

MARCONI AVIONICS NEWS

House Journal of Marconi Avionics Limited

MOTTO FOR THE MONTH
"Feare is more paine than is the paine it feares".

Sir Arnold Weinstock

On behalf of all members of Marconi Avionics Limited, our Managing Director, J. E. Pateman C.B.E., has sent congratulations to Sir Arnold Weinstock on the occasion of his elevation to the Peerage, gazetted in the Queen's birthday honours list.

A reply has been received from Sir Arnold thanking everyone for their congratulations and extending good wishes for the continued success of MAv Ltd.



NATURAL UNDERWATER COLOUR FROM MARCONI AVIONICS NEW TELEVISION SYSTEM

A new design of underwater television camera system, with which scenes can be monitored in natural colour, is now available from Marconi Avionics Limited. In the new VF 1000 camera system, the latest types of analogue, digital and integrated circuits are used for portraying, correctly, colours which would otherwise be obscured in sea water.

Developed by the Company's Electro-Optical Advanced Systems Division at Basildon, the VF 1000 is of particular value in the remote inspection of undersea structures and ships' hulls, where colour can reveal information vital to their safe maintenance. The growing number of offshore oil rigs and subsea well structures, and the use of television for the regular inspection of vessels of all kinds, indicate an immediate need for a television camera of this kind.

Fully proven in undersea trials, the VF 1000 has been tested to a depth of 610m (2000 ft) and has a working value of 305m (1000 ft), more than twice the greatest depth encountered in the North Sea. The system comprises a colour camera in a special cylindrical housing, 235mm (9in) diameter by 532mm (21in) long, cables, detachable lights and a remote monitor, which also comprises the camera control unit.

The great resolution of the 'tri-stimulus' camera sensor, (three high-reliability camera tubes, combined into a single preadjusted unit), and its consequent sensitivity, enable more extensive processing of the picture to be carried out, restoring the colour fidelity without loss of definition. In the VF 1000 system, the low noise content of the signal enables this to be done more effectively, to give the correct frequency (and hence colour) response.

The anodised aluminium housing is made to a similar specification to that used in the manufacture of naval torpedoes. The camera can be equipped with an adjustable handle, for use by a diver, or with a pan and tilt attachment, for remote control.

The photograph shows the system's designer, himself a sports diver, with the camera, the principal element in the VF 1000 system. Doug Howick, 54, is Principal Technologist in Marconi Avionics specialist Electro-Optical Advanced Systems Division at Basildon, Essex. He joined the Company in 1942 and has worked with TV systems since 1953, specializing in underwater television since 1961. An active supporter of the Mary Rose preservation project, for which Marconi Avionics Limited has consigned underwater television equipment, he plans to dive on the Tudor ship during his summer holiday — with his new 'natural colour' camera. Doug Howick lives at Great Waltham, Chelmsford with his wife, Peggy Frances, and one daughter. They also have three married daughters

ELLIOTT PHOTOGRAPHIC SOCIETY MEMBER'S SUCCESS

A notable success has recently been achieved by amateur photographer Mr. Trevor Brice, an Engineer in Gyro Division. He has been awarded the Licentiate-ship (LRPS) of The Royal Photographic Society of Great Britain.

The RPS is the oldest and most prestigious photographic society in the world and to promote and maintain high photographic standards is just one of the many varied activities for which it has long been recognized. The awarding of distinctions is its chief way of doing this and, because membership of the Society is open to photographers of every kind, professional and amateur, those distinctions are universally respected. In order to gain an RPS distinction a photographer has by the submission of work to prove to a highly qualified panel of judges that he has achieved the required standard.

Mr. Brice has been a member of the Elliott Photographic Society for 10 years and has served as Secretary and Chairman. He attributes a great deal of the credit for his success to being a member of a camera club where ideas can be exchanged with other keen photographers. Perhaps other local photographers may be encouraged to emulate his achievement!



Trevor Brice



Aylesford reflections — one of the photographs submitted by Mr. Brice

Marconi Avionics now expands into Milton Keynes

Company's continuing growth in orders and jobs

Marconi Avionics Limited has now chosen Milton Keynes as the location for part of its future expansion. This month, the Company's Airborne Radar Systems Division, which is responsible for the world-leading radar for the RAF's new Air Defence Fighter, the TORNADO F2, is moving to a modern factory in Linford Wood.

According to Peter Mariner, Marconi Avionics Assistant Managing Director, the move will bring an early build-up to 350 to 400 staff, with scope for further growth in the future.

The move is planned to start in June and to build up steadily thereafter. As well as moving present employees from the South Hertfordshire area, the Company will be recruiting engineers and scientists from all over the country. The ready availability of a variety of modern housing in the area, as well as some older properties, will be a particular attraction to prospective staff.

Marconi Avionics will also create local opportunities for technician, design, draughting, administration, clerical and secretarial staff, whose work will support the activities of the development engineering teams.

COLOURING COMPETITION

November 1979

This competition attracted a very good entry in all three classes, the standard being very high.

The judges had considerable difficulty in deciding the winners and it has been necessary to have extra adjudications to break the deadlock. Because of the high standards, it has been decided to award three prizes in each class and vouchers of £3.00, £1.50 and £1.00 have been awarded.

We congratulate the winners and, at the same time, thank all who submitted entries, especially the ones from America, and trust that in any future competition they may be more successful.

