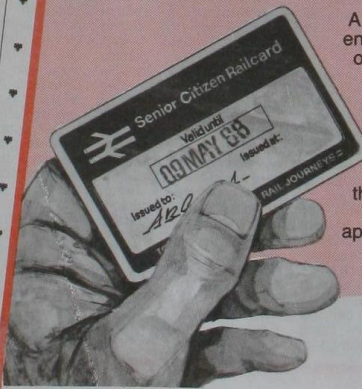
Estate
Hampsfeld is set in a fine estate of thirteen acres with extensive views of Morecambe Bay and lawns, sun terraces and a variety of trees and shrubs. Situated in a valley and close to the sea, Grange-over-Sands stays mild and snow free – even palm trees flourish!
The home has 14 single bedrooms which are available throughout the year, except at Christmas. Patients arrive on Mondays and leave 12 days later on Fridays.
Other facilities include three lounges and a games room. There are colour

televisions, an
Transport
Hampsfeld provides daily transport to Grange-over-Sands, to be picked up by The Matron. EOHNC is responsible for running of the husband and wife and caring at all new arrivals their individual special dietary

See our posters which give you the full picture

IF YOU'RE GETTING OFF TALKING TO BARCLAYS

SENIOR CITIZENS RAILCARD



A £12 voucher enables employees over 60 and retired personnel to a railcard offering substantial savings on rail travel. Please complete the form if you would like to apply for a railcard.

Please send me a Senior Mr/Mrs/Miss

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Address _____

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Division (if working) _____

Signed _____

Send to:
MRS. D. BOWER, Employee Personnel Dept., GAV, Rochester

SPT

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THE GEC PLAN

SELECTED BENEFIT SCHEME

SPT

SPT

BUPACARE

Private health insurance is available at rates giving major savings for individual employees and their families – for example a family covered under the "National Alternative" scheme would pay £17.24 under GEC/BUPA compared with £24.13 privately – this alternative scheme is **only** available through GEC/BUPA. Employees can continue to subscribe and be covered after retirement at the preferential rate.

Cover can be extended under the BUPAtravel scheme for the generally higher costs overseas, with better benefits than many other insurances. It can also be further extended to cover non-medical items such as baggage loss, accident, travel delay or cancellation. Consult Di Bower

Special BUPA schemes for employees of **GEC** with a substantial discount

BUPA Britain feels better for it.

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EXAMPLES

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SAVE
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COSTA DEL SOL
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2 Adults
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The pick of the travel people

se
per week

and even a video recorder.

has its own mini bus daily transport to Grange and patients can arrange to pick up on arrival.

Barbara Haywood, SRN, responsible for the day-to-day running of the ward. She and her colleagues have created a warm atmosphere; they welcome patients and seek to cater for their individual needs, including any special requirements.

quoted from TOPIC

The Halifax Building Society,

the world's No. 1 is here every Thursday between 12.30 pm and 2.00 pm.

Our mortgage counselling service has helped hundreds of GEC Avionics employees purchase their own home. We offer competitive interest rates, favourable terms and a fast and efficient service. Why not drop in and see us? Book an appointment via Di Bower on Extension 3417.

If buying a home is not for you, perhaps we can help you with a relaxing holiday or help you buy a new car, in fact, a loan for a variety of purposes. If you've held an investment account for a year or you have a mortgage with us, then apply for a personal loan. Quotations available on request.

Decided on a holiday, then why not let us take the strain of sorting out your spending money? We offer a fast and efficient travellers cheque and currency service in conjunction with American Express, the world's leading issuer of travellers cheques. Providing you have an investment account, we can sort out the rest. Ask us for details.

No investment account? No problem. Either see us on Thursday or phone Di Bower, Ext 3417. Fill in the form and you can start saving by deductions from your salary. It couldn't be easier.

Expert help and advice is our business. See You Soon?



Rob Brewer - Your Halifax representative

* And don't forget that many local shops, services and traders offer discounts to Social Club members. Enquire at Social Club Office in the Snack Bar (Ext 4058).

