



## Royal Aeronautical Society Silver Medal for Dick Collinson

The RAeS have just announced the award of the Society's Silver Medal to Dick Collinson, Manager of FARL. This is "in recognition of his most significant contribution to research and development for advanced avionics equipment and systems and to their service

in the UK and abroad". The medal is to be presented on the occasion of the Wilbur and Orville Wright Memorial Lecture at the Society in London, in December.

Dick's career with the company started in 1953 when he joined us from the Bristol Aeroplane Co, where

he spent two years following graduation from London University. The first few years were spent on Inertial Navigation Systems development, and Air Data Systems for Lightning and Buccaneer. In 1961 he became Chief Engineer of the newly formed Flight Automation Research

Laboratory, and Manager in 1963. From 1966-71 he was Divisional Manager in FID then IND, which included responsibility for development and production of our first ADC systems exported to the USA.

In 1972 he resumed the management of FARL and has been responsible for the development by the Research Laboratory teams of a wide range of innovative systems and techniques which have subsequently been used in the development of avionic equipment for many European and United States aircraft.

These include Fly-by-Wire Flight Control Systems, Holographic Head-up Displays, Helmet Mounted Displays, Unmanned Aircraft Systems, MIL STD 1553B Data Bus Systems, Display Generation Systems, Video Map Displays and an Optically Signalled Flight Control System for Airships - 'Fly-by-Light'.

Dick Collinson is a Fellow of the Institution of Electrical Engineers and a committee member of the Medway Branch of the Royal Aeronautical Society.

This award is a great credit to him and to all the members of the successful teams led by him over many years.

## THE 4000th SCADC



At the hand-over ceremony in September, Ron Howard discusses the SCADC programme with Col T. Huneycutt, USAF, and Capt J. Snyder, USN. See inside, Page 3, for more details.

## EH 101 MERLIN ACOUSTIC PROCESSOR SUCCESSFULLY COMPLETES FIRST FLIGHT TRIALS

First flight trials have successfully been completed of the world's most advanced airborne acoustic processing system, MASD's AQS-903. This system and its software are currently under development for the Ministry of Defence and will equip the Royal Navy's future ASW helicopter, the EH 101 Merlin.

Initial trials have been carried out at Westland Helicopters at Yeovil using a Sea King helicopter as an avionic testbed. The first trial

took place on July 28th, only two days after equipment installation, with a second flight of two hours duration on August 1st. Full flight trials with the system installed in the Merlin are scheduled to commence later this year.

AQS-903 is a versatile, powerful and extremely compact system, able to process a wide range of passive and active sonobuoys. The system is housed in a lightweight rack which replaces individual processing units and which will easily accom-

modate additional processing cards as operational requirements evolve.

Maritime Aircraft Systems Division received the contract from MOD PE for development of the AQS-903 in 1985. This year the Company delivered four pre-production models to Westland Helicopters, who are responsible for the mission computer and for integration of the 1553 data bus with the three main sensors - acoustics, radar and ESM.

## A Message from our Chief Executive

### GEC - PLESSEY

By now, all of you will be aware of the success of the GEC Siemens bid for Plessey. The size of the GEC-Marconi Group has been increased by some 25%, the product range has been extended and our position in the world electronics market has become even stronger.

It is, however, unlikely that this acquisition will have any direct effect on GEC Avionics Limited in the short term.

Our sister companies GEC Sensors, Marconi Defence Systems and Marconi Underwater Systems are responsible for the initial introduction of our new businesses into the GEC-Marconi camp and details of the new groupings will be published later. Bearing in mind the necessity to retain the confidence of our new colleagues and their customers, this process cannot be rushed.

For us in GAv it is important to strive for even greater efficiency in order to compete in the more difficult market place.

## IMPORTANT APPOINTMENTS

Mr Alexander has just announced two new appointments in GAv, directly responsible to himself. **Bob Wilkinson** (General Manager) is now Technical Director. **David Reeves** (Group Commercial Manager) is now Business Management Executive, for co-ordinating all activities in the Company concerned with commercial viability and profitability.

## THE FCD/CACD HASKETT TROPHY TEAM



As already reported the 1989 Haskett Trophy was presented by Sarah Haskett to (l-r) Matthew Swoboda, Julian Old, Geoff Woodley and Chris Osborne.

**GEC Avionics News**

Editorial Office  
Tower 2,  
4th Floor,  
Airport Works,  
Rochester, Kent  
Extension 3852  
(Medway 44400)

Editor: Francis Latter

**Liaison Officers:**

Lynne Bates, Atlanta, USA  
Garry Rich, Nailsea  
Mick Thomas, AS&RD  
Sid Golding, CACD/FCD  
Fergus Maloney, FARL (New Road); Clive Baker, GSD  
Rod Cole, MASD, Dave Lucas, ADD; Mrs. J. Underwood, PSD  
Barry Wallington, Training Centre;  
Ken Castle, Ann Smith, ATED  
Maurice Sparham, CQD (Flying School)  
Phyllis Ellis, CMS

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



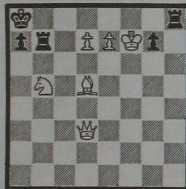
# Career opportunities in PURCHASING

If you are employed in a Production Department, have a minimum of two years' service with the company and are prepared to undertake a formal training programme for a career in Purchasing, your written application is invited by

Mr. B. Rogers,  
Senior Personnel Officer,  
no later than  
Friday 10 November '89.

## CHESS PROBLEM

White to play and mate in two moves



**Solution on Page 7**

## RETURN TO WORK

The Company has recently brought people back to the workplace by giving relatives of its employees an opportunity to build confidence and new skills through a 5-week training programme. This opportunity was advertised throughout the Company and produced a large number of applicants, of whom 17 were selected to commence the course. The Training Programme, designed by the Training Department, consisted of: Communication skills, Wordperfect Word-processing, 2020 Spreadsheet, Rdb Database, Freelance Graphics, Telephone techniques, and Office automation.

The training took place on-site in the Training Department

Computer Rooms and off-site at the Medway ITEC. Divisional visits were organised to ADD Production Department and MASD Engineering Department. On the last day certificates were presented to the trainees by David Perry, Manager Training Services.

Following the course, most members took advantage of work experience placements in various divisions. Subsequently, about half of the course members have taken up full or part-time employment within the Company or have engaged in further training.

**Future courses will be set up according to specific skill shortages within the Company.**



Pictured with the trainees after they 'graduated' from the retraining course, are Sarah Kenny, Tony Williams, David Perry, Ron Harris and John Rees.

## OBITUARY

**Jim Rowe** was involved in a road accident on Wednesday 6th September and tragically died later in hospital. He joined the Company in 1976 and had worked in AS&RD since the completion of his apprenticeship.

Jim as was a very popular member of the engineering department and was highly respected for his engineering talent by our customers and was deeply involved in liaison work with the RAF 30 Maintenance Unit at Chester. He supported a number of social activities and was a key member of the divisional football team.

Jim will be sadly missed by all his friends and colleagues and our deepest sympathy goes to his widow and two young children. *from AS&RD*

It is with deep regret and sadness that we received the news that **Geoff Flood** of Aviation Service & Repair Division passed away on 27th August, aged 65 years. Geoff had been with the Company for some 21 years. He joined TACD as a Storeman in 1968 and transferred to CMS in 1971, working in the Materials Store.

In 1973 Geoff was promoted to the position of Production Progress Chaser within AS&RD.

Geoff will be greatly missed by his friends and work colleagues. He leaves a widow Jean, and one daughter.

Many people will remember **Aubrey Bakewell**, who was in DAD, CMS, and the Sub-contracts team, who died recently at his retirement home in Cardiff.

**Donald Walter** of GSD Clean Room died at home on 3rd September; he had been with the Company since April 1987. *from AS&RD*

It was with great sadness that we learnt of the death of **Peter Roberts** on 5th September.

Peter had been with ATED Engineering since 1967 except for a period of time spent with STC

Telephones. He was a Principal Systems Engineer who had worked on many successful divisional projects such as SSE in the early seventies, and Thermal Imaging Test Equipment for which he was currently designing new concepts.

