

New organisation for the future

The formation of a new company, GEC-MARCONI LTD, was announced at the beginning of July by Lord Weinstock. It is responsible for the supervision and co-ordination of all the management companies previously in the Marconi Group and GEC Avionics.

This has resulted in the departure from Rochester, by promotion onto its Board and management, of some of our most senior and long-standing executives. Bill Alexander, whose name and record are synonymous with the build-up and success of GAV Rochester over some thirty years, has been appointed Deputy

Managing Director of the new company. Peter Hearne, also with a long and distinguished record here, is their Assistant Managing Director, responsible for the activities of GAV Rochester, GEC Sensors Ltd (previously GAV) Basildon, Marconi Communications Systems Ltd and Marconi on International Marine Co Ltd. Both these people are Board Members of GEC-Marconi, as is also David Rickard, who is appointed Finance Director. Professor John Shepherd is appointed Research Director, and the expertise of both will be of tremendous value to the new organisation.

Ron Howard is our new **Managing Director**

Responsibility for all activities here at Rochester, and at Nailsea, plus Mobile Radar and Applied Physics Divisions at Boreharmwood and Sonar Systems (previously Special Projects) Division at Welwyn Garden City, now rests with Ron Howard, who has been Managing Director, Dynamics Group since early this year, and has been so closely involved in the years of build-up to our present leadership in a number of

areas especially in Flight Controls Sys-

tems. In his new capacity as our chief executive, Ron Howard is also a Director strong associ-ation with his former Ro-chester col-

chester col-leagues. As we closed for press, Ron Howard announced the first step in his review of the Com-pany structure, with three new groupings of Project Divisions.

Divisions.

David Clews is Assistant
Managing Director responsible for Surveillance and
Civil Systems (SCS) Group,
comprising MASD, FCD,
AS&RD, RSD, SSD and MRD.

PSD and PCSD.

John Spinks is Assistant
Managing Director for
Displays and Guidance
Systems (DGS) Group, with
ADD, GSD, ATED, and APhD.

A Message from the **Managing Director**

The new GEC Avionics Limited, with its divisions at Rochester, Nailsea, Borehamwood and Welwyn Garden City, and the formation of GEC-Marconi Ltd are evidence of the thrust in GEC towards meeting the new challenges in world aerospace. Our colleagues Bill Alexander, Peter Hearne, David Rickard and John Shepherd have been promoted into GEC-Marconi, and our congratulations and very best wishes go with them. Here in GAv at Rochester there are still some more developments to be made in our internal management structure and I anticipate these being done in the near future.

We intend to meet the changes in the world of aerospace with the same success that we have achieved in the past. The recent purchase of Lear Siegler in the US is a vigorous move in this direction.

I am confident that the new arrangements will enable us to maintain our world lead in the design, development, and production of advanced systems for customers around the world.

Ron Howard



Major Acquisitions in the USA

As part of its strategy of expanding its presence in the United States aerospace industry, GEC has purchased the California-based Astronics and Developmental Sciences subsidiaries of Lear Siegler Holdings Corp. for US\$205 million.

Astronics and Developmental Sciences are situated in the Los Angeles area, a major centre of the United States aerospace industry. The companies are leaders in the design, development and manufacture of advanced flight control systems and 'of remotely piloted vehicles.

products form a natural addition to GEC Avionics' activities. These businesses will have total combined sales of around £450 million (U\$720 million), of which 40 per cent will comprise sales in or to the United States.

Astronics and Developmental Sciences are situated the Los Angeles area, a lajor centre of the United tates aerospace industry, he companies are leaders will provide us with a very powerful industrial base for expansion in avionics products and systems, not only in the United States but also internationally, says Ron Howard, who adds that the new combination will create the capability to supply the

widest range of advanced avionics equipment in the world.

world.

Combat Aircraft Controls Division and Astronics are already collaborating in connection with the Advanced Tactical Fighter programme for the United States Air Force. Also in the US market are our major production orders for ADD's HUDs and ISD's SCADC – this last will alone account for over 10% of the UK's avionic exports in 1987.

The company is also working in major new technology areas with Boeing on the new passenger aircraft, the 7J7.

GEC Avionics Inc., Atlanta

At the Annual General Meeting of the Board of Directors of GAv Inc., held in Atlanta on July 15, the Directors approved the following appointments:

HDFEAGLES-Chairman of the Board

WMBROYLES - President, Chief Executive Officer W M DRO FLES — President, Uniet Executive Officer Harry Eagles, well known to many at Rochester from his years in ADD and AS&RD, has been President and CEO in Atlanta for about 8 years. Bill Broyles has been at the Dayton office for many years, as Manager and more recently as Vice-President, Marketing, USA.

THE NIGHT-ATTACK AV-8B HARRIER 2 **FLIES WITH CATS EYES**



At the end of June, the McDonnell Douglas/British Aerospace night attack AV-8B, which is destined for the US Marine Corps, made its first flight near St. Louis.

EOSD's fixed forward-looking infra-red (FLIR) sensor is contained in the bulge on the nose; the pilot is wearing ADD's CATS EYES night vision goggles. Testing at

St. Louis will be followed in a few weeks' time by a further evaluation at China Lake, California, and deliveries to the Marine Corps are scheduled for late 1989.

Upstairs Restaurant 8 Bar Lounge

The competition for a name for the Restaurant attracted 105 entries from 30 people. There was a great variety of suggestions; two in particular, which came up several times with slight variations, were 'Alexanders' and 'The Flight Deck'. In recognition of many years of personal support of the Club, its new clubhouse, and now of the new facilities, by Bill Alexander, it was finally felt that the name

ALEXANDERS

would be most appropriate. This is especially so now, as a tribute to his many years at Rochester. The Management Committee have accepted this recommendation.

GEC Avionics News Editorial Office Tower 2, 4th Floor, Airport Works Rochester, Kent Extension 3852 (Medway 44400) Editor: Francis Latter

Liaison Officers:
Lynne Bates, Allaria, USA
Gerry Rich, Nalisea
Mick Thomas, ASSRD
Sid Golding, CACDFCD
Fergus Maloney, FARIL (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, COD (Plying School)

Editor's Notice Board

Does any one know who could translate a SWEDISH knitting pattern into ENGLISH? Phone Enid Dell – Medway 253189

ATLANTA CALLING!

May 15 was a special day for GEC Avionics Inc.! Captain Joe Bulmer of the US Air Force Thunderbirds toured our Atlanta facility and spoke with employees before their airshow appearance at nearby Dobbins Air Force Base. Accompanying Captain Bulmer were two of the team's avionics technicians, S.Sgt. Paul Duncan and Sgt. Mark Estes. They visited our F-16 production area and could see first hand our commitment to the Head-Up Display – such an integral part of the aircraft they fly in their dazzling shows. Being proudly displayed at our offices is a photograph of the planes in formation signed by all the Thunderbird pilots. A proud day for all of us at Atlanta!



USAF Technicians Paul Duncan and Mark Estes, Capt. Bulmer, as well as Bill Finch, Vice President Operations, look on as Ron Bell demonstrates the MonoHud system.





GEC Avionics Inc. President Harry Eagles receives photo-graph from Thunderbirds Capt. Joe Bulmer, Also pictured are technicians Paul Duncan and Mark Estes.