The prize winners are:

Class I
 1st Emma Hogan aged 6 years Father in Gyro Div.
 2nd Andrew Collyer aged 5 years Father in AS & RD
 3rd Keith Fullager aged 6 years Father in MASD

Class II
 1st John Milham aged 9 years Mother in FCD Tech. Pubs.
 2nd Joanne Mullen aged 9 years Parent in PSD
 3rd Tracy Cashen aged 8 years Father in FCD Wiring

Class III
 1st Susan Cashen aged 13 years Father in FCD Wiring
 2nd Nina Milham aged 12 years Mother in FCD Tech Pubs.
 3rd Tina Baston aged 14 years Father in FCD Model Shop.

OBITUARY

Mr. regret to record the death of Mrs. Cissie (Chris) Burke on 31 May, after a long illness. She was a former member of the Aviation and MAC Divisions.

CASTAWAY



Our castaway this month is Maurice Hodge, Sales Officer of ISD. He has been with the Company for 11 years and is a person of deep understanding and friendliness. His choice of music and books is as follows:

Music

- BBC Sound Effects (planes, trains, motor cars etc.) - whenever I feel like getting back to civilization I can play this record and I will appreciate the peace and quiet of a desert island.
- Band of the Royal Marines (World on the March) - Childhood memories of Sunday morning visits to the Melville Barracks, Chatham, to watch the R. M. Band, waiting for the Drum Major to drop the mace - he never did!
- Carol Symphony - As Christmas may be spent on the island, this record will set the right atmosphere.
- Carpenters Singles - The smooth silky voice of Karen will be a fine companion always sounding so fresh.
- Sir Henry Woods Traditional Arrangement of British Sea Shanties - To recall the atmosphere of the last night at the Proms, with the banners, flags and hoards of people bobbing up and down.
- Pastoral Symphony by Beethoven - For tranquility, comfort and elevation.

Books

- Palm Tree Island - Giving much useful information on how to improvise and survive on a desert island.
- Christmas Carol by Charles Dickens - Together with record 3, this will add to the spirit of Christmas and is enjoyable reading.
- Tropical Plants - Hoping to obtain sufficient information to identify plants for the purpose of fruit and vegetables.

What people do when they are away

It is surprising the things people do when they are away from their usual environment, they tend to let their hair down.

The camera caught a well known member of FCD/CACD in an unaccustomed role. Was it bravado, or just showing how it should be done?

We are glad to report however that though the bull was goaded the attacker got safely away - he was seen smiling in the Department; perhaps his thoughts were in Spain!



Marriages

Beverly Morant of ISD was married to David Golding, Draughtsman in MASD, on Saturday 24 May, at Holy Trinity Church, Twydall, Gillingham.

Our photograph shows the happy pair with some of the gifts presented to them by their colleagues and friends.

Kitchen Kapers

LAMB KEBABS

Ingredients:

1 1/2 lb leg of lamb
 6 tablespoons oil
 2 tablespoons lemon juice
 1 teaspoon oregano or marjoram
 salt and pepper

Marinate the lamb cubes before grilling with small tomatoes, par-boiled onions and green and red peppers.

Method: Cut the lamb into 2 inch cubes. Mix the oil, lemon juice and oregano, add salt and pepper. Marinate the lamb cubes in the sauce for several hours. Thread the cubes on to skewers with the vegetables and grill for 15 - 20 minutes.

BAKEWELL TART

A pastry base with raspberry jam and an almond mixture on top.

Ingredients:

Shortcrust pastry
 Raspberry jam
 4 eggs
 4oz sugar
 4oz salted butter
 4oz ground almonds

Method: Line an 8 inch flan ring, set on a baking tray, with shortcrust pastry and spread a thin layer of jam over the base. Beat the eggs with the sugar and melt, gradually beat in the butter, fold in the almonds and spoon the mixture over the layer of jam.
 Bake at 400° F (gas mark 6) for 35 minutes.

DO YOU KNOW?

FISH

Largest marine fish

The largest species of fish is the whale-shark first discovered off Cape Town, South Africa, in 1828. It is not, however, the largest aquatic animal, since it is smaller than the larger species of whales, which are mammals.

A whale-shark measuring 53ft long and weighing about 31.3 tons was washed ashore in Kommetjie Bay, Cape Province, South Africa in 1934. Another specimen, caught in a bamboo fish trap at Koh Chik, in the Gulf of Siam in 1919 was stated to have measured 60ft, but further details are lacking. A 60ft whale-shark would weigh about 45 tons.

Largest freshwater fish

The largest fish which spends its whole life in fresh water is the spoon-bill sturgeon, also known as the Chinese paddle-fish, found in the large rivers of China. Lengths up to 23ft have been reported, and a specimen weighing 1600lb was taken in Huang (Yellow) River in 1927.

Largest fish in British waters

The largest bony, or 'true' fish found in British waters is the common sun-fish, also known as the ocean sun-fish, which grows up to 10ft long and weighs more than a ton!

Largest freshwater fish in Britain

By far the largest of British freshwater fish is the common sturgeon. The heaviest recorded specimen was a female weighing 460lb taken in the River Esk, Yorkshire, in 1810.

Fastest

The Atlantic sailfish is generally considered to be the fastest species of fish, although the practical difficulties of measurement make data extremely difficult to secure. A figure of 68 mph (100 yds in 3 seconds) has been cited for one off Florida, USA. The other species of spearfish, including the Pacific sailfish and the marlins are believed to be almost equally fast. A maximum of 57.6 mph has been calculated for a swordfish from a penetration of 22in by a bill into hardwood, but 35-40 mph is the most conceded by some experts. The Mako shark may be even faster, since the flesh of the swordfish has been found in the stomachs of captured specimens, speeds in excess of 40 mph have also been attributed to the wahoo and the tuna.