Peter was a local boy educated at Holcombe Technical School (now Chatham Grammar) from where he became a Dockyard apprentice. As a result of his high academic achievement he was selected to attend Durham University where he graduated with an Electrical Engineering Degree. He was a Chartered Engineer and a Member of the Institution of Electrical Engineers.

Peter suffered from breathing difficulties for most of his life, but such was his nature that he disregarded his disability and made an exemplary contribution to any project with which he was involved. His ability to grasp the overall engineering requirements and produce good solutions will be sorely missed.

Peter was a very active member of St. Mark's Church in Gillingham, where his conscientious commitment also led to the successful completion of a number of projects. These included the conversion of a disused barge into a Youth Centre and the modernisation and rebuilding of the Church. During his remembrance service, which was attended by some 200 people, the latter project was cited by the Vicar as being a memorial to Peter's commitment to the Church.

Peter leaves a widow, Margaret, and a son Philip living in Rainham. *from ATED*



# THE ROYAL AERONAUTICAL SOCIETY MEDWAY BRANCH

## LECTURE PROGRAMME 1989/90

1989		
15 Nov	Development of the Harrier	Mr J. Farley
13 Dec	25 years of the Bloodhound	Sqn Ldr A. German
1990		
17 Jan	Flying under Water—the ROV	Mr D. Taylor and Mr G. Belcher
21 Feb	EAP/Eurofighter	Mr P. Orme
21 Mar	TSR2	Mr Roly Beamont
18 Apr	Aircraft Navigation	Mr R. Collinson
16 May	AGM	

All lectures are on 3rd Wednesday of Month (except Dec)  
All start at 7.00 pm, in the Main Canteen

Guests are welcome at these events



SOME PEOPLE DON'T APPRECIATE GOOD LIBRARY STAFF.



# TELEPHONE EXCHANGE!

Has it ever occurred to you how difficult it is to locate people and keep the telephone directory up to date? What with staff transferring between divisions, being promoted etc. the task takes on the proportions of painting the Forth Road Bridge.

Well I believe I've come up with a solution - place people in job roles which they naturally would fill! The concept is so simple but, like the paper-clip, I'm sure it would have a profound impact on the company's business.

I've already done extensive research (using the existing directory) and (following appropriate re-training of personnel) the system would work something like this:

- A number of key GAV roles would, of course, have to be re-assigned, as follows: Head of Security: A. Secrett (AS&RD); Chief Librarian: R. Page (AS&RD); Chief Accountant: R. Rich (MASD); Chief Storekeeper: A. Holding (ADD); Import / Export Manager: J. Merchant (GAV); Finance Director: D. Price (FARL); Reception: R. Usher (ADD); Chief Cashier: S. Pay (ISD); Shipping Office: J. Dredge (M&CS).

- And, in Personnel: Director of Personnel: H. Staff (GAV); Company Welfare Officers: L. Angel (ADD) and D. Comfort (MASD).
- The new GAV Flight Operations team would consist of: Mrs. T. Bird (GAV), Mrs. A. Goldfinch (AS&RD), Mrs. G. Finch (GAV), P. Bird (AS&RD), P. Nightingale (MASD) and Miss J. Crow (CS).

- Works Engineering Services would undergo a major rationalisation with personnel being allocated as follows: Works Engineer: R. Workman (CACD); Chiller Plant Room: C. Frost (GAV); Electrical Workshop: M. Power (ADD); Main Boiler House: D. Coals (GSD); Plant Office: B. Lavender (ISD), L. Beech (CACD), S. Bracken (ADD), K. Flower (M&CS), L. Berry (APD), A. Birch (FARL), A. Bush (AS&RD) and G. Thorn (ATED); Building Maintenance: A. File (ADD), C. Sandum (AS&RD) and D. Painter (FCD); Electrical & Mechanical Maintenance: R. Fudge (ISD) and J. Patching (CMS); Sprinkler Pump House: R. Dew (ADD), D. Waters (SSD), R. Leek (ADD), R. Flood (CS); Transport Manager: J. Pickford (FARL); Vehicle Services Manager: S. Dunlop (ADD); Car Bookings: Messrs J. Austin (M&CS), D. Morris (FARL) and G. Ford (ADD); Packing Bay: B. Box (GSD) and P. Case (FCD); Telephone Exchange: R. Mutter (GSD), Miss N. Heard (FCD) and D. Howlings (ADD); Contract Cleaning: A. Loos (ATED).

- S. Cook (CQD) would become the new Canteen Manager, ably supported by the following staff: E. Butcher (GAV), P. Baker (ISD), P. Spice (FCD), R. Bacon (CMS), P. Kidney (MASD), D. Butcher (ISD), E. Browning (ADD), S. Parsley (RSD), M. Sage (AS&RD), B. Salter (ATED), M. Pepper (SSD), C. Honey (APD) and, of course, Miss J. Bottle (ISD) (Now re-drafted to WES following marriage - Ed.).

- After suitable training, our Works Surgeries would be staffed by: B. Fever (FCD), W. Ricketts (Accs), F. Pain (FCD), M. Faint (ISD), J. Prickett (FCD) and L. Leech (PCSD).

- B. Judges (GSD), M. Jury (ISD), P. Court (AS&RD) and A. Chambers (ISD) would all form part of a new company-wide Trials Engineering team.

The possibilities are endless! We could form 2 new teams specialising in software "animation" with I. Bull (ADD), S. Fox (ATED), C. Gibbons (MASD), D. Hare (APD), P. Lamb (FARL) and L. Springer (GAV) working under C. Snare (FARL), and (specialising in underwater applications) C. Bass (PCSD), B. Herring (CACD), J. Gurnett (CACD), J. Ling (PSD), S. Pike (GSD), K. Whiting (PER), R. Whale (GSD) and E. Seal (ADD) working under J. Fisher (GAV).

We could have a Company Chaplain, but with P. Adam (MASD), R. Amos (GSD), H. Alsalom (PER), P. Abraham (GSD) and R. Bishop (FCD) to choose from, I'm sure this would present no problems.

It may be that I'm not the first to think of this revolutionary idea. The following existing job titles would seem to show that it has been applied to a limited extent already:

R. Dugard (Chief Security Guard), Miss T. Billing (Buyer GSD) and W. Lockett (Import/Export - presumably bonded stores?). However, the following assignments concern me a little: T. Palmer (Financial Accounts) and G. Crook (MASD Security Officer).

Finally, I would suggest that the following rapidly change their names by deed poll, as their future within the Company would otherwise seem rather limited: E. Lusted (GSD), D. Waghorn (ADD), A. Willy (ADD), R. Hooker (ISD) and D. Batty (AS&RD). **Anon**

# WEDDING ALBUM

Congratulations to the happy people shown here who have been married during recent weeks.



**Janet Bottle**, Secretary to ISD's Commercial Manager, was married to **Robert Flood**, who was a

Contracts Officer in FCD, at St. Matthew's, Borstal on 22nd July. (A)



**Susan Davis**, Stock Control Clerk in CACD, and Tom O'Brien were married on

25th August at Chatham Registry Office. (A)



Peter Duckworth handed MASD's wedding present to **Liz Delaney**, Marketing Information Officer, who was married at St. Francis'

Church, Nailsea on 24th June to **Mike Banner**, ex Student Technologist and now Development Engineer in FARL. (A)



**Lyn Galantini**, who is a Section Leader (Clerical) in CACD, was married to Dave

Binfield at St. Mary Magdalene, Gillingham Green, on 5th August. (A)



**Robert Homer** was married to Sandra Bristow in July, at All Saints, Maggie Hall Road. Robert is a Methods

Engineer in ADD, where Ken Trafford gave everyone's congratulations. (A)



For his wedding at St. Michael's, Cuxton on 26th August, ex-apprentice Instrument Technician **Mark**

**Hogan** (centre) of GSD received the congratulations of his friends and colleagues in the Clean Room. (A)

## Congratulations

Ruby wedding anniversary congratulations to **Joan** and **Sid Golding** on 1st August 1989. Joan was Librarian in ISD before retiring three years ago. Sid is a Production Administration Officer in CACD.