MAJOR CONTRACT FOR UPDATING **ROYAL NAVY HELICOPTERS**

MASD has won a contract to

MASD has won a contract to update the sonar system in the Royal Navy's fleet of Sea King Mk 5 Antisubmarine (ASW) helicopters. The contract, including the supply of new sonar systems, could be worth as much as £43 million. The update will improve the operational and submarine detection capabilities of the helicopter, increase its efficiency and reduce sonar operators' workload, by permitting more efficient manipulation and display of information.

information.

The enhanced system, AQS-902G-DS, will process information received both from free sonobuoys and a dipping sonar, presenting integrated information on a Cathode Ray Tube (CRT)

display.

MASD will modify 112
AQS-902C systems to AQS902G-DS standard, and
supply an additional 31
AQS-902G-DS to the Royal

At present, the Sea King is fitted with two "stand alone" systems, the Plessey 195 dipping sonar system and the AQS-902C sonobuoy processing system. The latter was developed and manufactured by GEC Avionics, and has proved highly successful during several years of operational service. A particular feature of the update is the replacement of the original analogue computing section of the Plessey 195 with the digital processing of the AQS-902 system.

processing of the AQS-902 system.

AQS-902 systems are fitted in numerous anti-submarine aircraft and helicopters worldwide, and have been fully proven in Royal Navy service since 1980, in the Sea King Mk 5. Over 150 such systems have been delivered and a further 75 are no order in addition to the contract described above.

Eunice McMillan, Welfare Officer says: "On Saturday 16 May I had the pleasure of attending the May Fayre at Mote House Cheshire Home, Mote House Cheshire Home, Maidstone, in order to present a cheque for £100 on behalf of the Central Charity Fund. The cheque was received by Kevin Lonergan, a resident of the

grounds and was able to talk with residents and staff who all expressed their thanks to the contributors of the Central Charity Fund."

Stouse Cheshire Home, istone, in order to tent a cheque for £100 behalf of the Central rity Fund. The cheque received by Kevin ergan, a resident of the te."

He way Fayre, an ual event, is the main raising event of the e, and this year the prods were being directed ands the provision of an ision to their existing tent for the centre. The company damagement, Mr. AL Lowton, Head of Home at Mote House, says that they hope to have the extension in use by December-used the company damagement, Mr. AL Lowton, Head of Home at Mote House, says that they hope to have the extension in use by December-used to offered at Mote House.





Aircraft Preservation Group

SPECIAL FILM EVENT

Wednesday, 16th September, 1987

A Special Presentation of archive Aviation Films is to be shown by Jim Ashton (Curator of Audio and Visual Studies, RAF Museum, Hendon) commencing at 7.30 p.m. Wednesday, 16th September, 1987, in the GEC Avionics Main Canteen.

Members, Guests and Friends are all very welcome. Programmes (50p) will be available before and on the evening. Proceeds will go towards the restoration of two Hurricanes and other aircraft at present being rebuilt in the Preservation Group's Workshops at Rochester Airport.

Shades of Clochemerle

On 6 July a major social event took place in MASD when Laurie Hampson, Divisional Manager and John White, Administration Officer, performed the formal opening ceremony at the Division's newest facility.

This somewhat radical refurbishment of the old Divisional Manager's office has, in the interests of higher productivity, increased the functional capacity of this particular installation by a significant amount, viz

Standing +130%.
Sitting +175%.
Washing +175%.
After a short bul moving ceremony the cross-legged queue of men anxious to try out the new offices was permitted to enter the marble halls, emerging shortly thereafter flushed with success.
The next phase in the

after flushed with success.
The next phase in the continuing refurbishment of MASD's vital amenities will be the provision of a similar (but not identical) update of the distaff side of this particular installation. Hang on Ladies!



www.rochesteravionicarchives.co.uk

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PARIS '87

The company's presence at the Paris Air Show in June was as part of the national exhibit of the Society of British Aerospace Companies (SBAC).

It was the occasion for the announcement of Flight Control System for the US Navy's new airship, a 400-foot non-rigid giant to be built by a consortium of Airship Industries Inc. and Westinghouse. The airship will be developed as an airborne early warning platform for the USN.

FCD has been working on this project since 1985, and will be subcontractors to Al, the system follows that pioneered by the system already supplied for Al's Skyship 600, and incorporates work done by Flight Automation. Research Laboratory. With initial production options, the order is valued at \$6 million.

Also featured impressively at Paris was the EAP technol-

ogy demonstrator aircraft, which flew publicly for the first time at Farnborough layear. Since then, CACD's flyby-wire flight control system has been thoroughly proven, and enhancements to the computer software ensured a highly agile and demanding aerobatic display.

ing aerobatic display.

Other systems featured by GAv were — Total Terrain Avionics (T2A); our total capability Flight Control systems; Communication and Navigation Systems; Night Vision systems including HUDs, 'head down' tactile displays and Night Vision Goggles. The Emerald radar proposed for the European Fighter Aircraft — for which EAP is the demonstrator—was also on show.

The company's pre-

The company's pre-eminence in the design and supply of avionic systems of all types was amply shown to important guests and experts from the world's aerospace industry.

"Voyez, c'est comme ceci, Monsieur le President."



The GEC Avionics National Gliding Championships



The Open Class National Championships at Lasham this year were badly hindered by June's appalling weather, and it was only possible for flying to take place on four of the nine planned

days. Disappointing since even the fine weather early on the opening day did not hold. Nevertheless a clear winner at the end of the event was Ralph Jones in a Nimbus 3 glider – his third win in this

prestigious event.

The picture shows Ralph Jones (I) receiving the winner's trophy from Dr. Geoffrey Pope, Director Royal Aircraft Establishment.

YET ANOTHER MAJOR COMPUTER **EXPORT FOR GEC AVIONICS**

Air Data Computer orders from USA reach \$135 million, as deliveries top 100 per month

GEC Avionics has now received orders totalling \$135 million from the United States Air Force, for production of Standard Central Air Data Computers (SCADC). A third order, worth \$35 million, has now been placed for this new range of aircraft computers, which are designed for re-equipping 39 different types of aircraft operated by the US Navy and US Air Force.

the US Navy and US Air Force. GEC Avionics has received all three of the pro-duction orders so far placed for SCADC. Instrument Systems Division began pro-ducing in late 1985 and is

currently delivering units at a rate well exceeding 100 per month, a record for such equipment.

This programme, which alone accounts for 11% of all UK exports of aviation electronics, has created over 2,400 jobs for ourselves and our 80 UK subcontractors' says Ron Howard, Managing Director.

"The performance and reliability of these computers in service is already proving the wisdom of the US Air Force and US Navy decision to standardise with a range of latest technology air data computers. We are proud to

be chosen to supply them, for aircraft ranging from the A-4 Skyhawk to the C-5 Galaxy."

ISD is employing the latest production techniques in achieving these high delivery rates, including the use of ATED's commercially-developed ORION automatic test equipment. Aircraft on which SCADC units are being installed include the General Dynamics F-111, Grumman C-2, E-2 and A-6, Lockheed C-141 and C-5, McDonnell Douglas A-4 and F-4 and the Vought A-7, together with their variants.