Group Saving Scheme

As at 1 June 1980, we had a total of 454 employees who are saving with the Halifax Building Society through this special scheme, made up of:

MAV & Acc.	31	ADD	81	MASD	44
Works Eng.	5	AS&R	18	CMS	6
ATE	49	EDP	4	FARL	8
CDD	1	GYRO	17	IND	16
FCD	25	CAC	39	ISD	29
PSD	9	Nalissa	3	ISD	29
Personnel Services, inc. apprentices 69					

Employees interested in joining the scheme, or revising their savings investment payments deducted from wages and paid over to the Halifax are advised to contact John Neate, Personnel Officer (int. 203, ext. 447).



Marconi Avionics makes top personnel appointment

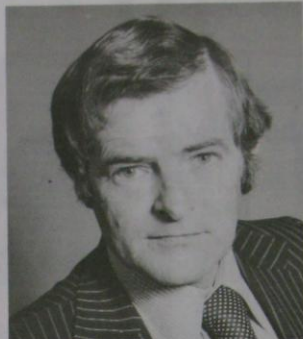
E.J. Bradley is promoted Company Personnel Manager

Marconi Avionics Limited has made a new appointment at the head of its Personnel organization. Mr. E.J. Bradley, MIPM, formerly Personnel Manager of the Rochester establishment of 5,400 people, is now appointed Company Personnel Manager, with responsibilities towards an 11,000-strong workforce, at mid Kent, Herefordshire, Baddow, Stanmore, Avon and Northants factories.

The new appointment underlines the importance of co-ordinating the personnel management function in a fast-developing industry. John Bradley, who remains administratively responsible for the Personnel Department at Rochester, now has professional responsibilities for the activities of all establishments of Marconi Avionics Limited, and will co-ordinate and approve personnel policy.

Whereas personnel management once involved little more than industrial relations, this is nowadays far from the case, where high-technology industry is concerned. The great demand for personal skills now makes training, at every level, the most important activity. Indeed, more than 10% of the Company's entire work force is undergoing formal training at any given instant.

The success achieved in building a balanced Personnel team, which is qualified in training, recruitment, industrial relations, salary administration and welfare, is a reflection of the high standards, of personnel management developed in the Company as a whole, and which are vital to its continued expansion.



John Bradley

John Bradley, who has served as Chairman of the Midway Institute of Personnel Management, and as Vice-Chairman of the Kent and South-East England Institute, began his industrial career in 1955 on the shop floor and was a member of the AUEW. He entered industry after war-time schooling and a period of National Service in the RAF. He gained practical experience in industrial relations at the age of 21 as Chairman of Shop Stewards, and as Chairman of an inter-union committee in a 2,000 strong company, in South Wales.

Studies at night school led to an ONC in Business Studies and a greater interest in labour relations. A foreman at 24, he later became a production controller, with responsibilities for purchasing. His first appointment as a Personnel Officer came in 1964, after his original company had become part of Elliott Automation. He was appointed Personnel Officer, at Rochester, two years later and, after serving for a period with another company in the same group, returned to Rochester in 1969 with responsibility for production employees.

He was appointed Manager, Personnel Services, in 1970 and became Personnel Manager for the Company's Rochester Establishment (now Marconi Avionics Limited), in 1976.

John Bradley lives at Herne Bay, with his wife Ann and twin two year old daughters, Alison and Claire. His hobbies include a life-long interest in sport including rugby, cricket, soccer and boxing.

His total period of service with companies within GEC has totalled 25 years, and to mark this milestone he was presented with his gift of a clock by Mr. Alexander John says he looks upon himself as an example of the Company practice of promotions and training from within.

Appointments

Mr. M. Meakin has been appointed Production Manager, Powerplant Systems Division, with immediate effect.

Consequent upon Mr. M. Meakin's appointment as Production Manager, Powerplant Systems Division, we have much pleasure in announcing the appointment of Mr. R. Eves as Production Manager, Airborne Display Division.

We announce the appointment of Mr. G. Moorcroft as Head of Technical Publications, ATED. Mr. Moorcroft will be responsible to the Engineering Services Manager. Further to this appointment, Mr. L. Budge will resume his responsibilities for both Technical Publications Department and Drawing Office as Engineering Services Manager, ATED.

We have pleasure in announcing the appointment of Mr. C. Cornell to the position of Engineering Manager - Computing Facilities, ATE Division. Mr. Cornell will be responsible for the Chief Engineer for the Division's computer facilities and the Digital Card Test Program Generation Bureau Service.

Suggestion Scheme

This month Mr. P. Huckstep took over from Mr. T. O'bray as the Shop Floor representative on the Committee. Mr Huckstep is a Model Shop employee within Instrument Systems Division.

The Committee was pleased with the response in the number of suggestions submitted during the last month and have now placed additional entry forms with Divisional Administrative Officers to give a further source to employees.

The latest award winners are:

Mr. D. Harvey of AS&R for his suggestion concerning interface unit (I.F.U.) motherboard.

Messrs J. Latter and T.D. Vaisey, apprentices of our Training Department for their suggestion concerning time and paperwork routines in the Q.A. Department of ADD.

Mr. A. James of ISD for his suggestion concerning the efficiency of gear assemblies in computer and other modules in ISD.