CARDS

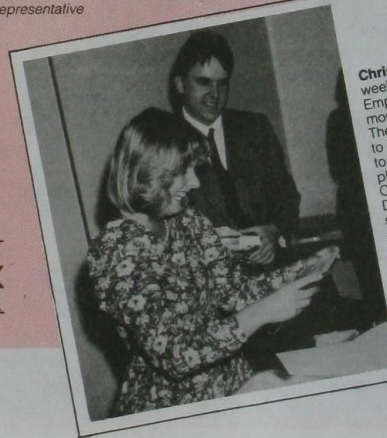
or Citizen Railcard

Initials

Postcode

Dated

Employee Benefits Officer Rochester



Chris Carter, until a few weeks ago looking after Employee Benefits, left last month on Maternity Leave. The card and gifts presented to her by John Ainley seem to have given her great pleasure. Chris has been in Personnel Dept for over 8 years – she started as Confidential Secretary and in 1984 became Personnel Assistant, then E.B.O. at the end of last year. Many friends and colleagues came to wish Chris the best of luck for herself and her baby.

How we make 1000 SCADC a year

The SCADC was developed over a four year period, during which four variants of SCADC were subjected to over 40,000 hours ground and flight testing, on more than 30 variants of aircraft operated by the USAF and USN. In June 1985, GEC Avionics was awarded a production contract for 1165 SCADC, to be delivered by November 1987. This order was followed by two subsequent orders increasing the quantity to 3785 and extending deliveries through to September 1989. Following the on-time presentation of the first units to the USAF/USN in June 1986, the ISD Production team have built up the delivery rate to over 30 units/week and a total now over 1100. Under the leadership of Fred Wickham (centre) the team which has been the key to this achievement is (from left to right) Bob Gee, Production Project Manager, Lawrence Mathias, Assistant Production Manager, Elaine Pullen, Secretary, Peter Robbins, Assistant Production Manager and Paul Robson, Chief Production Engineer.



In order to functionally test this quantity of electronic modules, the Division turned to Automatic Test Equipment Division to provide four 'ORION' Automatic Testers. This equipment, configured to ISD's specific requirements, is now fully operational both within ISD and also at GEC Avionics Inc., Atlanta, where any SCADC which fails in the field is returned for repair during a three year guarantee period.



Steve Dray, Tester in the ORION Room

Although major emphasis was placed on advanced production methods within SCADC, interfaces between SCADC and the remainder of the aircraft had to be identical to those used in designs which in some cases dated back to the 1950s. The skills of wiring, which in many cases are declining due to the advent of flexi-circuits in our equipment, are therefore a key element in the manufacture of the SCADC used in the F-111 aircraft, the interface assembly of which is shown below.



Wireperson Pat Szalay works on the F-111 interface assembly

Testing of the complete SCADC units is accomplished using eight manually-operated Test Stations, one of which is shown (below) testing CPU-142A SCADC for the F-111. Test times for each of the SCADC types vary, but on average each unit receives 12 hours of test on these stations during the manufacturing cycle.



Kris Patel, Tester

Once electrical testing is completed, every computer is then subjected to a 120 hour environmental screening test to remove any minor defect that escapes detection in the normal laboratory conditions. A final visual inspection is carried out on every assembly prior to delivery and these tests and inspections give us the best possible start to an anticipated service life of 15 years, and in the case of CPU-141A over 2000 operating hours in the USAF's transport fleet before any maintenance actions are required.



Les Wilson, Inspector

To build up to the production rates required by the USAF and USN to maximize the benefits of SCADC, major emphasis has been on streamlining the production processes involved. A key element of this has been in the Process Room, where all the SCADC Printed Circuit Boards are assembled and tested, at a rate now well in excess of 1200 boards per month. Even the SCADC program does not fully stretch this facility. The Process Room can now manufacture and test over 2500 cards per month; spare capacity for other projects and more SCADC.



Process Room

The handover to the USAF/USN of the 1000th SCADC on 9th October marks a significant achievement for the program which has affected ISD in all departments over the last six years. During the past two years, ISD's Production Department has expanded from around 100 people to 240, the extra 140 people being recruited over a 12 month period. Expanding facilities, space, equipment and support staff at that rate has been a major challenge to ISD managers.