Also congratulations to **Bev** and **Dave Golding** on the birth of their second daughter Penny on 10th August. Bev used to be in FCD and Dave is a Section Leader in MCD DO.

## AIR CADETS FROM OVERSEAS

Within the Air Cadet movement there is a scheme for exchange visits - the International Air Cadet Exchange. The young people involved are usually seniors in their cadet forces, sometimes even serving officers.

In August GAV were hosts to a group of cadets from the USA, Sweden, Germany, Turkey and France together

with escorts from this country. They were shown round ADD Production and after lunch went to the RAeS Medway Branch Preservation Group's workshop behind the main hangar. Pictured here, some of them are inspecting a Spitfire fuselage undergoing restoration, under the guidance of Alan Briggs of the Group and ISD.





# Souvenir of the QUEEN'S AWARD Party & Sports Day

## The Family Party



*Family Fun*

*The music  
goes round  
and  
around...*



*...and it comes out here!*

*The GEC Avionics Brass Band gave a fine performance*



## The Children's Races...

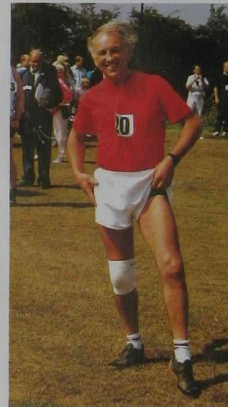
*...in the  
sack*



*...and on the track*



## The spirit of the whole occasion!



*Ray Reese,  
President of the  
Meeting for the  
Sports and master  
mind for all the  
day's events, posed  
for the camera  
before the Men's  
Veterans Handicap.  
On a more  
serious note, Ray  
would like to  
repeat his thanks  
to the host of  
people who were  
involved in making  
and carrying out  
the arrangements  
for our Queen's  
Award Party.*

[www.rochesteravionicarchives.co.uk](http://www.rochesteravionicarchives.co.uk)

# The Sports Day

...26th in the series

Photography by Alan Keats



The victorious GAV Tug-of-War Team, Richard Hale, Brian Tucker, Mark Unger, Derek Davis, Tony Williams, and John Spinks anchoring.



Anyone for the highjump? £2 for the best caption sent to the Editor



'Now what?' Consideration of tactics in the Bowls tournament.



Women's 100m. Sharon Davies (ISD), Val Cass (GAV), Perdeep Dhillon (AS&RD) and Tracey Horne (ADD).



GAV v MCD in the 5-a-Side Football.



Men's 1500m. Graeme Saker (AS&RD) and Jon Roots (GSD).



Finals of the Men's 100m. Lee Parsons (MASD) and Chris Rossiter (MASD).



MASD's winning Relay Team. Lee Mark Hitchmough and Mark W.



They went thataway. A less usual view of the Men's 1500m.

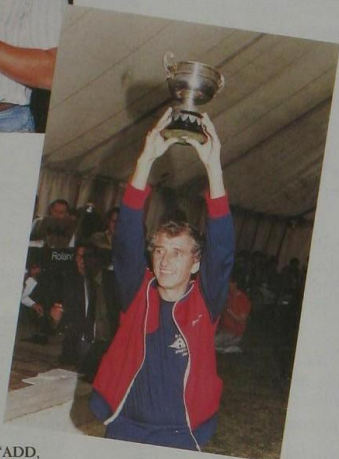
## Presentation Ceremony

Victor Ludorum Trophies presented by Mrs. Enid Howard

...to Graeme (MASD)

...and Nicola (AS&RD)

tion  
y  
n  
ard...  
me Storer  
cola Saker



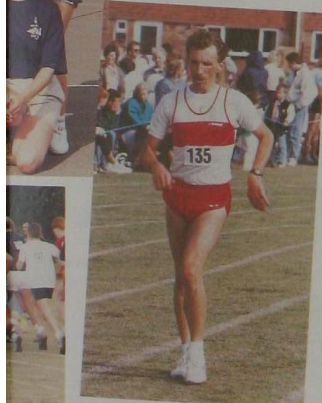
'ADD, here's your Trophy!'  
Alan Ward with the Management Trophy.



Lee Parsons, Chris Bryant,  
Walden.



ADD's winning  
Netball Team.  
Back row, l-r:  
Wendy Logan, Debra  
James, Karen Maynard,  
Sue Sunnucks.  
Front row, l-r:  
Nicola Guttridge, Sarah  
Ratray, Joanne Kelsey,  
Alison Skinner.



Keith Greenfield  
(ISD) in the 1500m walk.

## Individual Events

### Men

100 metres		sec
1	L. Parsons (MASD)	12.5
2	C. Rossiter (MASD)	12.6
3	S. Jury (ISD)	12.7
4	S. Dicker (ISD)	12.7
5	D. Christian (ATED)	12.8
6	J. Walmsley (ATED)	13.0
7	D. Trodd (AS&RD)	13.5
8	P. Venn (FCD)	14.4

44 completed  
55 completed

200 metres		sec
1	S. Jury (ISD)	25.0
2	S. Robb (ISD)	25.9
3	M. Walden (MASD)	26.1
4	R. Davies (FARL)	26.5
5	D. Christian (ATED)	26.5
6	S. Dicker (ISD)	26.7

28 completed

400 metres		sec
1	S. Jury (ISD)	60.6
2	J. Walmsley (ATED)	61.8
3	T. Baker (ADD)	62.0
4	A. Valentine (AS&RD)	63.9
5	D. Beasley (SSD)	64.2
6	P. Laughland (GAV)	64.4

12 completed

800 metres		min/sec
1	G. Saker (AS&RD)	1:59.2
2	J. Roots (GSD)	2:05.8
3	M. Sheridan (FCD)	2:20.3
4	S. Beaney (ADD)	2:20.5
5	R. Greenfield (ISD)	2:21.0
6	A. Goodyer (ADD)	2:22.0
7	S. Penny (ISD)	2:24.9
8	M. Pearce (ISD)	2:25.7
9	S. Flack (GAV)	2:26.8
10	R. Smith (ISD)	2:26.8

27 completed

1500 metres		min/sec
1	G. Saker (AS&RD)	4:08.5
2	J. Roots (GSD)	4:11.6
3	I. Coaker (ISD)	4:42.9
4	K. Greenfield (ISD)	4:46.4
5	M. Sheridan (FCD)	4:47.7
6	S. Beaney (ADD)	4:48.3
7	S. Penny (ISD)	4:52.7
8	A. Shave (GAV)	4:57.6
9	D. Stone (ADD)	4:58.8
10	S. Flack (GAV)	5:01.7
11	P. Belcher (ISD)	5:01.7
12	L. Ball (GAV)	5:05.4
13	C. Stubbs (CACD)	5:08.6
14	D. Beasley (SSD)	5:16.5
15	D. Gwynne (MASD)	5:17.1
16	M. Bloore (ADD)	5:17.7

16 completed

1500 metres Walk		min/sec
1	K. Greenfield (ISD)	8:18.8
2	P. Tattersall (AS&RD)	8:35.6
3	D. Wilson (ISD)	9:03.0
4	R. Davies (FARL)	9:07.8
5	S. Jones (GAV)	9:25.2
6	D. Broadbent (ATED)	9:27.5
7	M. Jury (ISD)	9:52.9
8	M. Bloore (ADD)	9:53.2
9	R. Gupte (PSD)	11:01.0
10	D. Perry (GAV)	11:06.3
11	C. Nash (FCD)	11:55.1

11 completed

High Jump		metres
1	P. Chapman (ADD)	1.70
2	L. Parsons (MASD)	1.60
3	K. Taylor (ATED)	1.55
4	M. Hitchmough (MASD)	1.50
5	M. Walden (MASD)	1.50
6	A. Shave (GAV)	1.50

32 completed

Long Jump		metres
1	G. Dias (ADD)	5.17
2	S. Small (FARL)	5.17
3	G. Gallagher (ADD)	5.12
4	A. Skinner (AS&RD)	5.10
5	P. Chapman (ADD)	4.99
6	G. Gilbert (ADD)	4.90