Another 1st for PCSD

(well 1000th actually)

Wednesday June 4th 1987 is a day that Power Conversion Systems Division will remember with both pride and a certain amount of relief, for it was that day which marked the delivery of the 1000th SCADC power supply to Instrument Systems Division.

sion.
The occasion was marked in a gesture of congratulations and encouragement when Fred Mackley, Divisional Manager of ISD, along with a number of his colleagues, arrived at PCSD on Tuesday night and

rapidly transformed the main Nailsea Conference Room into an exhibition centre and audio visual theatre. During the day PCSD staff were treated to a splendidly presented audio visual show highlighting the many milestones achieved during the SCADC programme to date. The proceedings were concluded with Fred Mackley congratulating the Division on it's achievements and looking forward to many many more power supplies for this most important programme.





Prizegiving by Mrs. E. Alexander







tham (FARL) Mens Vete

FARL'S MANAGEMENT TROPHY TEAM

Back Row L to R: Simon Cheetham, Dick Collinson (DM), Phil Breakwell Steve Small, John Brennen, Paul Wallace, Pete Holland. Centre Row L to R: Stephen Cheetham, Terry Leftley, Sally Leftly, Murie Cheetham, Robin Davies (Capt), Richard Potts.



The Results

MICH	
100 metres	sec
1 D. Cooper (GAv)	11.1
2 R. Hudson (ATED)	11.6
3 M. Butler (FCD)	11.7
4 I. Gower (ISD)	11.7
5 D. Dickson (FARL)	12.0
6 C. Rossiter (MASD)	12.2

200 metres	5
1 R. Hudson (ATED)	2
2 M. Butler (FCD)	2
3 I. Gower (ISD)	2
4 D. Dickson (FARL)	2
5 G. Saker (AS&RD)	2
6 R. Davies (FARL)	2

400 metres	se
1 R. Hudson (ATED)	50
2 M. Butler (FCD)	51.
3 S. A. Cheetham (FARL)	52
4 D. Dickson (FARL)	54
5 P. Trickett (ATED)	55
C.D. Dotte (CADIA	EE

-	
800 metres	min/se
1 J. Roots (GSD)	2:00
2 S. Fury (AS&RD)	2:01
3 R. Smith (GAv)	2:02
4 M. Martin (CMS)	2:04
5 D. Jones (Guest)	2:06
6 S. Allen (CACD)	2:07
7 N. Mason (GAv)	2:08
8 J. Rennie (Guest)	2:08
20 1 Ob 15 15	ADLA

	2:10
10 I. Broad (ATED)	2:14
11 E. Broad (ATED)	2:17
12 S. R. Cheetham	(FARL)

13 M	Bloore	(ADD)	2:2
14 J	Evans	(ATED)	(no ti

1 G. Saker (AS&RD)	3:54.
2 S. Fury (AS&RD)	4:01.
3 R. Leonard (Guest)	4:05
4 J. Roots (GSD)	4:15
5 J. Rennie (Guest)	4:16.
6 D. Jones (Guest)	4:17.
7 D. Williams (MASD)	4:19
8 A. Jones (Guest)	4:21.
9 A. Whiteman (CMS)	4:37.
10 S. R. Cheetham (FAF	RL)

	4:39.1
11 M. Bloore (ADD)	4:52.5
12 P. Tattersall (FCD)	5:06.3
13 D. De Winton (MASD)	
	5:09.4

1 T. Hayes (ISU)	
2 E. Broad (ATED)	8:16.6
3 S. R. Cheetham (FAI	RL)
	8:20.6
4 P. Tattersall (FCD)	9:04.2
5 M. Jury (ISD)	9:10.8
6 C. Utting (FARL)	9:34.8
7 R. Potts (FARL)	9:45.2
8 P. Carrington (MASI	D)
	0.40.0

Long Jump	metre
1 J. Nightingale (FCD)	4.3
2 K. Newton (FCD)	4.2
3 S. Brissenden (GAv)	4.1
4 E. Harris (ISD)	4.0
5 P. Brissenden (GAv)	3.8
6 G. Evans ATED	3.7
The state of the s	

Shot	metre
1 S. Brissenden (GAv)	8.6
2 E. Evans (Guest)	7.5
3 P. Brissenden (GAv)	7.3
4 E. Harris (ISD)	7.1
5 G. Liddy (FARL)	6.3
6 G. Evans (ATED)	6.2
7 R. Spinks (GAv)	6.0

metres	Discus
sec	1 E. Harris (
47.4	2 S. Brisser
40.5	OF Francis

Boys

4 MASU	51.5
5 FARL B	53.3
High Jump	metres
1 P. Chapman (ADD)	1.90
2 S. Crosher (GAv)	1.60
2 M Hitchmough (MACC	1 1 55

6 M. Chapman (ADD)	1.00
Long Jump	metres
1 G. Gallagher (ADD)	6.21
2 R. Hudson (ATED)	5.79
3 R. Hale (FCD)	5.42
4 S. Small (FARL)	5.30
5 M. Chapman (ADD)	5.30

6 R. Davies (FARL)	5.21
Shot	metres
1 G. Gallagher (ADD)	10.15
2 M. Chapman (ADD)	10.07
3 G. Cawte (FCD)	8.67
4 M. Hitchmough (MAS	SD) 8.31

6 P. Girow (FARL)	8.08
Discus	metres
1 M. Chapman (ADD)	29.92
2 G. Gallagher (ADD)	24.60
3 S. Small (FARL)	23.48
4 P. Barnicott (MASD)	21.92
The state of the s	24.00

. Hale (FCD)	21.82	(45
Girow (FARL)	16.36	(15-
velin	metres	1 N. M
M. Chapman (ADD)	50.84	3 J. F
Wallace (FARL)	42.00	4 G. I
. Rossiter (MASD)	36.82	5 C. I

Women

100 metres	sec
K. Newton (FCD)	14.1
S. Brissenden (GAv)	14.2
C. Adams (MASD)	14.5
J. Nightingale (FCD)	14.8
G. Evans (ATED)	15.3
S. Gower (ISD)	16.1

metres	min/secs	3 A. McAllister
ordon (ADD)	2:24.4	
dams (MASD)	2:30.3	100 metre
atson (ADD)	2:31.1	(13-14 year
reston (AS&RD)	2:32.3	1 K, Newton (F
utton (CQD)	2:35.0	2 K. Harris (AS
entecost (ADD)	2:41.6	3 S. Sutton (CC
larris (AS&RD)	2.43.7	4 J. Watson (Al
aragon (FARL)	3:13.9	5 R. Spinks (G)

Girls

4 × 100 metr	es
Relay	sec
1 ADD	57.7
2 FCD	58.4
3 FARL	67.