Mr. R. Robinson of Gyro Division for his suggestion concerning the time taken on fault finding and re-testing instruments on C.S.U. sensor test set.

Mr. E.T. Neilson of IND for his suggestion concerning the serialization of rear covers on P.M.D. units in IND.

John Naeate of the Personnel Department (Int. 203, ext. 447) would welcome your suggestions.

They also serve ...

Flight Lieutenant Fred Chapman, Officer Commanding 1039 (Gillingham) Squadron Air Training Corps, has been selected from RAFVR (T) officers in the United Kingdom, to go to Sweden as a guest of the Royal Swedish Air Force in July and August of this year as part of an exchange scheme.

Senior air cadets over the age of 18 are selected under an International Air Cadet Scheme each year and together with other member countries in the scheme visit Europe, Canada, the USA, Hong Kong and Sweden.

Last summer, Flight Lieutenant Chapman hosted foreign cadets during their London tour and this year it is his turn to escort ATC cadets from the UK to Sweden. They will fly to Germany where they will join up with American and Canadian cadets before proceeding on a three week tour.

Flight Lieutenant Chapman, who is 42, served for 14 years as a regular in the Royal Air Force before being commissioned in the RAFVR (Training) Branch. He was appointed Commanding Officer of 1039 (Gillingham) Squadron ATC in 1977 and has served with that unit for 10 years.

He is married with one son and lives in Walderslade. In his civilian capacity he is employed by Marconi Avionics as a Project Controller. Fred first joined the Company in 1969, in ADD and after a short break, rejoined in 1972 within ATE Division, and is now the Project Controller on TORNADO (D & D) Contract, located at Gads Hill.

Marconi Avionics puts emphasis on sensors at Rotterdam International Naval Show

ADVANCED SYSTEMS FOR VESSELS, MISSILES AND HELICOPTERS.

Marconi Avionics Limited put emphasis on sensor systems at this year's Rotterdam Naval Expo. Ranging from sub-miniature gyroscopes, for missiles, to complete acoustic processing and display system, for ASW helicopters, the Company's capabilities cover, quite literally, a very wide waterfront.

LAPADS - LIGHTWEIGHT ASW ACOUSTICS SYSTEM

The equipment on show is a version of the system ordered for installation in helicopters of the Royal Navy. Comprising the airborne equipment needed to receive, process and analyse data from free sonobuoys and to detect, identify and locate submarines, it can be fitted in a great variety of rotary or fixed wing patrol aircraft. A paper on LAPADS was presented at the symposium by L. Hampson, Marketing Executive in the Company's Maritime Aircraft Systems Division.

SUB-MINIATURE GYROSCOPES

At the heart of the guidance and control systems of torpedoes and other missiles lie sub-miniature precision rate gyroscopes, some of the most widely-used of which were exhibited.

GR-H4 rate gyro, airborne applications of which include SEA DART and UK MARTEL missiles, the SEA HARRIER auto-pilot and HOVERMARE air cushion craft.

SUPERGYRO rate gyro which is at the heart of the guidance system for the STING RAY air-launched torpedo. This gyro has built-in self-testing capabilities.

G1-G6 advanced torque-rebalance rate gyro, which Marconi Avionics Gyro Division is to manufacture, under licence from Northrop Corporation. Under the agreement, Marconi Avionics can sell the gyros to most European NATO countries and can supply systems, based on the G1-G6, to many countries in the world.

ATTITUDE GYROSCOPES

Two-degree-of-freedom gyroscopes, manufactured to AUWE design, are also an exhibit. The torpedo Roll and Azimuth gyros are part of the guidance system of Britain's highly successful production torpedo, the Mk 24.

STRAPDOWN SENSORS

The 'strapdown' Control Sensors Unit for the STING RAY air-launch torpedo, comprises an orthogonal system of rate gyros, mounted rigidly to the torpedo, instead of being mounted on gimbals. The arrangement, pioneered in Europe by Marconi Avionics and now widely adopted, provides a low-cost, lightweight sensor which can well survive the harsh ambient conditions encountered by an air-launched missile.

GYRO COMPASS SYSTEM

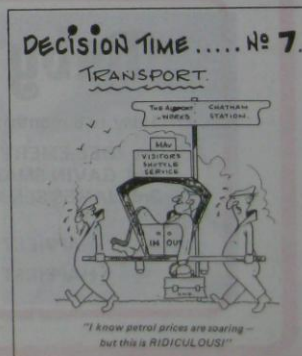
The NCS-1 naval compass stabilizer, already in service with two naval forces is continuing to attract interest from the world's navies.

Apprentice activity

The Apprentices completing their Agreements in July and the divisional allocations are as follows:

M.J. McCarthy	CMS
N.B. Miles	FARL T/A
P.A. Norman	PSD Eng. T/A
K.L. Pragas	FCD Test

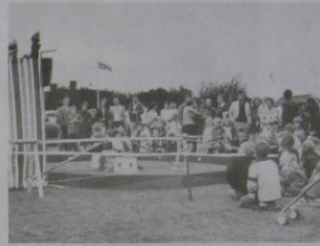
Our congratulations are extended to them with best wishes for a long and distinguished service applying their skills and knowledge to our mutual satisfaction.



ANNUAL



German shepherd dog display.



Punch and Judy show.



Trying out archery.



On the trampoline.



The winners of the ladies and gents three-legged race.



The winners of the egg throwing competition.



The winner of the mens sack race.