65 completed

Shot Putt		metres
1	G. Storer (MASD)	11.28
2	M. Walden (MASD)	9.80
3	M. Chapman (ADD)	9.80
4	A. McIlheron (ISD)	9.36
5	L. Parsons (MASD)	9.35
6	A. McKenzie (FCD)	9.19

44 completed

Discus		metres
1	G. Storer (MASD)	32.24
2	P. Mayger (AS&RD)	30.52
3	M. Chapman (ADD)	25.84
4	A. McIlheron (ISD)	24.60
5	S. King (ADD)	22.76
6	M. White (ADD)	21.36

50 completed

Javelin		metres
1	N. Chapman (ADD)	41.42
2	G. Storer (MASD)	41.02
3	A. Rayne (ISD)	38.22
4	P. Goodchild (ISD)	36.62
5	D. Christian (ATED)	33.62
6	C. Rossiter (MASD)	32.84

56 completed

### Women

100 metres		sec
1	N. Saker (AS&RD)	14.8
2	S. Tilmuth (FCD)	15.4
3	L. Mose (ADD)	15.9
4	A. Tagg (PSD)	16.1
5	A. Mayger (AS&RD)	16.2
6	H. Skinner (PSD)	16.2
7	K. Smith (AS&RD)	16.5

28 completed

800 metres		min/sec
1	L. Shackleton (ISD)	2:54.7
2	P. Tagg (PSD)	3:07.1
3	L. Mose (ADD)	3:07.1
4	K. Friend (ISD)	3:11.2
5	A. Skinner (PSD)	3:15.3
6	G. Evans (ATED)	3:25.7
7	S. Kellett (GAV)	3:33.3
8	M. Blackwell (MASD)	3:50.7

8 completed

High Jump		metres
1	N. Saker (AS&RD)	1.30
2	S. Gourt (AS&RD)	1.20
3	R. Roberts (GAV)	1.15
4	P. Dillon (AS&RD)	1.15
5	H. Skinner (PSD)	1.15
6	T. Horne (ADD)	1.15

14 completed

Long Jump		metres
1	N. Saker (AS&RD)	4.18
2	S. Saunders (ADD)	3.87
3	W. Logan (ADD)	3.83
4	S. Nash (ISD)	3.82
5	G. Evans (ATED)	3.78
6	S. Court (AS&RD)	3.67

20 completed

Shot Putt		metres
1	S. Nash (ISD)	8.51
2	N. Saker (AS&RD)	8.17
3	D. Spillett (GAV)	7.79
4	V. Chapman (GAV)	7.75
5	J. Conner (MASD)	7.25
6	N. Mayger (AS&RD)	7.03

16 completed

Discus		metres
1	S. Nash (ISD)	21.74
2	N. Saker (AS&RD)	21.32
3	D. Spillett (GAV)	18.86
4	J. Kelsey (ADD)	17.42
5	S. Parr (GAV)	16.22
6	S. Marshall (GAV)	13.56

16 completed

Javelin		metres
1	S. Nash (ISD)	28.94
2	N. Saker (AS&RD)	22.60
3	A. Mayger (AS&RD)	21.98
4	C. Self (MASD)	21.06
5	W. Logan (ADD)	20.72
6	D. Spillett (GAV)	16.10

8 completed

### Veterans Handicap

Men		sec
1	G. Joyce (CACD)	12.2
2	C. Reese (GAV)	12.9
3	G. Belcher (GAV)	13.4
4	J. Evans (ATED)	13.5
5	B. Hall (FCD)	13.6
6	M. McVey (AS&RD)	13.8

23 completed

Women		secs
1	D. Firth (GAV)	15.5
2	G. Evans (ATED)	15.6
3	P. Richards (AS&RD)	16.7
4	G. Swelling (ADD)	16.7
5	L. Lyons (GAV)	17.1
6	V. Cass (GAV)	17.9
7	E. Parker (GAV)	19.5
8	S. Ward (ADD)	21.2

8 completed

# The Results

### Management Trophy

	pts	
1	ADD	213
2	ISD	160
3	GAV	112
4	AS&RD	103
5	MASD	83
6	FCD	65
7	ATED	58
8	FARL	24
9	PSD	18
10	GSD	10
10	PCSD	10
12	CACD	9

### Victor Ludorum Trophies

Men		pts
1	G. Storer (MASD)	17
2	S. Jury (ISD)	16
3	M. Chapman (ADD)	14

Women		pts
1	N. Saker (AS&RD)	33
2	S. Nash (ISD)	21
3	D. Spillett (GAV)	9

### Team Events

#### Tug of War

1	GAV
---	-----

Also competed:  
ADD, AS&RD, CSD, ISD,  
MASD, SSD (Welwyn)

#### 5-a-Side Football

1	SSD (Welwyn)
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Also competed:  
ADD, GAV, MASD, MCD,  
PCSD (Nalsea)

#### Netball

1	ADD
---	-----

Also competed:  
AS&RD, ATED, FARL, FCD, GAV,  
ISD, MASD, MCD, SSD (Welwyn)

Bowls		Ends
1	ATED	11
2	WES	9
3	CACD	7
4	ISD	7
5	FCD	6
6	AS&RD	5

#### 4x100 metres Relay

Men		sec
1	MASD	49.8
2	ISD	51.1
3	FARL	52.8
4	FCD	53.0
5	GAV	53.7
6	ATED	54.6
7	PSD	56.2

Women		sec
1	ASRD	63.3
2	ADD	66.3
3	PSD	66.9
4	FCD	67.1
5	ATED	68.3
6	MASD	68.9
7	ISD	73.6

### INTER-DIVISIONAL SPORTS COMPETITION

The success of the Sports Day in July has prompted planning for the next event.

A Committee, consisting principally of representatives of the various sports, has made certain recommendations. The main ones are:

1. There should be separate trophies for each sport and a new Trophy for the Inter-Divisional Sports Champions.
2. For the new Trophy, each sport will carry equal points value.
3. The Champions Trophy need not be confined to the sports included in the 1989 Competition, i.e. Athletics, Swimming, Tug-of-War, Bowls, Netball and Five-a-Side Football. It could also include other inter-divisional competitions, ideally (but not exclusively) competitions which could be held on the Sports Day, either wholly or at semi-final/final level. However, all participating competitions will have to be concluded on or before Sports Day to count towards the Trophy.

On this last point, there will need to be some adjudication of the eligibility of particular sports. Badminton, Squash, Tennis and Hockey are obvious candidates; snooker, bar billiards and darts are doubtful and shove ha'penny and knitting are probably non-starters. Sports organisers who are interested in participating are asked to consider how they would arrange their own event within an Inter-Divisional Sports Competition concluding on or before the Sports Day. In the near future they will be asked to register interest and to demonstrate an appropriate level of probable participation.

Watch for further announcements!

# ...and the Swimming Splash Gala

Our sincere thanks to everyone who helped make the Gala a resounding success. A very special thank you to:-

Roger and Vanessa Carpenter for organising the Gala.

Linda Samuels for all her work at the Company and chasing out swimmers as 'Whip' on the day.

We made two decisions on the day which were very popular with the swimmers and spectators:-

1. To call the Gala a Splash Gala - thus avoiding a lot of disqualifications.
2. To make all events 1 length (25 yards) - very popular with the ladies and the older swimmers.



Richard Gotting (ADD) won the boys 10/12 age group for front crawl, back crawl and breast stroke

## Victor Ludorum Trophy - Children

Thank you to the Company for donating a cup for the children scoring the most points in the Gala.

The winners were:

Kalli Samuels, GAv;  
Richard Gotting, ADD  
and Kirsty Samuels, GAv  
who each scored 18 points.

Next year we hope to have an inter-divisional Victor Ludorum Trophy for each of Men, Ladies, Boys, Girls.

Cyril Moffett  
Chairman  
Swimming Section



Kalli Samuels (GAv) won the girls 10/12 age group for front crawl, back crawl and breast stroke.