High Jump	metre
1 K. Newton (FCD)	1,2
2 S. Brissenden (GAv)	1.2
3 J. Watson (ADD)	1.2
4 S. Sutton (CQD)	1.2

1 J. Nightingale (FCD)	4.35
2 K. Newton (FCD)	4.20
3 S. Brissenden (GAv)	4.18
4 E. Harris (ISD)	4.00
5 P. Brissenden (GAv)	3.89
6 G. Evans ATED	3.72

Shot	metres
1 S. Brissenden (GAv)	8.64
2 E. Evans (Guest)	7.53
3 P. Brissenden (GAv)	7.32
4 E. Harris (ISD)	7.15
5 G. Liddy (FARL)	6.38
6 G. Evans (ATED)	6.29
7 R. Spinks (GAv)	6.06

				et			
14	-	84	0	ve.	20	A١	

(15-16 years)	sec
1 C. Adams (MASD)	14.5
2 J. Watson (ADD)	14.7
3 R. Spinks (GAv)	14.7

Veterans **Handicaps**

Men 100 metres	sec
1 G. Cheetham (FARL)	11.5
2 G. Joyce (CACD)	11.9
3 E. Broad (ATED)	13.2
4 J. Pickford (FARL)	13.2
5 P. Carrington (FARL)	13.3
6 R. Collinson (FARL)	13.6

Women	
100 metres	sec
1 P. Ingrams (ADD)	16.7
2 M. Cheetham (FARL)	19.0
3 J. Mitchell (FARL)	23.5

			m	
Tug-	10	W	ar	
2 FCD				

Management Trophy

STREET, SQUARE, STREET, STREET	
	pts
1 FARL	91
2 ADD	76
3 FCD	72
4 GAV	62
5 ATED	53
6 ISD	35
7 MASD	33
8 AS&RD	21
9 CACD	14
10 GSD	10
11= CMS	5
11 - COO	5

Victor Ludorum **Trophies**

Men	pts
1 R. Hudson (ATED)	22
2 M. Chapman (ADD)	20
3 G. Gallagher (ADD)	18
4 M. Butler (FCD)	14
5 S. Small (FARL)	10
6 = J. Roots (GSD)	10
6 = S. Fury (AS&RD)	10

Women	pts
1 S. Brissenden (GAv)	30
2 K. Newton (FCD)	18
3 P. Brissenden (GAv)	14
4 E. Harris (ISD)	13
5 J. Nightingale (FCD)	12
6 J. Watson (ADD)	8



HASKETT TROPH



AUTOMATE POWERPLA

The Tenth Haskett Trophy award was presented to two teams this year. Mrs. Sarah Haskett, now Deputy Mayor of Maidstone, who is the widow of Fred Haskett in the memory of whose long service with the company the award is made, was the guest of honour at a ceremony in the Conference Sulte, when she handed over the awards.

Opening the proceedings, attended by representatives from each Division's Management and young engineers, Dr. Bernard O'Kane commented how difficult the adjudication had been, with 11 entries this year.

The team of assessors considered Innovation, Value to the Company, Team effort, and Presentation. Next, Prof. John Shepherd said how 10 years of the competition had seen enormous changes in the technology. "Innovation, and the exploitation of it for the company's saucess, is alive and well in GEC Avionics."

exploitation of it for the company's success, is alive and well in GEC Avionics." It is the essence of the Haskett Trophy that the value to the company of each entry is assessed and this year's large entry, from all GAV establishments, gave a large task of judging. Prof. Shepherd went on to outline all the entries, and then

announced the winners.
These were: "Automated Powerplant Testing Unit" by Tony Fordham, Project Leader, and Adrian Taylor, Senior Software Engineer, of Powerplant Systems Division; and "AD3500 Communications System" by Keith Norton and John Little, both Principal Technologists, of Airadio Products Division, Basildon (now GEC Sensors Ltd). These entries were both judged to be of such outstanding merit that two first prizes of £1200 were awarded.

outstanding ment that two first prizes of £1200 were awarded.
Also this year, an award of £500 was made to the outstanding runner-up, David Puleston, Development Enjineer of Airborne Display Division, for his entry "New Display to T"A – Total Terrain Avionice".
To sum up the occasion, Mrs. Haskett thanked the company for again asking her to an occasion which gave her so much pleasure, and offered her congratulations to all the winners and other entrants. Tony Fordham presented her with a bouquet and thanked the judging panel for all their efforts, the company for organising the competition, and Mrs. Haskett for her support.

THE REST OF THE ENTRIES FOR THE HASKETT TROPHY

An Automated Electromagnetic Compatibility Production Test System

Steve Fisher
Don Lawrence
Bruce Readhead
Adrian Simmonds

Project Leader, Tornado
Project Leader, Tornado
Project Leader, Tornado
Development Engineer

Development of Nuclear Protection Device FARL

Clive Goodchild David Larner

Project Leader Senior Development Engineer

Off-Axis Holographic HUD Design Dr. David Hubbard Senior Systems Engineer (Optical Design) FARL

Advanced Ground Station

Application of ADA in a Real Time Flightworthy System

Peter Lowrie Mark Gamm Graham Wade Ian Sparks

Software Group Leader Senior Software Engineer Senior Software Engineer Senior Software Engineer

Improved Mission Survivability with **LCD Reversionary Instruments**

Trevor Spearpoint Melvyn Jones Tom Rogers Project Leader Development Engine Development Engine

A Vehicle Correlator for the Nimrod **AEW Radar**

Mr. N. Duff Project Leader
Ms. D. Little Senior Engineer
Mr. W. Strawhrone Senior Engineer

Innovative Tooling Method Aids AEW

Nimrod Mr. D. Francis Mr. J. Hancock Mr. A. Smith

Senior Development Engineer Development Engineer Quality Engineer

FCD

ISD

PSD

The Adjudicating **Panel**

PRESENTATIONS

Air Force, States Air st software

AD3500 COMMUNICATION SYSTEM

Airadio Products Division at Basildon designed the AD3500 Communications System for the new Harrier GR MK5, soon to enter service with the RAF. AD3500 is a VHF/UHF Airborne Communications Transceiver which embodies many innovative features and is fitted with an Electronic Counter Counter Measures system that provides an Anti-Jam capability through frequency hopping.

To win the contract the equipment had to be designed from concept to delivery for evaluation and flight trials in six months.

As a result of successful evaluation and flight trials the Division has an initial order for £2.8M, with healthy overseas sales interest.

POWERPLANT SYSTEMS DIVISION TEAM WINS "THE HASKETT"

At the ceremony on July 3, Mrs. Sarah Haskett Toresented Tony Fordham and Adrian Taylor with he 'Haskett Trophy' for heir entry, the Automated Powerplant Test Unit.

their entry, the Automated Powerplant Test Unit. Powerplant Systems Division had an early association with the Haskett Trophy. Frank Wooller, Chief Designer, was one of the contributors to the team which designed and manufactured the Trophy. On the tenth year of its award, Powerplant Systems Division decided the time had come to match his efforts with a winning association. In pursuit of equal opportunities for all, your GAV News reporter benetrated the closely cuarded campaign head-quarters and can now reveal some of the secrets of the award winning strategy. It all began explosively. As soon as the request for amms reached Chestfield, from the sandstorm in

KETT

the middle of a bunker, loud noises were heard and recorded. Using the special New Road decode equipment, these recordings were deciphered into "The Haskett, now come on you fellows, we need to challenge we need a strategy!" and a campaign was Chris-tened.