2nd in the sack race.



3rd in the sack race.

Baby show results

1 day to 8 months:

1st DEE EMERY
2nd GAVIN SMALL
3rd JAMES SENARD

9 months to 18 months:

1st PAULA TILLING
2nd NICHOLAS CRIMMEN
3rd NICOLA SEAREE

HAPPIEST BOY — JONATHAN EVANS
HAPPIEST GIRL — CLARE THORNDICK



Nicholas Crimmen.

www.rochesteravionicarchives.co.uk

FETE DAY



Egg throwing.



Ian and Denise - winners of the fancy dress competition.

Some of the prizewinners of the boys and girls races



Paula Tilling.



Clare Thorndick.



Jonathan Evans.



Dee Emery.



Gavin Small.



James Senard.

25 YEARS' SERVICE



Bill Ecob

In February 1980 Mr. D. G. Thomas, General Manager, made a presentation to Bill Ecob, Commercial Manager AS&RD upon the completion of 25 years' service with the Company. Compliments were exchanged and Bill Ecob thanked all the members of his personal staff and the whole Division for assisting him over the many years during which the Division has grown to significance.

Bill Ecob has spent most of his working life in the aircraft industry, broken only by undistinguished careers in the RAF and Navy during the war.

He concluded his response to Mr. Thomas by offering an amnesty to all his colleagues who have daggers lodged in his back.

It may be of interest to all our readers that he has never been reported for bad behaviour.

After commencing an engineering career as a dockyard apprentice and progressing through various facets of the industry, John Charles Barton finally settled for 25 years with the Company.

The genial and well known John came into the Company by way of Aviation Division working on Cylinder Test Rigs in Fuel Flow. He then joined Naval Weapons as a Test Engineer and later went into the Drawing Office and remained in Fuse Division on the split between Frimley and Rochester.

From Fuse Division, he became a member of TAC and went to Borehamwood to join Aero Space, then Airborne Computers, returning to Rochester where the Division became Maritime Aircraft Systems Division. He is still in the Drawing Office as Section Leader.

His wide variety of interests cover philately, gardening, amateur theatricals – he is a well known vocalist, and sculpting.

As a church warden at St. Luke's Church, Gillingham, he has an outlet for his many talents.

It is of particular note that in philately he specializes in Pitcairn Island issues and all postal history. His wife is also a Company employee.

The gift chosen to mark the 25 years was a clock which Mr. P. Hayner presented on behalf of the Company.

John Charles Barton



Mr. R. F. Hopkins (A)

Mr. R. F. Hopkins joined the Company in May 1955 starting work in the old Aviation Division as a Tester in the Fuel Flow Laboratory. After some time in this capacity he became an Inspector. His progress to Leading Hand saw him do valuable work on the Mk.13 and OR 946 projects. During this time he became known as the Gasanova of the tea room.

Shortly after MAC Division was formed he was made Inspection Foreman, a position he held for many years. Twelve years ago he became Calibration Engineer, the position he has held with MAC, FCD and now CACD. Although officially listed as Calibration Engineer Ron has on many occasions done valuable work for the Company – as an outside rep. he has fried at Holme-on-Spalding Moore – frozen at RAE Llanbedr, gone thirty at Kingston and had Christmas lunch at Dunsfold.

During his time as Calibration Engineer he has been responsible for training dozens of apprentices. It is a tribute to him that all without exception come back to visit him after their period of training had finished.

Ron is knowledgeable on most subjects. His main topics being motor-bikes and gardening. In his younger days, a certain Production Manager by the name of Harrison wore – you could hear Ron three minutes before you saw him.

He's quieter now, but still vociferous, calls a spade a spade. A good man to have around and as he is known in the department a procurer without equal.



H. R. Bristow

H. R. Bristow, one of our Assistant General Managers, has completed 25 years' service and received a clock to mark the occasion.

A native of Wiltshire, educated at Gillingham Grammar School (Dorset), he had early leanings towards aviation making model aircraft, short wave radio (but never was a 'ham'), membership of the school ATC Squadron and aircraft spotting at such places as Yeovilton, Boscombe Down, Old Sarum, etc.

After school he served in REME, in the UK and Middle East. On demobilization he went to University College, Southampton, reading electronics. While at University he trained as a pilot and joined the RAF VR.

He came to Elliotts, Borehamwood, originally in 1951 to work in the Circuits Division. A period of service with STC, designing VHF and UHF radio equipment for aircraft followed before returning to Elliotts in 1955 as an engineer in Aviation Division, engaged in assessing suitability of transistors for aircraft equipment, which led to designs for Lightning, Buccaneer and Blue Steel projects, and was appointed Electronics Project Leader on Blue Steel.

In 1959 he moved to Inertial Navigation Division and became Chief Development Engineer. In 1960, 1961 appointed Divisional Manager, Precision Test Equipment (PTE) at Borehamwood; he came to Rochester when the Division transferred in 1965.

Changes and amalgamations took place in 1966 and he continued as Divisional Manager of FSED incorporating PTE and the old ATE. Further changes took place and the name of the Division became Data Analysis and Display in 1967. With the growth of Automatic Test Equipment and Airborne Display, the Divisions were separated and Ron Bristow took over the Automatic Test Equipment (ATE) as Divisional Manager. In 1972 he was appointed to his present post, retaining responsibility for Tornado ATE. Now greatly involved in overseas business activity, he travels extensively for the Company and recently included China in his 'repertoire'.