WELCOME BACK!

The trainees listed below have now finished training and gained their qualifications, joining divisions on their full-time appointments. Congratulations to all.

TRAINEE COMPUTER PROGRAMMERS

Successfully completed HND Computer Studies at Mid-Kent College and engaged as Software Engineers.

Simon Allen	ADD	Philip Carr	MASD
Andrew Atkinson	ADD	David Gwynne	MASD
Philip Blakeburn	ADD	Mark Patmore	MASD
Karin Clarkson	ADD	Paul Smith	MASD
Alun Goodger	ADD	Meryl Thompson	MASD
Roy Hills	ADD	John Truscott	MASD
Martin Hunt	ADD	Derek Watson	MASD
Peter Sandeman	ADD	Roger Wells	MASD
Christopher Bovis	GSD	Steven Coates	CACD
Alison Cheshire	GSD	Adrian Covell	CACD
Samuel Pierson	GSD	Lynda Rogers	CACD
Gary Twocock	GSD	Richard Curzon	FCD
Andrew Brogan	FARL	Clive Nash	FCD
Gary Chapman	FARL	Trevor Rudge	FCD
John Hall	FARL	Mark Seager	FCD
Peter Jones	FARL	Gary Duckworth	PSD
Stephen Buggs	ISD	Trevor Hunt	PSD
David Humphries	ISD	Steven Tyrrell	PSD
David Poulton	ISD	Ian Pestel	ATED
Anthony Royle	ISD		

STUDENT TECHNOLOGISTS

completed their Thick or Thin Sandwich Courses with awards of Degrees, and engaged as shown.

COMPANY SPONSORED

Andrew Ashby	Dev Engr	ADD	BSc(Hons)	Electronic Eng
				University of Kent
Martin Crewe	Dev Engr	ADD	BSc(Hons)	Elec & Elec Eng
				Bath University
Andrew Doorne	Dev Engr	FARL	BSc(Hons)	Elec & Elec Eng
				Brunel University
Paul Evans	Dev Engr	CACD	BSc(Hons)	Avionics
				QMC London
Andrew Fleet	Dev Engr	ISD	BSc(Hons)	Elec & Elec Eng
				Sheffield University
Geoff Henderson	Dev Engr	ADD	BSc(Hons)	Elec & Elec Eng
				Bath University
Trevor Jones	Dev Engr	ADD	BSc(Hons)	Electronic Eng
				Southampton University
John Malthouse	Sys Engr	FARL	BEng(Hons)	Elec & Elec Eng
				South Bank Polytechnic
Wayne Moore	Prod Engr	MASD	BSc(Hons)	Prod Eng & Prod Management
				Loughborough University
Robert Pollard	Dev Engr	ADD	BSc(Hons)	Elec & Elec Eng
				Southampton University
Neil Rattray	Dev Engr	GSD	BSc(Hons)	Elec & Elec Eng
				QMC London
Peter Redding	Dev Engr	ADD	BEng	Elec & Elec Eng
				South Bank Polytechnic
Graham Sanger	Dev Engr	ADD	BSc(Hons)	Mech Eng
				University of Surrey
Ian Shortland	Prod Engr	ADD	BSc(Hons)	Elec & Manuf Eng
				Loughborough University
Robert South	Dev Engr	ADD	BSc(Hons)	Elec & Elec Eng
				Bath University

DIVISIONALLY SPONSORED

Nick Anderson	Dev Engr	ISD	BEng(Hons)	Elec & Elec Eng
				Brighton Polytechnic
Tony Boarer	S'ware Engr	ADD	BSc(Hons)	Maths & Computer Studies
				Southampton University
Peter Hargreaves	Dev Engr	FARL	BSc(Hons)	Elec & Elec Eng
				Sussex University
Ann Lawson	Dev Engr	CACD	BSc(Hons)	Mech Eng
				Leeds University
Carl Lewis	S'ware Engr	CACD	BSc(Hons)	Comp Science
				University of Kent
Richard Nicholas	S'ware Engr	CACD	BSc(Hons)	Comp Science
				Imperial College
Clare Rudman	Sys Engr	GSD	BSc(Hons)	Maths
				Southampton University
Kevin Saxton	Dev Engr	AS&RD	BEng(Hons)	Elec & Elec Eng
				Portsmouth Polytechnic
James Warriner	S'ware Engr	FARL	BSc(Hons)	Comp Science
				Newcastle University
Paul Wrightson	S'ware Engr	FARL	BSc(Hons)	Comp Science & Electronics
				Lancaster University

We also welcome a number of YTS Trainees to their appointments to GEC Avionics – as a result of their progress with the company while on the YTS scheme.