Left to right: Kay Snelling, Mrs. Frances Reese who gave out all the prizes, Vanessa Carpenter, co-organiser, and Kalli Samuels. The flowers say it all!

## RESULTS

**Girls 10/12 Years Breast Stroke** sec

1 Kalli Samuels (GAv)	21.41
2 Kay Snelling (ADD)	24.61

**Boys 10/12 Years Breast Stroke** sec

1 Richard Gotting (ADD)	20.42
2 Ian Snelling (ADD)	25.16
3 Sanjay Mistry (CACD)	28.38

**Girls 13/14 Years Breast Stroke** sec

1 Sarah Moffett (ISD)	17.96
2 Ceri Samuels (GAv)	19.13
3 Emma Snelling (ADD)	23.91

**Girls 15/16 Years Breast Stroke** sec

1 Kirsty Samuels (GAv)	18.24
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**Boys 15/16 Years Breast Stroke** sec

1 Jason Slucock (FCD)	18.89
2 A. Shave (GAv)	18.99
3 G. Ward (ADD)	19.82

**Ladies 17/30 Years Breast Stroke** sec

1 E. Hansell (SSD)	19.66
2 S. I. Dowle (ISD)	19.94
3 J. Barr (SSD)	20.75

**Mens 17/30 Years Breast Stroke** sec

1 A. James (ADD)	13.34
2 D. Reast (ADD)	15.30
3 D. Bradley (ISD)	15.30

**Ladies 31/50 Years Breast Stroke** sec

1 P. Northover (ADD)	20.92
2 K. Earl (FCD)	22.79
3 J. Wallace (ADD)	24.63



Kirsty Samuels (GAv) won the girls 15/16 age group for front crawl, back crawl and breast stroke.

**Mens 31/50 Years Breast Stroke** sec

1 T. D. Pound (ISD)	16.69
2 P. Holliman (ADD)	17.40
3 R. W. Davies (FARL)	17.72

**Ladies 50 Years & Over Breast Stroke** sec

1 Joan Murphy (ADD)	17.54
2 Rachael Burley (SSD)	27.90
3 B. Free (GAv)	37.37

**Mens 50 Years & Over Breast Stroke** sec

1 W. B. Hopkins (ADD)	19.05
2 T. Wilkinson (ATED)	21.10
3 D. Williams (ADD)	21.10

**Girls 10/12 Years Back Crawl** sec

1 Kalli Samuels (GAv)	20.63
2 Kay Snelling (ADD)	21.31
3 Eleanor Bull (ADD)	23.68

**Boys 10/12 Years Back Crawl** sec

1 Richard Gotting (ADD)	18.41
2 Ian Snelling (ADD)	21.30
3 Stephen Carter (GAv)	23.32

**Girls 13/14 Years Back Crawl** sec

1 Ceri Samuels (GAv)	17.55
2 Emma Snelling (ADD)	18.13
3 Sarah Moffett (ISD)	18.58

**Girls 15/16 Years Back Crawl** sec

1 Kirsty Samuels (GAv)	16.68
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**Boys 15/16 Years Back Crawl** sec

1 A. Shave (GAv)	18.88
2 G. Ward (ADD)	19.46

**Ladies 17/30 Years Back Crawl** sec

1 J. Barr (SSD)	19.86
2 S. Dowle (ISD)	19.92
3 K. Wightwick (GAv)	20.43

**Mens 17/30 Years Back Crawl** sec

1 A. Sitt (GAV)	13.50
2 M. Baldwin (ISD)	13.74
3 A. James (ADD)	14.54

**Ladies 31/50 Years Back Crawl** sec

1 J. Wallis (ADD)	23.25
2 K. Earl (FCD)	23.25
3 Di Firth (GAv)	30.54

**Mens 31/50 Years Back Crawl** sec

1 M. Sweeney (ISD)	15.39
2 S. Fritton (ADD)	18.02
3 P. Holliman (ADD)	18.19

**Girls 10/12 Years Front Crawl** sec

1 Kalli Samuels (GAv)	16.71
2 Kay Snelling (ADD)	17.58
3 Kristine Woodward (ISD)	19.22

**Boys 10/12 Years Front Crawl** sec

1 R. Gotting (ADD)	14.66
2 K. Snelling (ADD)	17.47
3 G. Young (CACD)	18.42

**Ladies 50 Years & Over Back Crawl** sec

1 Rachael Burley (SSD)	25.15
2 Joan Murphy (ADD)	32.41

**Mens 50 Years & Over Back Crawl** sec

1 W. B. Hopkins (ADD)	17.81
2 T. Wilkinson (ATED)	21.09
3 D. Williams (ADD)	21.66

**Girls 13/14 Years Front Crawl** sec

1 Sarah Moffett (ISD)	14.08
2 Emma Snelling (ADD)	14.66
3 Ceri Samuels (GAv)	14.97

**Boys 13/14 Years Front Crawl** sec

1 Peter Carter (GAv)	16.35
2 Kevin Bradley (ISD)	17.62

**Girls 15/16 Years Front Crawl** sec

1 Kirsty Samuels (GAv)	14.83
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**Boys 15/16 Years Front Crawl** sec

1 Jason Slucock (FCD)	14.88
2 A. Shave (GAv)	15.89
3 G. Ward (ADD)	16.18

**Ladies 17/30 Years Front Crawl** sec

1 K. Smith (AS&RD)	14.37
2 S. Dowle (ISD)	15.25
3 L. Friend (ISD)	15.25

**Mens 17/30 Years Front Crawl** sec

1 M. Baldwin (ISD)	11.66
2 D. Reast (ADD)	11.66
3 S. Richards (AS&RD)	11.66

**Ladies 31/50 Years Front Crawl** sec

1 K. Earl (FCD)	16.70
2 Pauline Northover (ADD)	16.93
3 J. Wallace (ADD)	17.18

**Mens 31/50 Years Front Crawl** sec

1 M. Sweeney (ISD)	12.90
2 I. Sitt (GAV)	14.19
3 I. Pound (ISD)	14.18

**Ladies 50 Years & Over Front Crawl** sec

1 Rachael Burley (SSD)	20.66
2 Joan Murphy (ADD)	25.01
3 B. Free (GAv)	39.70

**Mens 50 Years & Over Front Crawl** sec

1 W. B. Hopkins (ADD)	13.97
2 T. Wilkinson (ATED)	14.65
3 D. Williams (ADD)	15.33

## DIVISIONAL RESULTS

Pos	Div	Pts (Adults)	Pts (Child)
1	ADD	123	80
2	ISD	61	31
3	GAv	47	81
4	SSD	36	0
5	FCD	26	12
6	ATED	15	0
7	AS&RD	12	0
8	CACD	11	0
9	FARL	9	0
10	MASD	9	0



# THE GENTLE ART OF AEROBATICS

In the last issue, Kevin Vincent's win in the Elwyn McAully Trophy aerobatic competition was recorded. The other results given understated the achievement of the pilots concerned; Tim Hall in his first competition at Standard level was placed twelfth, and Steve Gibbons in his Beginners' event was fifth.

Since that competition at Little Snoring, Kevin has also taken first place in the Fenland Trophy event, also in Norfolk, with Tim Hall in fifteenth, out of 22. And at Sleaf in Shropshire in September,

Keith was placed fifth out of seventeen in another Standard level competition.

All these results demonstrate an ability and commitment far beyond the normal among our pilots here at Rochester. Congratulations!

And now, here is Kevin's continued account.

As it was written before the above-noted successes, we can forgive his modesty in not mentioning that he is now completing only his third season as a competitive pilot.

## AEROBATIC COMPETITION FLYING – a typical day

Most aerobatic competitions in the UK are organised by The British Aerobatic Association, some of the aims of which are "to promote and encourage aerobatic flying and to take such steps as may be necessary for the proper conduct and furtherance of the sport".

The competitions are designed to allow pilots to become competitive irrespective of their level of competence. This is achieved by holding contests at five different levels which are, in order of difficulty: Beginners, Standard, Intermediate, Advanced and Unlimited. This allows pilots at all levels of competence to compete in their relevant category.