He is married, with two sons, having met his wife at Southampton University, where she read history. Mrs. Bristow is also a lady of many parts, being a local Magistrate and School Governor. Of the sons, one is still at school in Maidstone, and the elder one is reading Physics at Southampton University. As befits the man, he is a fellow of the Institution of Electrical and Radio Engineers and has served on the Institution Committee, as well as being a founder member of the Kent Section.

His hobbies cover a wide field too, such as industrial archeology, (with KCC, Maidstone Museum and Royal Engineers' help, salvaged the machinery of a 18th Century chemical mill from the centre of Maidstone, for eventual re-erection), early scientific instruments and history of engineering and science, sailing, reading, some skiing, DIY and photography.

RETIREMENTS



Joe Willans

The Senior Buyer of AS&R, in the person of Joe Willans, has retired after a total of 50 years in industry.

A native of Newcastle-on-Tyne, he came to the Medway Towns as a boy when his father, a pattern maker, came to Rochester. He began his career as an office boy with Short Bros. in 1930 and remained with them until 1946, except for four years with the RAF where he saw service in India.

In December 1946 Joe joined Swift and Swallow and became a buyer in the Central Purchasing Dept. of Elliott Bros. August 1965 he transferred to Aviation Service and Repair Division as a buyer and remained with the Division until his retirement.

Mr. Andrews, the Supplies Manager of AS&R, on behalf of all colleagues and friends in the Company, presented him with a portable television set and other items, and wished him a long and happy retirement.

A genial personality, and deeply conscientious, he is held in the highest esteem, by all who know him, including the suppliers and sub-contractors with whom he was in contact. A man of complete honesty and integrity, yet with a great sense of humour, he will be greatly missed, but he leaves a memory to be cherished. He enjoyed the jokes of his colleagues, as they presented him with a fan belt and gardening tools, knowing full well he is no mechanic or horticulturist, even though he has bought a greenhouse – a small one – to practise with.

He hopes to spend a lot of time with his hobby of printing, but not as the cartoon on his retirement card would lead us to think.



Bert Mulford (A)

A. C. Mulford, of CAC Division has laid aside his work-a-day worries by retiring on 21 May.

A quiet unassuming person, with a zeal for hard work and efficiency he will be long remembered by the many fellow employees with whom he came in contact.

His industrial career is almost like a record of the industry of the Medway Towns itself; having worked with Shorts and Aveling Porter before joining the Army. Returning to civilian life, he joined Morrisons, before moving up the road to Swift and Swallow, where his duties covered making out and proving castings for machining. He then joined the Inspection Department, under Joe Rose, and on the formation of Aviation Division went into the View Room in charge. He has continued his alliance with Inspection ever since doing RD Inspection on TSR2. Promoted to be Asst. Chief Inspector in MAC, Bert continued in the position as the Division changed to FCD and latterly CAC.

He is a Deacon of Borstal Baptist Church, and was for 12 years the Secretary, when it was known as Borstal Free Church. Bert likes making things – working with his hands – and gardening. Married, he and his wife have two married daughters. One lives in Wembley and the other has lived in New Zealand since 1961.

The retirement has given them the chance to go down under, which they propose to do in November. Suitable gifts to mark the occasion were presented on behalf of his many friends and colleagues by Mr. J. F. Smith, Production Manager, CAC Division.

Leaving for pastures new



Mr. Burrows presenting the gift to Mrs. Joan Stabler (B)

Recently, Mrs. Joan Stabler left the Company to take up residence in Norfolk. She had spent some 10 years as an Industrial Nurse, but not all of them at Marconi. As one of the team of Nurses who 'manned' the Tower's surgery, she became well known to many employees and on behalf of all the friends in the Company she was presented with a farewell gift and flowers by Mr. P. Burrows of CMS.

It will be of interest to her many friends to know that she has returned to nursing, and is at Wayland Hospital, a hospital for chronic sick, where she tells us they have a youngster of a mere 93 years old, who in spite of stiff bones is a real tonic.

We are asked to pass on her kind regards to all and this we gladly do.

Modern Chatham

.....continued

THE RECREATION GROUND is one of the pleasant experiences of Chatham. The Recreation Ground surrounds Fort Pitt, a structure erected here for defensive purposes in the beginning of the present century, but which was afterwards converted into a girls school for which it is now used. It was here that Her Majesty came to visit the wounded soldiers from the Russian Campaign. The grounds are well laid out, and command beautiful views.

THE MEMORIAL ARCH has also reminiscences of the Russian War, and contains the name of every officer and soldier who fell in the Crimea. The foundation stone was laid by H.R.H. the Duke of Cambridge in 1860, and the structure is deservedly regarded as one of the ornaments of the borough.

THE GORDON MEMORIAL, which, like the previous memorial, was erected by the corps of Royal Engineers, represents General Gordon mounted on a camel. The work is in bronze, and was unveiled by H.R.H. the Prince of Wales in 1890.

Another structure of a similar character is the WAGHORN MEMORIAL, erected in 1888 to Lieutenant Waghorn, R.N., a native of Chatham, who distinguished himself as pioneer of the Overland Route to India.