Technical YTS upgraded to Apprenticeship

John Barrell	Paul Bryant	Matthew Buels
Jason Bysouth	Trevor Campbell	'Steve' Dalgit Cheema
Andrew Davis	Lee Ervin	Craig Gladwell
Darren Hadlum	Nigel Hales	Colin Jervis
Christian Jessup	Gavin McDonald	Marlin Holsten
Gary Miles	Darren Morley	Richard Payne
Mark Perrin	John Ponsford	Andrew Robertson
Keith Sandwell	Jason Stewart	Nicola Stickells
Richard Stone	Jason Stringfellow	Alan Taylor
David Varrall	Roger Williams	John Price

Clerical YTS offered employment on completion of YTS

Graham Hollywood
*Helen Gaylor

WES TRANSPORT
FCD ENGINEERING

*Helen may be better known as Helen Fleet – she was married on 1 August.

Clerical YTS offered employment (with one year to complete on YTS)

Michael Jury	MASD Prod	Tracey King	PSD Eng
Clare Waterman	GAV Acc	Francine Porter	ATED Eng
Jeanette Cobb	AS&RD Eng	Tracy Turner	CACD Prod
Lisa Cunningham	ADD Eng	Andrea Crouch	FCD Eng
Georgina McNama	PSD Admin	Sharon Liddle	ADD Prod
Catherine Andrea	GAV Admin	Carol Stephenson	FCD Eng
Davina Clark	ISD Prod		



Prior to joining the Company in 1962, Ian Stitt obtained a BSc in Electrical Engineering at Glasgow University.

He started at Elliott Brothers, Borehamwood as an Engineer working for the Airborne Computing Division, and later took over the whole of the engineering team on the HSB01 Project, later assuming responsibility for a Bristol Siddeley Project.

Ian was promoted to Project Leader, ACD in 1967, then to Project Manager in 1969 and transferred with ACD to Rochester in the same year. His Divisional Manager was Paul Rayner.

He became Chief Engineer of PSD in 1972, with Divisional Manager John Bussell under whom Ian had first worked in ACD.

Ian was appointed Technical Manager of PSD in 1978 and promoted to Divisional Manager of PSD in 1979.

He is a Member of the Institute of Electrical Engineers. His presentation was by Ray Reese, Assistant Managing Director, CIS Group. (A)



John Jones has been Chief Engineer in AS&RD for over ten years, and before that was in the former MACD/FCD divisions. His work on various big projects has taken him on world-wide travel, and journeys within UK and Europe have been made following his great interest in the England Speedway team. Presentation was by Divisional Manager Mike Barton. (A)



Derek Crouthers, Production Project Controller, ADD, born in Rochester, joined the Aerospace industry in 1940 working with Kent Alloys and was called to the colours in 1944. He spent most of his three service years in what is now Bangladesh, helping out with the complex role the army played in winding down the war effort and events leading to the Indian continent partitioning. He was tempted into the Company in August 1962 and spent the first 9 years solving knotty problems on air data transducers and other flight instruments. Joining ADD in September 1971, he has now been with the Division for 16 years and has been associated with virtually all production programmes in that time. (B)



Alick Day worked for Lloyds Bank for many years as a bank clerk, then spent 4 years with the RAF and was trained as a Radar Mechanic. He returned to Lloyds in 1948 and later worked for Hardy and Co. as a furnishing salesman.

He joined Elliott Bros. in 1962 working as a Tester in MAC Division, then transferred to FID in 1963 and later to TAC in 1964. In 1970 Alick joined FCD and was swiftly promoted to T.A. He was further promoted to Development Engineer in 1972 and remained with FCD until 1980 when he switched to CACD. Alick was again promoted to Senior Production Engineer in March 1984 (his current position).