Competition flying differs quite a bit from that seen at air displays. For example aerobatics at low level are forbidden and large penalties are incurred if the minimum height restrictions are broken. All the manoeuvres flown at Standard level competitions must be positioned within a 1 kilometre box of airspace, the base of which must not be lower than 300 metres above ground level.

A typical day's competition is at Fenland near Norwich. It is opened as usual by a contest briefing, amongst the important information conveyed to the participants is the place where the judges will be sitting (this is usually just outside the clubhouse so that refreshments are close at hand) and the "wind" direction. This is not necessarily the true wind direction but the direction in which the front edge of the box is to be aligned; this information is important because it will affect how certain manoeuvres will have to be flown; the true wind velocity can distort the shapes quite considerably, for example loops can end up looking anything but circular. A draw is made to determine the flying order and from then on it's "May the best man win".

The internal excitement is now increasing and this is not a good situation for safe and accurate flying. So to keep

the adrenalin at bay I walk around the aircraft and make a thorough preflight inspection checking particularly the control surfaces and rigging – the Stampe, being a biplane, is held in the right shape by rigging wires of which there are many. After the preflight check I get strapped into the cockpit and carry out the internal checks. At this stage I put the competition sequence card into its holder in the centre of the panel and mentally fly the sequence. Many competitions have two parts – a 'known' sequence issued a few weeks in advance for study and practice and an unknown sequence issued only just before each competition's flying time. The unknown sequence consists of standard manoeuvres but flown in a previously unknown order which will test the pilot's skill. In the case of the known sequence this last minute study in the aircraft is perhaps the 100th time I have flown it mentally with perhaps ten actual flying practices but for the unknown sequence this is the only opportunity which I have to work out the entry speeds for each manoeuvre to ensure that I complete the manoeuvre with sufficient energy (speed/height) for the next.

About 15 minutes before my flying time I start the engine. The Gypsy Major in the Stampe has to be started by hand-swinging the propeller. This is an archaic method of doing such things but the Stampe can spare neither space nor weight for an electrical system or starter. The Gypsy starts easily enough if it is fully warm or very cold but at any temperature in between it is quite temperamental so I always allow plenty of time. Once the engine is running, the familiar sounds, smells, and vibrations are all there and the flow of adrenalin begins to slow down. The engine must get to operating temperature before the run up checks can be completed so there's time for me to watch the competitor in front

of me fly his sequence. "Hm, I hope I don't dish out of the roll like that". When he (or quite frequently, she) finishes, I am cleared to take off. Open the throttle, the tail comes up, check the swing to the right and we are airborne in seconds and with not very much runway used.

The airfield has to be carefully identified since from three thousand feet the Fens look like one enormous patchwork quilt, and flying a perfect sequence over the wrong patch gets no marks!

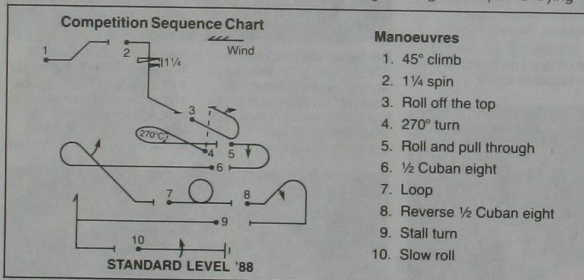
I position the aircraft at the top of the box, "A bit further away from the judges today as the wind will tend to drift me towards them". Satisfied with my position for the start I dive off two hundred feet to gain the entry speed required



Kevin and 'his' aircraft.

3... apply full opposite rudder, 4... 5... stick forward and spin stops, hopefully right on line. Then hold the vertical line on down as I'm going to need 120 knots for the next manoeuvre, pull 3g to level flight, check positioning, then a 4g pull to inverted, (ie half a loop) following a 1/2 roll to erect flight – "that's the roll off the top done". A level 270° turn to the left is next, making sure that the speed is nailed to 70 knots and the bank angle

she flies through her own slipstream, as we pull out straight and level. "Hope that looked as good as it felt!" The reverse half Cuban eight is next on the list which is flown just as the name suggests except that the speed must be kept to around 110 knots at the exit, so that I can draw a nice vertical line on the stall turn which follows. Up into the vertical, hold the vertical while the speed decays (the engine torque is trying to



for the first manoeuvre, level out and give the statutory three wing rocks to let someone down there know that I'm starting the sequence. From now on I'm being judged!

First manoeuvre is a 3g pull to a 45 degree climb holding attitude while speed decays from 100 knots to 50 knots; a smooth push over to level flight loses another 10 knots, juggle the throttle lever and mixture lever back to idle, "mustn't overdo it or there might be a very embarrassing silence" and I ease the nose up to enter the next manoeuvre, as the speed decays further through 35 knots I push on full right rudder; the right wing drops and we enter the one and a quarter turn spin, count the quarter revolutions 1... 2...

is no less than 60°, straighten up on the right heading check position, get ready for the next one which is simply the opposite to the roll off the top. As I roll inverted I end up hanging in my straps for a second at –1g then an invisible hand tries to push me through my seat as I pull through to erect flight, pulling almost 5g at the bottom. "I wish I'd had that sandwich now, it might have settled my stomach". I quickly glance at the sequence card to check the next manoeuvre. "A half Cuban eight, that's 5/8ths of a loop, short inverted 45° line down, half roll to erect, hold another short 45° line and pull straight and level." "Only four more manoeuvres to go." A nice round loop is next, feeling the aircraft kick as

push the aircraft over to the right so check with rudder). We've almost come to a standstill pointing vertically upwards so I kick the aircraft over to the right with the rudder preventing the yaw-induced roll with aileron, and she pirouettes about a point halfway out along the right wing. Down into the vertical, then pull out ready for the slow roll. I won't explain this one as it's a lot easier to execute than to describe! So after three wing rocks I've finished. "Now where's the airfield got to..."

I return to land, the whole flight has taken perhaps 10 minutes but it has been fairly exhausting. But there is still work to be done. When inverted the Gypsy Major tends to spew its oil all

around the inside of the cowling. Since warm oil is easier to wipe off than sticky cold oil this chore is done as soon as the engine has stopped. Then I can adjourn to the refreshment tent to await the results.

Sometimes the actual competition flying is the easy part of the exercise. Aerobatic competitions are held all over the country and last season the Stampe competed in competitions at Glenrothes, Fife and Bodmin in Devon. To get to these competitions involves up to 400 miles at a speed of just under 100 knots in an open cockpit aeroplane which is equipped with only basic instruments and has a safe range of only about 200 miles before having to land for fuel. Usually two or three people will fly the aircraft in each competition and the process of getting there starts on a Friday with the return journey on Sunday afternoon. Two pilots will fly the aircraft and the others will go in the support car with the spare parts, front cockpit cover panel which is fitted for solo aerobatics, aircraft covers for night-time parking, oil and all the other paraphernalia. The pilots carry out very detailed flight planning – checking weather, weather forecasts, refuelling stops, availability of diversion airfields, detailed routes around high ground, clearances through controlled airspace and the 101 other details necessary for a safe journey. Usually all the authorities are very helpful when they realise what the aircraft is and where it is going. Landing at Newcastle while a BAe 1-11 waits for take off and then taking on 15 gallons of petrol from a 3000 gallon bowser is a bit unusual.

The big uncertainty is always the weather and even a minor deterioration below the forecast level can cause great difficulty. The Stampe has no instrumentation for flying in cloud and the only IFR (usually Instrument Flight Rules) known to Stampe pilots is the "I Follow Routes (Railways)" variety. Quite frequently actually getting there and back is a major test of basic airmanship and more arduous than the competition itself.

# 25 years' service

## CORRECTION

The note on Brian Shoveller's 25 years, last issue, was incorrect. Brian's daughter, Jane does indeed work in CACD, but the picture actually showed Brian with his wife Margaret. Apologies to Margaret, Jane, and Brian himself. Ed.