Long evenings in campaign headquarters developed the "Alexandra Principles", the unique method for analysing and identifying a winning mission plan. First, the previous years' entries were analysed. Using weighted means, the high success rate formula was developed. The venue, New Road, was statistically significant, the need to field two teams was identified, the agility of two-person teams was recognised as was the stamina and backing of larger teams. Secondly, the judging panel profile indicated optimum target ranging would be achieved by a powerful entry around Liquid Crystal Reversionary Displays', by Trevor Spearpoint, Tom Rogers and Melvyn Jones, and the contrasting, equally powerful and winning entry on "The Automated Powerplant Test Unit' by TonyFordham and Adrian Taylor. The Liquid Crystal Reversionary Displayentry showed an innovative use of the emergent liquid crystal technology to replace existing, largely, electro-mechanical standay instruments. These instruments provide the pilot with an independent source of essential flying, engine and fuel data. The benefits

that LCDs provide enable the positioning of the Reversionary displays within the pilot's normal cone of vision, making the displays easier to see and improving the pilot's assimilation of this independent information. Coupled with the application of the new technology was the deep understanding of the operating requirements for a display whose functioning is essential when the aircraft is suffering from some malfunction. These needs are built into the redundancy and channel separation aspects of the Reversionary Display design. The "Alexandra Principle" rated highly the quality of practical experience brought to the design as a result of the three team that LCDs provide enable the

members' participation in the GAv Flying Scheme. The winning Automated Powerplant Test Unit entry showed the contrast between innovation and inspiration. The APTU is a result of careful market analysis, a hard won practical background and an effective engineering implementation. These ingredients are combined into a unit which matches the market need for the accurate collection of measurements made by transducers mounted on aero gas turbine engines. The APTU forms part of a system connected to the engine which takes the measured values, computes the complex calculations which fully define each engines actual performance, and if the engine is outside limits either indicates the adjustments to be made or the engine component which is not performing to the required efficiency. As the engine is vital to the aircraft's operation, the system is designed to ensure the thoroughness of each test. This is achieved by ensuring test repeatability, by optimising the test sequence, by cueing the operator through the exacting test schedules and providing him with online engine status indication. The objective of the APTU design was to apply the latest technology and the hard-earmed experience from previous contracts to produce a unit which would open up a wide market for GEC Avionics. The effective implementation is due to the technical capabilities and practical experience of the team. Tony Fordham and Adrian Taylor have been fully involved in previous contracts to produce a unit which would open up a wide market for GEC Avionics. The effective implementation is due to the technical capabilities and practical experience of the Follow of the APTU design was to apply the latest technology and the hard-earmed experience from previous contracts to produce a unit which would open up a wide market for GEC Avionics. The effective implementation is due to the technical capabilities and provided in previous contracts where systems have been developed for the Adour engine in Jaguar, the Rolls-Royce RB199 engine in Tornado and the Gene

the environment in which the equipment exists and the needs of the operators. With trips to sites in such places as Cold Lake, Canada, where the temperature on a better day gets to 40°C, Tony Fordham became the holder of the Division's "Uncomfortable Flying" Endurance record He experienced flights in both directions across the Atlantic in the Canadian Forces Transport, londly known as "White Knuckle Airlines". In an evening over a pint in the Alexandra, Tony can provide vivid descriptions of the RB199 in surge (earthquaking bangs and flames emerging from front and back) and of close range acquaintance with tethered F-18s, in reheat, pawing on its undercart like a bull about to charge. The benefit of an effective EMC plan was clearly appreciated as aircraft were tested with weaponry fitted.

Tony joined PSD in 1978 with an honours degree in Electrical and Electronic Engineering from Bristol University having sampled the life in the Division as a vacation student during the previous summer.

Adrian Taylor joined PSD in 1977 as one of the first Trainee Computer Programmers, went through to gain his qualifications, develop an expertise in programming, and a good understanding of engineering Adrian is the Division's holder of the 'Walk on Water' award. This recognises his teats whilst being the front man on an extended visit to Baden, when the Canadians were wrestled to a standstill over calibration technique. He can be persuaded to relate some of his site experiences, of which his planthat enabled him to carry out a rescue from an Indian Reservation shows his ability to manage successfully in a

winning potential of the "Value to the Company" criteria. To date 236 APTU's have been ordered by the Royal Air Force, Royal Saudi Air Force and the United States Air Force, showing considerable potential business for the Division over the next ten years. The order from the USAF involves retrofitting their manual Engine Test facilities with APTUs and computer software and test software for eleven engine test facilities with APTUs and computer software and test software for eleven engine types with a total of thirty three variants, to be installed on bases between Turkey and points eastward to Japan.

The development and manufacture of the APTU has been a fast moving programme. From the initial definition less than two years ago, the equipment was demonstrated at RAF Cottishall last year and this year production units have been delivered to sites in the UK and USA. The rapidity of the development and manufacture is a tribute to the careful engineering design and the skills and effort in the Production Department. The resettlement of most of the Production Department. The resettlement of most of the Production Department. The resettlement of most of the Production Department. The resettlement and remote bases. It is understood that the Alexandra Principles define the levels of effort required and the techniques, both written and verbal, for the presentation and the value of this effort from the many complimentary comments made by the Panel on the clarity of the presentation and the depth of knowledge shown during cross examination.

It was after the award ceremony when your reporter can confirm the value of this effort from the many complimentary comments made by the Panel on the clarity of the presentation and the depth of knowledge shown during cross examination.

It was after the charred computer principle consists ... 98 and penel on the clarity of the presentation and the depth of knowledge shown during cross examination.

It was after the charred computer from the darkened upstairs room, there in the grate

(Alexandra? It's the one just by Chatham Station bus park, Ed.)



Wednesday 8th July saw the 8th running of the ADD Bite Place. Known as the "Tour de Medway", its popularity is increasing with enquiries coming from cyclists in other divisions regarding entry as guests. The organisers declare the event and a maximum number of participants to the traffic division of the Kent Police. So as not to introduce an extra burden to the timekeepers or infringe our statement to the police, no riders from outside ADD have recently been accepted. The organisers applogise for this fact but cannot change their policy. This year, 29 entries were received, one of which was a tandem which would be allowed to start but would not be eligible for pizes. The field also appeared to be very strong with a clear favourite to win, this was Medway Velo rider Derek Stone of whom it was felt, he only had to ride to win. The tandem was the first to start, George Cooke and Mark Tickner came early to the line and looked very confident wearing floral sun hats and head scarves. In perfect conditions the countdown began and off pedalled the intrepid pair into the forth-coming sunset.

began and on pecualed the intrepid pair into the forth-coming sunset. There were many new faces in the field which included a particularly strong team from the Software department Among the early starters were Linda Mose, the only lady on the early starters were Linda Mose, the only lady on the last and the first of these to go was Derek Avery. He had rejected his 1987 model bicycle in favour of his 1986 low profile machine. It has been calculated that pound for pound it is worth more than an F16. Next to go was Jum Beaney who for so long had set the standard for the event. He was followed by Gordon Lees who, by those in the know, was thought could be very fast. Last man off was odds-on favourite Derek Stone.

By now the early starters had arrived at the finish. First home was the tandem with it's occupants looking remarkably fresh considering the extremely good time recorded by the time-keepers. It was a while after that before the solos bagent.

to arrive, with the early starting software men all producing good rides. It was probably about then that gent Diagnamy about then that line. He had just arrived the start line. He had just arrived home from holiday before rushing off to take part in the race. The starter had been long gone but Geoff decided to race around the course. Much to his chagrin he punctured when just through Borstal and had to walk a shortcut to the finish.

Borstal and had to walk a shortcut to the finish.

The well-known course which results in the ascent of the feared Col du Bluebell was in a favourable mood with a slight breeze assisting the riders all the way from the turnoff at Borstal to the turn up to the Lower Bell. Here however a few of the lesser mortals still found it necessary to get off and push, while others were trying to put their deraillers into their spokes in search for a lower gear. On the hill Jim Beaney had Derek Avery in his sights but was obviously not quite going to catch him. Gordon Lees was flying around the course followed shortly after by Derek Stone; it was obviously not quite your old friend by the stimes were being recorded.