Alick has always been involved with the Test Equipment side and has worked on VC-10, Boeing 747, Concorde, WG13, BAC 1-11, Gazelle and Tornado. More recently he has worked on Compact Alpha and was instrumental in the successful introduction of the Marconi System 80.

Alick lives in Gillingham with his wife and has two married sons.

His only known hobbies are sailing and enjoying the English countryside.

Divisional Manager Keith Snelling handed over the canteen of cutlery. (B)



25 years' service presentations continued overleaf

25 years' service

FCD Project Leader **Jack Ruler** was originally in AEID, but in FCD (Mark I and II) since the late 60s. As well as being much involved in electronics, he has done a lot of Hydraulic and Systems work, and his wide experience has involved flying vehicles of various types, also hovercraft – and parachutes! And Jack's expertise as a sculptor has not gone unnoticed. A great number of friends and colleagues watched Divisional Manager Brian Tucker make the presentation. (B)



Fred Pierce, Production Project Controller, ADD,

born in Acton, joined the Queen's Hussars at 17 and within a week found himself transferred to the Horseguards! He spent 6 years in the Horseguards and still rides when someone will lend him a horse. Leaving the guards in 1954 he joined Ultra, then Vaeiric Controls and then Elliott Automation, Lewisham in April 1962, transferring to Data Analysis and Display Division, Rochester in 1967. Within a year Fred had joined the ADD side of the Division and has now been with ADD for almost 20 years. (B)



Peter Pickering, after apprenticeship in Maidstone, joined the Company as Tester in TACD, and by 1970 had spent some years on commissioning of test equipment. There followed 3 years in QA, then – say AS&RD – the best move ever, to Quality Technician in that division, where he still is a leading repairer and tester of VC10 and BAC 1-11 equipment – the aircraft which are Peter's speciality. At home, he is Chairman of the Maidstone Branch of his amateur radio society, and is also seen enjoying sponsored cycle rides in aid of various charities. The presentation was by Ken Rhodes, Production Repair Manager. (B)



Arthur Dennish, just prior to his retirement as Credit Controller in AS&RD, celebrated his 25 years, of which the first seven were spent in TACD where he rose from Estimator to Contracts Manager. Arthur transferred as Contracts Manager to AS&R, on the Civil side, in 1969 and became Credit Controller in 1972. Mike Barton handed over Arthur's barometer. (A)



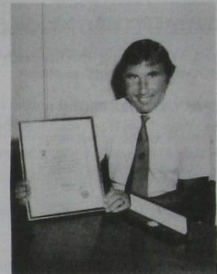
Derek Baldwin originally joined FARL and was initially involved in research into thin film circuits and "cordwood" module techniques. Subsequently, early pioneering work on the analysis of maintenance on Civil aircraft equipment introduced him to a long career as an analyst on reliability. This subsequently meant heavy involvement in the ILAAS and A-7 Head-up Display programmes when those contracts came along. This experience was then at a premium and Derek subsequently worked on programmes as diverse as the Jaguar NAVWASS and Nimrod Crew Trainer, and finally in work for the MoD (PE) on GW and Naval Surface Weapons reliability techniques.

Since 1980 the rapidly emerging technology of electromagnetic compatibility (EMC) testing presented a new and irresistible challenge with its diverse applications and wide range of problems involving both hardware and software and requiring systems analysis and solutions. CQD Manager Ken Boardman recalled Derek's career milestones while making the presentation of a clock. (A)



Ray Brown, Instrument Technician in GSD, is from the IND side of the house and in that division he has spent most of his time on the big projects, in the clean room. 14 years were on the nightshift. Additional celebrations – Ray has just passed his Silver Wedding, and his eldest daughter has just been married.