Assistant Managing Director (DCSG) **John Spinks**, after graduating from London University joined the Company as a Development Engineer engaged in Air Data Systems design and the development of the first digital design, for which he became the first Software Engineer in ISD. He was then put in charge of their Engineering department as Chief Engineer at the age of 26, and was responsible for diversification of the business into high integrity electronic Stores Management Systems. Later, after promotion to Deputy Divisional Manager he was assigned special responsibilities for the development of subsea wellhead control systems for the oil industry. In 1978, he moved to Flight Controls Division, which was reformed into two units in 1979, with John as Manager of the new Combat Aircraft

Controls Division. During his career, John has been actively involved in a wide range of programmes for export to the US, and this experience contributed to his appointment in 1983 as Divisional Manager of the much larger Airborne Display Division at the time when two major contracts for head up displays for the US Air Force F-16 had been awarded.

Following the successful completion of these projects, John was appointed Assistant General Manager and later General Manager for the Navigation group and GAv Inc.

With the formation of DGSG in 1987, John was appointed to his present position. And he still finds time for his keen but sporadic interest in golf.

To mark the occasion Bill Alexander handed over the presentation clock. (B)



**Alan Corthorn** started his Mechanical Technician Apprenticeship here, was promoted to Student Apprentice 2½ years later, and finished his training in FID and MACD. Alan was appointed as Production Engineer in that division, and in 1970 in the newly-formed FCD started the long association with Doug Webster which continues to this day. In both eras of FCD he has worked as Project

Controller, Chief Methods Engineer, and Chief Production Engineer, and four years ago he was promoted to Assistant Production Manager, his present post.

Alan's wife Coral was also in FCD Production. Alan's main outside interest is with the Sittingbourne and Kemsley Light Railway, on which he has worked for nearly 20 years, for most of these as a Director. (A)



**David Clews** joined the company as a Systems Engineer in TACD, and remained in that Division for 6 years, during which time he was Project Engineer, Project Leader, on-site Manager for the Concorde project in Toulouse and finally Project Manager.

In 1970 he transferred to FCD as Project Manager and became Engineering Manager in 1974. He was promoted to Technical Manager of MASD in 1975 and became Divisional Manager of IND in July 1978, then Divisional Manager of MASD in 1980 and Divisional Manager of FCD in 1982.

In 1984 he was appointed Group Manager (New Projects)

and Phoenix Programme Executive.

David was appointed General Manager for all activities at Borehamwood early in 1987, and shortly afterwards General Manager of the (then) Dynamics Group, on the formation of the Surveillance and Civil Systems Group in August of the same year he became Assistant Managing Director of that Group, almost immediately being seconded to Los Angeles for 15 months, at the time when Lear Astronics and Developmental Sciences were being incorporated into GAV.

David received his presentation from Bill Alexander. (A)



**Bill Boorman** has been in ATED since its 'foundation', when they were renamed from DADD. He has been Inspector, Senior Tester, and 'through the ranks' to Chief Commissioning Engineer,

then being appointed QA Manager in 1972. Bill reads a lot besides Quality specs, and is a keen gardener and fisherman. His Divisional Manager Arthur Colwell made the presentation. (B)



**Mervin Cole**, Field Service Engineer in AS&RD, is noted for having spent 25 years in the same department – but is rarely seen there. Field Service Engineering Manager Mike Andrews, handing over the presentation clock, reminded those present that Mervin had 'looked after' BAC1-11 in Australia, Fiji,

and the Philippines, then Concorde at Heathrow. Thence to Europe and the Middle East for 747s, briefly on the Airbus, and completing the circle BAC1-11 again with the 'late' BCAL.

Now Mervin enjoys a support role for all the company's problems arising at Heathrow and Gatwick. (B)



CACD's Chief Engineer **Paul Baillie** started his career at Rochester as Student Apprentice, then joined ISD and worked as Development Engineer on air data systems, but from 1970 onwards with the introduction of digital techniques he became more and more involved with software. He was responsible for the original software design for the Cobra helicopter ADS and the Tornado SMS, and from

his promotion to the new position of Chief Programmer in 1975 he established the software engineering discipline within ISD. He became Software Manager in 1984 and with increasing computing system acquisition and management tasks he became Manager, Software and Common Services. It was early last year when Paul transferred to CACD on appointment to his present post. (B)



**Peter Brignall** joined the Company with Gyro Division following an apprenticeship with HM Dockyard, Chatham, as an Instrument Technician.

Peter was initially engaged on building miniature rate gyroscopes and later became Chief of Test, Chief Inspector and Deputy QA

Manager. With the formation of GSD he continued to apply his long experience in gyro products as Principal Quality Engineer.

Peter's leisure pursuits include golf, fishing and photography.

Bob Ruggles made the presentation to Peter. (A)



Quality Technician in AS&RD **Barry Rayment** started as an Inspector in the division, first on wiring them in the clean room. In 1972 he was promoted to Inspector Technician, on fuel flow transmitters, then in 1974 he was promoted to Quality Technician and soon started his fourteen years on nights,

still largely on fuel flow. Back in daylight last year, Barry is still helping to look after the equipment on the long-running BAC1-11 and VC10 contracts.

Ken Rhodes, Production and Repair Manager, presented Ken with a camera. (A)



**Derrick Hamlin**, Group Technical Executive, is seen here with his wife Glynis. Derrick came to TACD at Rochester from Manchester University, to work on BAC1-11 flight control systems, and in 1968 he completed an MSc at Surrey University on detachment from the division. In 1970 he went to IND(GSD) on Polaris Performance Assessment, becoming Chief Systems Engineer in 1974. Ten years ago he joined the GAV corporate team and is now heavily involved with conceptual developments in parallel processing. (A)



**Bill Martyn** of FCD DO completed a company apprenticeship as Fitter/Turner and 6 years in REME before returning in 1964. Originally this was with TACD and with the merger with FCD he remained with them, both then and since the 'split' in 1979. Bill has worked on most of the major projects and is now Checker Draughtsman. Darts is a major interest also – he is involved in setting up many tournaments. Bill received his presentation from Ray Dennis. (B)

## Retirements



**Frank Grant**, Design Engineer with ISD Microsystems, came to Rochester two years ago when the department moved from Radlett. He had been with Microsystems since it

was set up in 1978, this following a couple of years at Borehamwood. Manager Stuart Inchmore wished Frank happiness in his retirement at St. Albans.

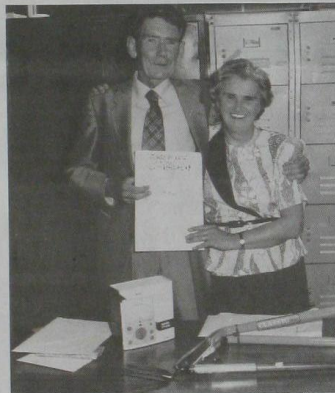


**John Jones**, Chief Engineer in AS&RD, has been doing a bit of Marketing in the last few months of his 27 years with the company. Originally he was in MACD/FCD, rising to Project Manager on Tornado, and in 1976 John

was appointed to AS&RD where the present Engineering, D.O. and Customer Training School were built up under his guidance. Now he and his wife Iris are moving to his native Wales. (B)

**Alan Dane** received the best wishes of ADD and the company from Keith Snelling, on his retirement from almost 25 years as Quality Assurance Manager. Earlier, Alan came to Rochester when Frank Cintel were taken over by Elliotts, to

be Chief Inspector of the former Data Analysis and Display Division. From Cintel and DADD came the HUD for Buccaneer, the first in the world and the forerunner of ADD's huge business in display systems. (B)



**Jim Drewett** has been Maintenance Electrician in AS&RD for thirteen years.

Here he is with his wife Zillah who is a Contract Cleaner in the same division. (B)



**Charlie Holloway**, seen here with his wife, has clocked up the remarkable total of 42 years service. In 1947 he started with Swift and Swallow, later joining

AEID, FID, and ISD on its formation; for the last 19 years he has worked in ISD Production on SMS and SCADC equipment. (B)



**Don Jones**, ex Navy and then in IND/GSD for around 20 years, was assistant to Dave Harries and then

Project Controller in Engineering, where Dave Powell handed over the division's farewell gift.