Later, in the gardens of the Robin Hood, the presentation of prizes was made by our old friend Dave Marvell the former Supenintendent of ADD Model Shop and the man whose name the "Tour de Medway" trophy bears. All the riders were presented with a prize when the results were read out in reverse order, but first announced was the performance of the pair on the tandem. Everybody marvelled when George and Mark were attributed with a time of 26.30 as

Tour de Medway 1987

ADD Bike Race)

they seemed to have achieved the impossible on so little training. John Seabrook did a good ride for 14th position in a time of 33.07 beating his previous best by 2 seconds. He was however disappointed with the time because he was held up by traffic in a couple of places and should have been faster. Steve Coates was also disappointed, he punctured halfway up Bluebell and rode the rest of the way to the finish on a flat back tyre.

All the top ten received medals, John Crennell was really lucky, he only beat Mike Blore by one second for 10th place. The Softies had four inders in the top ten but could not quite make the first three, with Rob Andrews 5th and Andy Walter 4th nearly a minute faster in 28.22. In third position was Jim Beaney with a time of 28.10. Along with several others that went on the Irip, he said he was still lired from touring around France only two days before. On such a good night

XI

could look back upon it with some enjoyment. Special thanks were given to the timekeepers Dave and Joyce Marvell, Colin and Diane Bennett, to Sheila Ward for providing each rider with a much appreciated drink at the end of the race; to marshals Chris Dardry, Kevan Duhig, Martin Davies, Jim Hamblett, John and Jean Stewart and last but not least all the spectators who helped to make the event as successful as it the event as successful as it was.

the said he should have been capable of a short 27 but confessed he would not have got near the first two. Gordon Lees's introduction to the race could not have been more remarkable. He had only brought his bike from home two weeks before the race after a long lay off. He stormed around to catch Jim Beaney for 2 minutes. His time for second place was 26.12 which beat the previous course record. This was to stand for just less than 2 minutes because Derek Stone came across the line with a time of 25.51. This was a winning margin of just 21 seconds which must have surprised even him. Derek is a good competitive racing cyclist and it would have been quite inexcusable if he had not won the race.

Now that the race was over and the pain of climbing the hill no more than a bad memory, the organisers thanked the competitors for taking part and hoped that they

known for their outstanding sportsmanship (sic).

Meanwhile the results of Derek Stone's drug test has come through and whilst it did show negative his specimen also confirmed that he is pregnant.

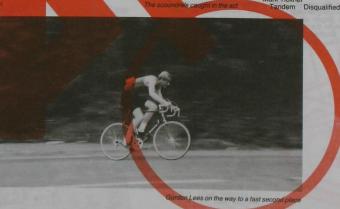
Steve Coates

ADD Bike Race "Tour de Medway" 1987

results for the	he 1907
results for ti	rophy"
Pl. Name/Dept.	
1 Derek Stone	
Eng.	25.51
2 Gordon Lees	26.12
Eng. 3 Jim Beaney	26.12
D/O	28.10
4 Andy Walter	
S/W	28.22
5 Rob Andrews S/W	29.18
6 Guy Gibson	29.10
Eng.	29.22
7 Derek Avey	
M/S Elect	t. 29.28
8 Peter Homann S/W	30.16
9 Paul Davies	30.10
S/W	30.24
10 John Crennell	
Calib. 11 Mike Bloore	30.27
Eng.	30.28
12 Mark Roberts	00.20
Eng.	31.31
13 Andy Baines	
Prod. Eng 14 John Seabrook	g. 32.07
Eng.	33.07
15 Ian Hallett	-
Prod. Eng	33.22
16 Steve Coates	- 00.07
M/S Mech 17 Mark Butcher	n. 33.37
D/O	34.21
18 Mike Massey	
Eng.	34.36
19 Rod Patterson Eng.	34.58
20 Mark Cheesema	
D/O	36.08
21=Charlie Oliver	22.00
Eng.	36.16
21=Mike Sprague Mech Des	36.16
23 Alan Ward	. 00.10
Eng.	36.58
24 Linda Mose	10.00
Eng. 25 Hajinder Bahia	42.30
Eng.	45.25
Geoff Dias	
Eng.	D.N.F.
Dave Haggarty a	uncture)
Malcolm Park	D.N.S.



Derek Stone having received ha



The 'Vickers **Furniture' Prize**

Robert Jennings, Mechanical Technician Apprentice, won an important prize for outstanding achievement in his HTC course in Mechanical and Production Engineering at Mid-Kent College. He is seen here being congratulated by Bert Ives following the presentation by Mrs. Sheila Innex, Chief Executive of the Open College. Bert, who is in Technologist, to study for a degree at Loughborough University on company sponsorship – the course in Schollegt. Bert, who is in Technologist, to study for a degree at Loughborough University on company sponsorship – the course in Schollegt. Bert, who is in Technologist, to study for a degree at Loughborough University on company sponsorship – the course in Schollegt.



Mid-Kent College, Institute of Mechanical & Production Engineers orize winner Robert Jennings with Kent Area Chairman of IPME,

Open Learning — The Way **Forward in Training**

The traditional picture of training is of the short course or on-the-job instruction: Open Learning is a concept which has become recognised and established as an effective method of training in recent years.

The advantage of Open Learning is that the trainee can study at his/her own pace at a time and place of mutual convenience to the company and trainee. The flexible methods of Open Learning such as computer-based training, video-tape packages and workbooks, often coupled with tutorial support, can be tailored to meet the fast changing needs of individuals.

GEC also recognises that Open Learning of the work of the GEC fechnical trainer. The flexible methods of Open Learning such as computer-based training, video-tape packages and workbooks, often coupled with tutorial support, can be tailored to meet the fast changing needs of individuals.

GEC also recognises that Open Learning form to intend the meet the fast changing has defected to establish an on site Open Learning Centre at Rochester. This will be established in this financial year and a will companies, but in addition to this it is looking to establish the facility has been set up.

CHESS PROBLEM

Problem No. 11
White to play
and mate in two moves



Solution to Problem No. 10





Jimmy Green completed 25 years service with the Company in April. Born in Manchester, Jimmy joined the Navy serving as a cheft-le-left the Navy, from a position on the Admiral's staff, in 1954 and settled in Chatham working for CAV.

In April 1962 he joined IND as a wireman. Various projects and divisional re-organisations caused him to be employed by PTE. Airspace Control, ACD, MASD and IND as a prototype wireman often working off site, at such places as West Drayton Air Traffic Control Centre.

Jimmy joined PSD in 1980 to be adopted by the Engineering Department to wire a variety of prototype equipments. It was at New Road that Ian Stitt, Divisional Manager, presented him with a gold watch and the 25 Year Certificate. Chris Humphris, Chief Engineer, then presented an engraved silver tankard on behalf of his friends in PSD. (B)



since he started, and has worked on a great many different contracts, from Blue Steel to Sting Ray. Married with one son, his hobbies are DIY and oil painting. Bob Ruggles gave his best wishes and congratulations on 25 years service. (A)



Derrick Wood, ADD's Manager, Support Equipment is another of several people coming to 25 years, who were originally in Rank Cintel at Sydenham when that company was bought out by Elliotts and became the nucleus of the present Airborne Display Division—its founder members.