ELECTRIC LIGHTING

With its *General Post Office, Board of Health Offices, and Gas and Water Offices*, we may leave the purely municipal or administrative offices of Chatham. Politics, however, flourish here, as shown by the large *Conservative Club*, and there are many other social and educational institutions throughout the town, as well as establishments devoted to recreation and amusement of the citizens, such as a *Theatre*. Among those devoted to the special entertainment of the working classes is the *Chatham Working Men's Club and Institute*, erected in 1880 principally on the initiative of George Winch, Esq. However, we have almost said enough to show that Chatham contains public institutions and features of public interest to afford entertainment to visitors for an indefinite length of time, not to mention the many pleasant excursions which may be made in the surrounding districts. Of the material resources of the town and the advantages it affords to permanent residents, we will treat in detail at a future part



THE GORDON MEMORIAL
(From Poulton's Artistic Series.)

of this work. Just on the boundary between Chatham and Rochester may be noticed the Hospital for decayed mariners, and generally referred to as *Hawkins' Charity*. This charity is in one sense one of the most peculiar institutions in Chatham. It was founded in 1597 by Sir John Hawkins, who was a characteristic hero of the old school. He was one of the heroes of the repulse of the Spanish Armada, but yet he had a heart warm enough to

provide this home for decayed mariners, and also, in conjunction with Sir Francis Drake, to found the "Chatham Chest," a sort of old-age insurance scheme. Nevertheless he is said to have been a slave trader on a considerable scale, and to have been the first Englishman to engage in the African slave trade.

Although actually situated in Rochester, we may here mention *St. Bartholomew's Hospital (and Chapel)*, an institution founded by Bishop Grundulph in 1078. Its scope has been greatly enlarged in later years, and it is an inestimable boon to the "three towns".

There are, of course, many points of interest in the neighbourhood, and amongst these, KIT'S COTY HOUSE must, of course, be visited. The Cromlech known by that name is situated not very far from the village of Aylesford, on the road to Maidstone. It was once thought that monuments of this description were Druidical remains, and that the top slab was used as a sacrificial altar. This theory has been long since exploded, and it is generally admitted that the erections were placed to mark the resting places of distinguished persons, and to protect their remains. Such Cromlechs are to be found in many parts of England, Scotland, Ireland and Wales, in the Channel Islands, France, Spain, Denmark, North and South America, and even in Hindustan. According to Camden, Kit's Coty House was erected to mark the burial place of Catigern, the brother of Vortimer, who fell near the spot in the great battle between the British and Saxons in the year 455. Stow also ascribes it to the same Prince, and the Venerable Bede says :-

"There was also slain in the same battle at Aylesthorpe, Catigern, brother to Vortimer, whose monument remaineth to this day, on a great plaine heath in the parish of Aelsford, and is now corruptly called Cit's Cothouse for Catigern's."

Although Stow's account of the Cromlech, which he visited in 1590 "in company with divers worshipful and learned gentlemen," is correct in the main, his deriving its name from Catigern is objected to by some authorities; whilst the people in the neighbourhood, with some plausibility, consider it obtained its name from an old shepherd known as Kit or Keith, who used it as a shelter when keeping his flocks upon the plain.

One man's opinion of the amateur stage

by Ken Trafford

"There's no business like show business, like no business I know" as the song goes and for me that is very true. Having only experienced the world of amateur stage I cannot comment on the pressures of the profession, whose life depends on one's performance, but for me the thrill of walking on stage in the theatre or in front of an audience in cabaret is something one has to experience to appreciate. The butterflies in the tummy and trying desperately to remember your first line (rehearsed a thousand times) just before you go on, for me are all part of the thrill of the theatre.

I wonder how many people realize the cost, effort and time that goes into the average amateur stage production today. Even a relatively cheap show costs approximately £2000 to stage, and is taken up with things like orchestra, music, costumes, scenery, transport, programmes, tickets, royalties, etc. and of the many people required to help in the production such as musical director, stage manager and his crew, lighting, sound, front of house workers, call boy, wardrobe mistress, etc., who, like the performers, are unpaid participants in a love of the theatre and desire to be involved.

To ensure the whole production is ready for opening night, preparation starts some five months beforehand with auditions, which although performed to a small committee are nonetheless a little nerve racking, especially if you are auditioning for a leading role. After that, assuming you have been given a part, the lines have to be learnt and this, I



might add, causes a lot of heartache. There is no easy way out, it requires concentration and a discipline of effort to learn the dialogue and movements associated with your role and to acquire a working knowledge of other performers' roles, so as to understand what is going on and when exactly to move or come in, hopefully without a prompt. That brings me to another important person, the prompter, a part not really appreciated by many people but it must be borne in mind that the prompter must know the show backwards, so as to know when a performer is in difficulties or is merely pausing for effect.

Rehearsals carry on continually once or twice a week and sometimes at weekends nearer to the opening night, to ensure the whole cast know their parts thoroughly from the main leads to the smallest role. So you can see a fair amount of time must be devoted for the show to reach a standard for public viewing and hoped for success.

All the activities and people mentioned need to be co-ordinated to achieve the end result and that is the job of the producer. A task reserved for a few experienced and talented people because the pressures are many, from the actors who won't do as they are told, to the chorus who continually chatter whilst being directed in a difficult routine, or the lights are in the wrong place and the scenery unsteady, but fortunately things do seem to come out right in the end, even if it does involve a lot of stress and strain. Hopefully then the show is ready for opening night, the sense of achievement and friendships gained makes all the previous problems worthwhile and you can't wait for curtain up.

All that is needed now is an audience and that's the part we hope you will play. So the next time you go to an amateur show try to remember some of the things mentioned and that everyone on stage is doing their best to entertain you and, please, if you must throw something it the warmth of your applause.

If this brief insight into the amateur stage has sparked an interest for you I would be happy to pass on joining information for several local societies.