## CHESS PROBLEM SOLUTION

### WHY NOT P=Q CHECK?

Key 1 Qh7! (threat 2 Qxh8 mate)  
 1... Kb8 2 Qxh8 mate  
 1... Rg8 2 Qxg8 mate  
 1... Rf8 + 2 Pxf8 = Q mate  
 1... Re8 2 Pxe8 = Q mate  
 1... Rb8 2 Pxb8 = Q mate  
 1... Rd8 2 Pxd8 = Q mate  
 1... Rb8 2 Sc7 mate

This looks easy. 1 Pb8 = Q + Rxd8 2 Pxd8 = Q mate and 1 Pxb8 = Q + Rxb8 2 Pxb8 = Q mate are two obvious solutions – so what's wrong? Another look, and you will see that 2 Pxd8 = Q and 2 Pxb8 = Q are illegal moves because the Black Rook pins the Pawn left on the seventh rank. It is a nice trap. Problemists call this arrangement a White half-pin: each White Pawn is "half" pinned initially, and when one moves the other becomes fully pinned.

## Sports and Social Club round up

## The Reaper's Club Summer Season

We have had three very enjoyable Coach Outings well supported by the members. The first one to Eastbourne, the second to Dover and Folkstone and the third a tour of the New Forest calling at Guildford Cathedral on the way, generously given by the company with a bag of "goodies". The monthly meetings have been very successful with excel-

lent entertainment followed by Raffles and Bingo. In September we finished the season with a trip to Cliftonville to see a show at the Winter Gardens.

Our "News" Rep Jesse Griffiths has resigned owing to ill-health, we wish him well and hope to see him soon. The Christmas Dinner this year will be held on the 19th December 1989. C.R.

# ANNUAL GENERAL MEETING

The Club's Eighth Annual General Meeting will take place at 8 pm on **THURSDAY, 22 FEBRUARY 1990.** ITEMS FOR INCLUSION ON THE AGENDA SHOULD, IN WRITING, REACH THE SECRETARY BY 23 NOVEMBER 1989.

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

## GAv/BP KENT CLUB

### ELECTION 1990

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

Candidate's Name (please print):

\_\_\_\_\_

Candidate's Signature:

\_\_\_\_\_

Club No:

\_\_\_\_\_

Date:

\_\_\_\_\_

Proposer's Signature

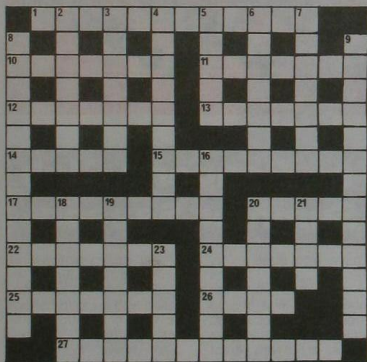
\_\_\_\_\_

Club No:

\_\_\_\_\_

This Nomination Paper is issued subject to Clause 5(a)(iv) of the Constitution and Rule 3

Nomination Papers must reach the Club Secretary by 31 December 1989



## CROSSWORD No. 97 For amusement only

### ACROSS

- In which generators work (5-7)
- An absolute whole (7)
- Given authority to act (7)
- A record of work etc, not diarist (7)
- A girl's best friend, I'm told (7)
- Girl's name (5)
- A possibility of success (3-5)
- A continent down under (9)
- Irrefutable evidence provided (5)
- A Lifeguardsman perhaps (7)
- Things that rouse to activity (7)
- A Berkshire town (7)
- Running after going wild (4)
- Sovereigns and Presidents alike (5-2-5)
- It allows the banner to be aloft (9)
- Where digestion goes on, and soldiers march on (7)
- A copycat in every detail (7)
- It becomes the debit on statement (4-3)
- The germ cell (4)
- Having royal associations (5)

### SOLUTION TO CROSSWORD No. 96

#### ACROSS

- Drum Major, 6. Inlay, 9. Widen, 10. Bold Front, 11. Treetop, 12. On Roads, 14. Easter-rink, 15. Epée, 18. Ride, 19. Humming Top, 23. Halibut, 25. Nominee, 26. Radiogram, 28. Trend, 29. Rump Steak.

#### DOWN

- Down-to-earth, 2. Undressed, 3. Minstrel, 4. Job-spect, 5. Roll one, 6. Infirm, 7. Loofer, 8. Yet, 13. Steeple Jack, 16. Potentate, 17. Enamel, 20. Utterer, 21. Minut, 22. Abroad, 24. Ladle, 26. Rat.

### DOWN

- Having a total of eight (7)
- To keep them fruit warm (3-4)
- North Sea drillers hope to (6-3)
- Alter ways or repair (5)
- Accuse one's self, with a blush of charm (7)
- The stuff a hay-fever sufferer avoids (3-4)
- It's blue and Chinese original for table ware (6-7)
- Chilterns, North Downs or Pennines perhaps (1-5-2-5)

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

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# Club-House attractions

Limited programme during rebuilding

## NOVEMBER

FRIDAY 10th November  
**APPRENTICES' CHARITY DISCO**

with  
**"IMAGES ROAD SHOW"**

Tickets from H. McArthur - Hopewell Drive  
**£1.00 members, £1.50 guests**  
(This year in aid of the family of Jim Rowe)

SATURDAY 11th November  
**BARN DANCE**

with  
**"JEZREELS"**

FRIDAY 17th November  
**BOWLS SECTION DINNER DANCE**

SATURDAY 25th November  
**AQUASEAL DINNER DANCE**

## DECEMBER

FRIDAY 1st December  
**ATHLETICS SECTION DINNER DANCE**

with  
**"ADA's 60s REVUE"**

SATURDAY 9th December  
**OLD TIME MUSIC HALL**

Admission free by ticket only

SATURDAY 16th December  
**FCD DINNER DANCE**

SUNDAY 24th December  
**CHRISTMAS EVE FUN NIGHT**

with  
**KEITH HOWARD ROADSHOW**

7.45 - 11.45

SUNDAY 31st December  
**NEW YEAR'S EVE DANCE**

with  
**"HAPPY DAZE"**

8.00 - 12.45

A limited number of tickets for guests are available - apply in writing to Secretary's Office.

**ALEXANDER'S RESTAURANT**  
Starting on Tuesday 5th December, Tues-Wed-Thurs are set aside for Block Bookings for the Christmas menu. Normal arrangements Fri-Sat. Enquire at Secretary's Office, Medway 251492, Short Code 6009.

## AMATEUR TALENT SHOW

If sufficient interest is shown it is proposed to stage an Amateur Talent Contest for members, or members' dependants, under the age of 18 years, some time after the building work is expected to be completed - February 1990. Any member, or member's dependants, willing to participate in this event should complete the form below and forward it to the Club Secretary.

### AMATEUR TALENT SHOW

Name: \_\_\_\_\_

Club No: \_\_\_\_\_

Division: \_\_\_\_\_

Address: \_\_\_\_\_

Talent: \_\_\_\_\_

(i.e. singing, dancing, playing)

Signature: \_\_\_\_\_

## GAv/BP Kent Club SWIMMING SECTION

### ANNUAL GALA/ SPLASH AND DISCO

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

A party tea will be provided and Father Christmas is expected to present a small gift to all Gala and Splash Entrants. The Gala will start at 2.30 pm (All entrants report at 2.00 pm). The Splash will start at 2.30 pm. The Splash is for young or inexperienced swimmers who can swim two widths (very young with ambands if required) or one length.

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

(Age at 6 January 1990)

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

## ENTRY FORM

Please enter my child in the following events:

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

Child's Surname \_\_\_\_\_

Christian Name \_\_\_\_\_

Date of Birth \_\_\_\_\_ Club No. \_\_\_\_\_

Signed \_\_\_\_\_ (Parent/Guardian)

Address \_\_\_\_\_

Tel. No. (Home) \_\_\_\_\_

(Work) \_\_\_\_\_

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

Further Information Contact: Dave Jibb, ADD, 3907

Cyril Moffett, ISD, 3855