Ray received his presentation watch from Divisional Manager Bob Ruggles. (A)



Retirements

Doreen McKenzie has retired from ADD Progress Dept. She has been with the company for nine years, having started with TACD then moved to ADD Buying. Production Manager 'Curly' Childs gave Doreen presents and best wishes from her friends and colleagues. (A)



In June a team from Rochester descended on Llantwit Major, a village in South Wales, to formally retire **John White** – ISD Logistics Manager. Present were John Colston, John Clover and Maureen Scott from GAv and Fred Mackley, Fred Wickham and Roger Fudge from the Division. John shared his surname with many others over

the last twenty plus years but his blend of talents and personality was quite unique. Invited by John Spinks to form a Logistics Group in ISD in the seventies he spread the logistics message far and wide to all parts of the Company, subcontractors and even less-knowledgeable customers. Whilst he spent a short period in Quality Assurance, he will be remembered for creating a professional Logistics team mainly from GEC apprentices. John had boundless enthusiasm and energy and would often be seen re-writing proposals after the 'youngsters' had gone to bed, and again before they woke up next morning. He led his group and others by example, was a true expert at his trade but always added the extra dimensions of excitement and fun to everything he tackled. John was also well known for his stories of the desert war, recitals of Kipling and lunchtime bridge.

He was an integral part of three major US programs – GADC for the Lockheed C5A in the 60's, ADS for the Bell/US Army AH-1S Helicopter in the 70's and most recently responsible for all logistics activities on the USAF/USN SCADC program.

At his retirement presentation, goodwill messages were received from Rochester and Naissea and also from many friends in Lockheed, US Army, US Air Force, US Navy, GAv Atlanta and Dayton.

Our picture shows John organising his own celebration dinner whilst sitting on garden furniture supplied by his colleagues in ISD. We all miss his presence in the Company and wish John and his wife Sylvia a very well earned and happy retirement.



Peggy Dix's temporary security badge shows the reason for her retirement in July. She had been in WES for almost eleven years, as Cleaner in Tower 2. But she is still seen around, having joined the Temporary Pool for a while. Here, Works Engineer Don Freeman hands over a TV and bouquet; there was also a cake and other presents. (A)



Ted Campbell, Leading Hand Fitter in ATED, started working life as an apprentice with an engineering company in Strood, which went bankrupt shortly after – the first in Medway to do so. (So say ATED, who aren't telling us if there was any connection. Nor do they comment on the scandalous stories concerning bottles and Ted's time in Scotland where the whisky comes from). After his apprenticeship, Ted joined the RAF and worked as Aircraft Fitter on Sunderlands, and following his first spell with Elliotts MER Division here, he went to Elliotts, Cowdenbeath, whence he returned to Rochester in 1968, to ATED. (They say) Ted then started his semi-retirement, but he will now give more time to his hobbies of carpentry and photography. (B)



Very much a contemporary of Ted Campbell is **Les Terry**, who joined MER Division some 35 years ago, just after Ted. They used to be close neighbours and shared many spare-time interests.

By 1960 Les was charge hand of Fitters in ATED, then situated where GSD machine shop now is – but the heating wasn't so good and they had very little equipment. Thus much "borrowing" was done to keep the SCORE project going. Obviously from the right people, as Les soon became Foreman and by 1967 was Superintendent, the post he held for 20 years till his retirement due to poor health.

Les enjoys his golf, but it is believed he no longer modifies his clubs and putters to improve his handicap – his wife still used to beat him! And his days as an active political campaigner when he used to tear down the opposition's posters and replace them with his own are also over – probably after the car broke down in the middle of the opposition stronghold.

We wish Les well in his new villa in Spain. (A)



John Cook of PSD Production retired on Wednesday 5th August. Due to holidays his presentation was made on Friday 7th August when Mick Meakin – Production Manager – wished him, on behalf of his friends and colleagues, a long and happy retirement after 38 years, and handed over a selection of farewell presents from John's friends all to enable his hobby of fishing to be more enjoyable.

John started work in a Melton Mowbray shoe factory in 1936, from there he went to Stanton Iron Foundry in 1937, Shorts at Rochester in 1939. He was redeployed during war time to General Aircraft Company at Feltham in 1941 and then selected as a 'Bevin Boy' for coal mine work in

1942. In 1946 he joined Swift and Swallow and then went to West Malling Aerodrome on maintenance in 1947. John returned to Elliotts Sheet Metal Division in 1949, Central Machine Shop in 1965 and then joined Powerplant Systems Division in 1980 where he worked as a Production Engineer.