Derrick has continued in ADD throughout his service, rising to his present position from Junior Engineer. His wife Maureen has also spent many years in ADD, on the Temporary Pool, and his son Adam is in CMS.

Presentation was by Robin Steight; Derrick is seen here with him and other friends and colleagues.

(A)





Principal Systems
Engineer Clive
Bowles of ADD
Gevice certificate,
and crystal ware
from Chiet Engineer lan Whitehouse.
Another ADD founder member, Clive
has been with
Rank Cintel for
13 years until they
joined Elliotts, and
it was 1966 when he finally arrived at
Rochester. ATED was a port of call for a
short time but most of Clive's time has been
in ADD, on systems work on many projects
from A-7 onwards. And in any spare time
he has been converting an old house near
Staplehurst. (A) Ernie Jacobs, Technical Author in FCD, took up his pen full-time when he became a Technical Writer with TACD in 1969. Prior to that, he had been in the Navy and joined IND in 1962 as Technical Assistant, later moving to







Derek Thompson served his apprenticeship with Gordon Valves, who came into the Elikott Automation fold just as he was finishing, and later moved to Cowdenbeath. Derek then joined FID, and has spent his time at or near drawing board in that Division and later MACD, FCD, CAD and now FCD where he is Checker Draughtsman. Among other interests, Derek follows sports. His 25 year presentation of crystal ware was made by Divisional Manager Brian Tucker. (B)



Brian Walker, who has only been in MASD for about 10 months, received his award from Divisional Manager Laurie Hampson, seen here also with Bran's wife Jean, who is a Buyer in ATED.

Brian started life in the motor trade with his apprenticeship as a fitter; the army took advantage of that during National Service and he became a driver. After that, Brian started in electronics as a Radio/TV repair man, then after a few months at CAV he came into MACD as a Tester. 12 years there followed by 12 years in IND/GSD as Test Endineer. Brian became well known to a great many colleagues in his capacity as ETU Shop Steward and Senior Steward over 10 years.



Jim Fone, Standards Engineer in GSD, came to Rochester after National Service in the RAF, spells with Redition and de Havilland, and 3 years at Elliotts, Boreharnwood. By 1969 Jim was in IND as Modification InDia s Modification Engineer, and has

Engineer, and has been with the build-up of Standards Dept. since 1979. This still gives him time for his hobbies of motorcycles.

Margaret Miligate, Confidential Secretary, is a Lancashire lass who came to Kent in 1962, having worked for de Havilland Propellers, now part of BAe. After an initial week with Fishers 'to help out', she started her proper job as Secretary in AS&RD, first in the Huts then moving to the Flying School. Moving to Gyro in 1965, Margaret started her long association with Alan Essex, who was then DM, and followed the Division's many moves around the site. She is now in Tower 2, where she is seen with her present 3 bosses, (I-r) Derrick Hamlin, Group Technical Executive, Peter Smith, Marketing Liaison Engineer, and Alan Essex, Offset Programmes Manager, who made the presentation. (B)



Ron Hawkins, Senior Environmental Engineer, CQD, seen here with his wife Mary, joined Elliott Automation as a Technical Assistant in the Environmental Test Laboratory and his first work was involved in the Type Approval Testing of the "Lightning" and "Buccaneer Flight Control Systems. In those days the laboratory had remains of RAF occupation; little notices on doors such as "OFFICERS MESS", "CHIEF ENGINEER", and "DARIK ROOM". The car park in the front had a circle of grass in the centre with a flag pote!

When equipment was being designed for aircraft such as the "Harrier" there was a need to use components for which there was no military approval, so Ron found himself in the business of component testing and failure analyses. The Company's penetration into the American market expanded this work considerably to the point that Ron's Section was eventually testing over a million components a year.

Peter Carruthers joined the Company in 1962 as an Inspector, when Tower 1 was the only Tower, and the ground floor walls were mostly carvas and breeze blocks.

After working under Ted Paine for a while he was transferred up to the MACD Production Floor and worked on Roll Units, Gyros and later MK1 Buccaneer Systems. He transferred to Flight Instruments Division when this was formed and remembers well the CSA, HS801 and Jaguar Analogue Computers.

Peter's hobbies include Amateur Radio and building Radio Control Model Aircraft designed in 1938.

Production Manager Fred Wickham is seen here congratulating Peter who is now working in the ISD Goods Inward Department.



Electromagnetic compatibility (EMC) was the next challenge to attract Ron and he has spent the past nine years in this demanding field where his technical skills are greatly appreciated by customer and management alike. (A)



We've had some recent retirements at the same time as, or closely following. 25 year service awards. Not so in this case. **Norman Pearson**, Contracts Manager of AS&RD, completed 25 years some lifteen years ago, and now after over 40 years he has laid down his pen. It was shortly after the war when Norman left the armed forces and started work here as a cost clerk. During the late '50s he ran the accounts department, then in 1961 he transferred to the newly formed AS&RD as budget officer, thence rising to his latest position.

Divisional Manager Mike Barton gave Norman the best wishes of his colleagues and friends.

(B)



10

As foretold last month, "Freddie" Crewe of MASD did receive retirement gifts. These were handed over by Laurie Hampson in the presence of a great many friends and colleagues in the Lounge Bar, who came to say farewell and listen to some of Freddies hilarious and sometimes irreverent reminiscences. (A)



Rose West has been a Viewer in FCD and CACD for the ▶ last 9 years or so, and was given farewell gifts by friends and colleagues some of whom are seen here. Peter Fellows, Superintendent, gave the Company's thanks and best wishes to Rose.

Hugh Scott (Scotty), General Machinist, has retired from CMS. Peter Burrows, Manager, bade Scotty farewell and thanked him for his service to the Company – over 35 (B).





Weddings



Mick Fillon-Payoux, Senior Production Engineer, ISD, married Kasey Ralph on 20 June at St. Matthew's, Wignore. Congratulations on behalf of colleagues came from Paul Robson, Margaret Turner and 'Duke' Ferris to Mick, on right.



Congratulations to **Martin Wray**, CACD Estimator who married Jane Rutherford, District Nurse, on 27 June, at Istead Rise Church, Gravesend.

A presentation was made by Trevor Heyworth, Chief Production Engineer.



Lynn Barrett, last seen in ISD Marketing Dept. or on a sailing boat in mid-channel, has a new crew member for her husband Paul, who works in ATED. Emily was born on 20 June.

orts one club

GAV/BP KENT CLUB SWIMMING SECTION

Royal Life Saving Society (R.L.S.S.)

Bronze Medallion (General)

At the Club Pool on Saturday 20th June the following members passed the R.L.S.S. Bronze Medallion:

Mandy Atkinson Lisa Strike

Paul Hampshall Martin Hunter

Martin Hunter
Ray Newman
Paul, Martin and Ray are also active members of the SubAqua Section which means the Swimming Section has taught
and trained 3 Lifeguards who will be an asset to the Sub-Aqua
Section.