John is seen here being presented with his gifts by Mick Meakin. (B)



Mary Cook retired from MASD due to ill health on 3 July. She had been employed as a cleaner since 1980 and will be sadly missed by her work colleagues, by whom every good wish is extended to her for the future. (B)



Sports and Social Club Round up

COMUS COMputer Users Section

What is COMUS?
COMUS is the computer users section of the Social Club, and is a group of home micro enthusiasts. COMUS is based at the club house at Hoo where we have a clubroom equipped with BBC and Sinclair micros, monitors, and peripherals. COMUS is dedicated to promoting improvement and interest in home micro-computing.

What does COMUS do?
We hold regular meetings reviewing new software and hardware as well as discussions and lectures. Recent meetings have included

"Wordprocessing", "Using Assemblers", "Games"(!), "Making Music", "Upgrading to disk", and "The ROM paging system", to name a few. We also hold informal weekly meetings.

Is COMUS only for BBC Micro users?
In a word, no. However, since most members have these machines, the emphasis has been on "Beebs". Those with other machines are more than welcome to come along to a meeting and talk about them, or even bring them in! We would like to set up Amstrad and Sinclair groups if there is sufficient interest.

What of the future?
We aim to have discussions and demonstrations on "Facilities of the Apple Macintosh", INTERWORD versus WORDWISE PLUS", Desktop Publishing", "Amateur radio bulletin boards", and a DOUBLE PHANTOM tournament, among other things.

Interested?
Get in touch with Secretary Liz Doe (New Rd 37), Treasurer Harry Iles (3913) or Chairman Steve Murgan (3994) for further details.

Bisley Week Success

Six members of the GEC Avionics/BP Rifle and Pistol Club attended the Small-bore Rifle Meeting at Bisley for the week 15th August to 23rd August.

A very hot and enjoyable week was had by all. A mention must be made of two members who achieved special honours – Mike Babb and Peter Keeling.

In late July they joined 38 other top shooters at Wolverhampton for trials to select a team of 20 to shoot a Dewar Match; 20 shots at 50 yards and 20 shots at 100 yards, against the Americans. The team was duly selected but due to bad weather the match could not be shot at Wolverhampton and was postponed until

Tuesday 18th August during Bisley Small-bore week.

At 5.30 on Tuesday morning the team assembled and decided conditions were OK. It was damp but calm and the sun hadn't started to cause too many problems. The 100 yards was shot under these good conditions, but after the start of the 50 yards, the breeze came up and conditions then became very tricky. The match ended with the team having scored 7891 out of 8000. Mike scored 393 and Peter scored 392 ex 400.

Later in the day it was announced that Great Britain had won the match by 1 point.

At the end of the week our duo reached the final of the

British Championships for the Earl Roberts Trophy. This is shot in three stages on an elimination basis – best scores go forward. Only 20 shooters take part in the final, out of an entry of around 1600, and consists of a modified Double Dewar, 40 shots at 50 metres and 40 shots at 100 yards. Peter scored 781 for 6th place and Mike scored 779 ex 800 for 11th place.

Mike has shot in the final 6 times in the last 7 years and for the last two years has tied for first place but lost in the tie-shoot. Peter has only reached the final once before when he was placed 16th.

The club would like to congratulate them both. Well done, Mike and Peter.

GAv/BP KENT CLUB Swimming Section

Children's Achievements ASA Swimming Skills Award

Name	Grade		
Kalli Samuels	1 & 2	Kelly Pethig	1
Becky Francis	1	Lucy Davies	1 & 2
Debbie Francis	1	Anna Maxey	2
Steven Pethig	1		

Distance Awards

Name	Distance (Metres)		
Aaron Smith	25	Anna Maxey	400
Steven Pethig	25	Helen Maxey	1,500
Kalli Samuels	100	Ceri Samuels	2,000
Lucy Davies	200		

S.T.A. Teddy Bear Award

Graham Dutton

R.L.S.S. Aquagold Award

Martyn Holt

R.L.S.S. Lifesaving No. 1

Martyn Holt Sarah Moffett

R.L.S.S. Lifesaving No. 2

Martyn Holt

R.L.S.S. Rescue Skills

Adam Gilbey No. 1, 2, 3 & 4

The next edition of GAv News will report our Sponsored Swim for the Special Care Baby Unit - All Saints' Hospital, and R.L.S.S. Aquagold Award Presentation.

Contacts:
Cyril Moffett (all teaching classes) 4241
Dave Jibb (Improvers & Squad Training) 3907

EMPLOYEES' CHILDRENS PARTIES

Saturdays
28 November & 5 December

Social Club member parents - have you returned your application form for the Party and/or a present

IF NOT - DO IT NOW!!



Club-House Club-House Club-House

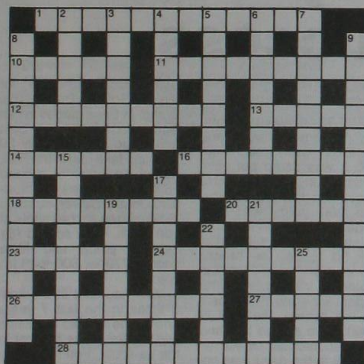
OCTOBER	Friday 30th October	NOVEMBER	Friday 13th November
Friday 23rd October MUSIC IN THE BAR with "FRENCH KISSES" 8 pm	with the "BUILDERS" 8 pm	Friday 6th November FCD DISCO "SOUND CITY ROADSHOW" 7.30 - 11.00 pm Tickets £1	BOWLS SECTION DINNER DANCE with "SOUNDS VERSATILE" Tickets £8 Dinner 7.30 pm Dancing until Midnight
Saturday 24th October PARLOUR DERBY EVENING 8 pm	Saturday 31st October OVER 50's COCKTAIL DANCE with "HAPPY DAZE" 7.45 - 11.45 pm Bar Closes 11.30 pm	Saturday 7th November BARN DANCE with "JEZREELS" 7.45 - 11.45 pm	Saturday 14th November BPOIL TERMINAL WINTER DANCE with "PEBBLE MILL" 7.45 - 11.45 pm

GAv/BP KENT CLUB 6th AGM

THURSDAY
18th FEBRUARY 1988
8pm in Ballroom

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

PROPOSALS FOR THE AGENDA TO BE RECEIVED BY 18th NOVEMBER 1987



Crossword No. 86

For amusement only

Across

- A character deterioration. (4-2-3-3)
- A book in the O.T. (5)
- Passing the buck or ball. (4-2-3)
- A prophetess of doom. (9)
- Italian town in north. (5)
- One with a keen perception. (6)
- Case for a sword, carrying. (6)
- A footpath or pavement to you. (6)
- He had a man Friday. (6)

- Parts for players. (5)
- Small European song-bird. (9)
- As the performer begins, one is filled with pleasure. (9)
- A human main stream. (5)
- Having a tendency to postpone or delay. (12)

Down

- Pleasant spot in dry and thirsty land. (5)
- From which it springs. (7)
- Egg shapes. (6)
- The occupier of high position ecclesiastically. (8)

- Where one can relax and soak it up. (4-3)
- Ah! If only they all came true. (3-6)
- Resilient to sudden change in auto's. (5-8)
- When she spied the handsome man it did. (6-3-4)
- Pure and natural. (9)
- Is it good luck or nuisance? (5-3)
- A riotous festivity with much drinking. (7)
- A chorus perhaps or again! (7)
- A mooring cable. (6)
- Informant? or annoyance. (5)

Solution to Crossword No. 85

Across

- Famous last words; 8. Spotless; 9. Bowmen; 11. Imps; 12. Fibre glass; 13. Views; 15. Divorce; 19. Interval; 20. Brick; 23. Kite flying; 25. Grip; 27. Earwig; 28. Cucumber; 29. Powder magazines.

Down

- Fossil; 2. Moot point; 3. Ugly; 4. Lassie; 5. Wrongdoer; 6. Rumba; 7. Sinister; 10. Train; 14. War Office; 16. Cock robin; 17. Pick me up; 18. Calyx; 21. Unsung; 22. Sports; 24. Throw; 26. Suez.

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

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