10 out of 10

The Section has submitted 10 entrants for the R.L.S.S. Bronze Medallion — result 10 passes. The R.L.S.S. examiner commended the Section on the high standard of our teaching of Life Saving. The Section's high standards and disciplined, friendly atmosphere owes it all to our teachers, Denise Dutton

Distance Awards

Adults Ian Venables Marilyn Lloyd		metres 2,000 50
Children	Age	metres
Martin Holt	12	7,500
James Marshall	13	7,500
Christopher Barton	13	1,000
Samantha Kennett	13	600
Helen Barton	10	200
Lloyd Smith	6	10
Aaron Smith	4	10
Nicholas Llovd	5	10
Anthony Lloyd	4	10

A.S.A. Swimming Skills

Grades 1 & 2

MONDAY	8.15-9.30 pm	Adult Lessons: Beginners & Improvers
TUESDAY	6.00 – 6.45 pm 6.45 – 7.30 pm 7.30 – 9.00 pm	Childrens' Lessons. Beginners 1 & 2 Childrens' Lessons: Intermediate Improvers & Squad Training
THURSDAY	5.15-6.00 pm	Mother & Baby Classes: Children from 4 months to 5 years
	6.00-6.45 pm 6.45-7.30 pm	Childrens' Lessons: Beginners 1 & 2 Childrens' Lessons: Intermediate
	7.30-9.00 pm	Improvers & Squad Training
FRIDAY	8.15-9.15 pm 8.30-9.30 pm	Personal Survival/Life Saving - Children Personal Survival/Life Saving - Adults
SATURDAY	1.15-3.45 pm	Distance Awards: Children & Adults approx. every 3 months Inter Club Galas 7 per year
SUNDAY	1.15-3.45 pm	Squad Training

Blackwater '87 - "A close run thing"

Blackwater '87

MSC had won the second race by the narrow margin of 54 to 55%. Overall Rochester won 10 to 10 to

Grenoble hospital by helicopter for an emergency operation. He then spent several weeks in Stoke Mandeville whilst his back healed and movement returned to his legs. He still has a plate in his back but has recovered so well that he can now take part in the fairly energetic sport of dinghy sailing with no ill effects.

This year the GAV BP Sailing Club has donated the splendid Medway Cup for the winning team. Joan Stone presented the Medway Cup to the Rochester team, and the Colwyn Stone Trophy to Richard.

the Colwyn Stone Trophy to Richard. Next year we need more help if we are to fight off the MSC challenge. Why not join us and enjoy a fine day out.

friendly and admirably achieves the purpose of the visit, namely to foster contacts between the sites.

Gordon Belcher

RESULTS

GAv(R)	Boat	1st Race	2nd Race	Overall
R&SStone	Wayfarer	4	3/4	43/4
SLord & POrford	Fireball	11	16	27
PJBelcher	Laser	3	2	5
G Belcher	Laser	6	9	15
M&P Chapman	Enterprise	12	10	22
M Chapman	Topper	13	12	25
P&M Fitzgerald	Condor	2	6	8

MSC	Boat	1st Race	2nd Race	Overall
D&L Boreham	Mirror	14	7	21
M&M Boreham	420	10	11	21
T Milton & T Duck- manton	Stampede	3/4	4	434
DWebb	Laser	5	5	10
R Greygoose	Solo	7	3	10
CWillsmore	Solo	8	8	16
S Evans & D Cohen	Enterprise	9	16	25

Overall - GAv (Rochester) 106¾ MSC 107¾



AUGUST

PARLOUR DERBY (8 films) Saturday 22nd August 8.00 pm

Music in the Bar

"Cockney Pride" Duo

Friday 28th August 8.00 pm

BANK HOLIDAY DANCES

Saturday 29th August 7.45 – 11.45 "SPIRAL"

"MESCALERO"

Monday 31st August 8.00 – 11.00

SEPTEMBER

A+A DISCO UNDER 16's Friday 4th September 7 – 10 pm

DANCE

with "PEBBLE MILL" "MESCALERO"

Saturday 5th September 7.15 – 11.15

Friday 11th September

INDOOR GAMES LEAGUE EVENING Guest

Cliff Lazarenko 8 – 11.30 Tickets £1.00 from Committee Members

SHANGHAI DANCE **ORCHESTRA**

DANCE WITH

Saturday 19th September 7.45 – 11.45

Inter Divisional Awards Night

Cricket - Football -Bat and Trap Friday 25th September

> "CHASE" Bar till 11.30

Saturday 26th September "SPIRAL" 7.45 - 11.45

AND DON'T FORGET - OVER 50's **EVENING** Saturday 31st October

"HAPPY DAZE" 21

Reaper Club

The June meeting of the Reaper Club was held as usual in the Works Canteen, armidst all the rebuilding and refurbishing taking place. A goodly number were present, and the usual roil of honour was read, detailing the Birthdays and Wedding Anniversaries. There was ene Golden Wedding being celebrated and the usual proil of the programme of musical honours were given. The entertainment was a programme of music by the Works Band, under its new director Mr. Fred Clarke. It was a mixture of tunes, which was a delight to listen to. The audience showed its deep appreciation of the programme by the heavy, long and sustained applause. Last call for names of those wishing to go to Eastbourne in July was made.

The July meeting was affected somewhat by the stormy weather. The Roll of Honour revealed that Mr. & Mrs. William (Darkie) Hobson, were celebrating their Golden Wedding, The President presented the Club gift, and the whole company joined in the musical honours.

The billed entertainment of Surprise! Surprise! turned

Crossword No. 85

For amusement only

ACROSS

- 1. Recorded as the final utterance. (6-4-5)
- 8. Realistically clean. (8)
- 9. Otherwise archers. (6)
- 11. Children often are MPS with I. (4)
- 12. A modern material, strong but light. (5-5)
- 13. A panorama, or near sights and opinions. (5) 15. Description of one, having been through the courts. (8)
- 19. Between acts or events.
- 20. Don't drop it, may cause mayhem. (5)

- 23. A national pastime of old Tibet. (4-6)
- 25. Apply it to yourself, mind or actions. (4)
- 27. Nasty small insect with antennas. (6)
- 28. Is it a fruit or vegetable? Try salad. (8)
- 29. What the gunner tries to hit bang. (6-9)

DOWN

- An ancient find when excavating. (6)
- Topic for anxious discussion in old town halls.
 (4-5)
- 3. Opposite of beauty. (4)

- 4. Who the song writer says he loves Scotch. (6)

- 6. South American graduate dance. (5)
- 7. Implies evil connotations. (8)
- 10. Teach, instruct or travel mode. (5)
- 14. Decisions of conflict emanate here. (3-6)
- 16. Was he killed by a sparrow? (4-5)
- sparrow? (4-5)

 17. Prescription to end down in the mouth feeling. (4-2-2)
- 18. The whirl of outer bud case. (5)
- 21. Mute part of honour, or its lack. (6)

- 22. Real good sports, male or female. (6)
- 24.... a tantrum, or toss it away. (5)

Solution to Crossword No. 84

Across
1. Cinque Ports; 9. Resin; 10. Conqueror; 11. Ahoyl; 12. Zinc;
13. Drank; 15. Unknown; 16. Albumen; 17. Yelling; 20. Tanyton; 22. Okapi; 23. Rair; 24. Mealouting, 27. Boers; 28.

Down
1. Cassock; 2. Nine; 3. Unction
4. Panacea; 5. Round about; 6
Sarcasm; 7. Treasury notes; 8
Broken English; 14. Solicitude
18. Leaders; 19. Garnish, 20
Thinner; 21. Theseus; 25. Able.

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

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