Contact-Ken Trafford (int. 613)

How we are noticed

It may come as a surprise to most people, especially those who recently came into industry, to realize those who surround us sit up and take notice.

With supervisors, training officers, school and college reports, the successful ones can be picked out and duly rewarded. This is called 'progress by merit' and many successful leaders of industry got on to the ladder in this manner.

There are, however, many other sides to one's character and achievements, even though they may have a 'negative' connotation, but one thing they have

in common with 'positive' ones is that it brings one into the sphere of being noticed.

Our cartoon, based on a known tendency to 'forget' highlights the interest this weakness generates.

We only hope that even though one may forget where his work is, he will not forget his function in life is to work! The sufferer from a bad memory, however, surely must work harder to achieve anything and this can be an attribute. What can be puzzling is how can he remember that 2 + 2 + 1 can make five, or that positives and negatives are opposite.



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Sports and social club round up

INTER-DIVISIONAL FOOTBALL

The inter-divisional football competition has been concluded, the 1980 winners being IND, captained by Brian Crombie, who overcame the CMS opposition by 3 goals to 1.

At the conclusion of the match, the shield was presented by Mr. P. Burrows, Production Manager of CMS.



The Victorious IND team with trainer (A)

YACHTING

It has been looked upon for years now that yachting is a rich man's pastime. This is not so as Brian Wells, Production Engineer of AS & RD, will tell you. He has been sailing and winning races up and down our River Medway for years now and has achieved this at very low cost.

As a member of the Pacer Fleet at the Medway Yacht Club, based at Uttoxeter, he is able to use the facilities of the club to enrich his already very able expertise in competing in various competitions laid on by the club. In the 'Pacer' class in which he now competes various races have been arranged for this season and his yacht 'Pyewackett' No. 84, can be seen (usually in front) speeding up the Medway heading for yet another trophy to add to his already rather large collection.

He has always had a liking for an outdoor sea life. Born in Gillingham, his father was a naval man which is the reason why he spent a large amount of his youth on the sunny island of Malta, Malta being a sailors' paradise, Brian took up sailing with his father in Snipe class dinghies and 30m² yachts which included races from Malta to Sicily and back. As an ex-dockyard electrical apprentice, he has also served five years globe trotting as an electrical officer in the Merchant Navy.

Brian has spent many years sailing Firefly class racing dinghies at Medway and various clubs around the country, winning many trophies locally and away. He has won the Firefly class trophy at the Medway Regatta on seven consecutive years. A recent achievement was a close second position to National Champion at Thamesmead S.C. in their Pacer open meeting. He is now looking forward to this year's Medway Centenary Regatta on 31 July - 3 August. Recently he won the Pacer Open at Medway from 18 starters.

Brian Wells is married with one daughter though at present she is too young to crew, but it will not be long before it will be a Wells team.

VISIT TO AYLESFORD FRIARY

A club visit to the ancient Aylesford Friary, took place on 18 June. Under the guidance of one of the resident Friars the party toured the buildings and then heard a discourse on the Carmelite faith and its history, especially as it concerns the Aylesford centre. Members voted it a very interesting evening, and it gave scope for some very exciting camera work.

This was the first of a series of outdoor summer activities and anyone wishing to partake in further excursions are advised to get in touch with the members of the Photographic Society, who will be glad to give help and advice.

We are now able to present you with a photograph of the new steward and stewardess - David and Peggy Boniface.



ATHLETIC SECTION

During the past few weeks successes have been notched for the club, by its keen and speedy members.

The youth, boys and girls were in fine form in the Young Athletes National League Division 1 meeting in May. Sean Talbot did a double, clinching the boys' 200 in 25.7, and the 400 in 57.1. Andrew Saker won in the 1500 and Kevin Minter of the 'B' string came 3rd. Anthony Lucas scored in the 1500 and 3000 while Irvin Langley ran a personal best to finish 2nd. Todd Stout won the triple jump and - Chapman was 3rd.

In the start of the Southern League fixtures, a good impression was made. The 'A' team, newly promoted to division 2, came 2nd and 'B' team, new in division 6, scored a convincing win. 'A' team best performers were Gary Gallacher, Ian Gower and Neil Maytum. The Club Captain, Alan Guilder, came 2nd in the 5000. Peter Mullervey and Richard Clark also did well as also Christopher Sellars at Cambridge.

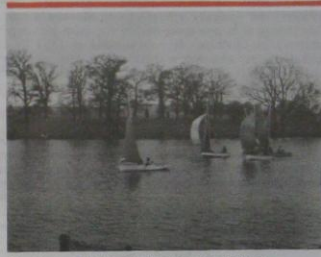
In the Kent A.A.A. Championships at Crystal Palace, Neil Maytum won a gold in the 1500 and in 1 min 56.1s gained another gold for 800m.

In a Southern Counties League Division 2 match a Redhill, Charlie D'Albertson was the star performer, scoring successes in 100 'B', 200 'A' and 400 'A' while Ian Gower was close behind winning both 100 'A' and 200 'B', while Alan Guilder was first home in the 5000 'A' and Peter Mullervey won the 'B' 5000, to score a double at this distance.

The club is well up in the promotion race in the Southern Counties League, gaining 13 points out of a possible 15.

Gary Gallacher of ADD DO has been consistent throughout the season, and at Norwich recently gained a 'double' to clock 10 points for the club. In the triple jump his leap of 14.40m was a winner as was the long jump of 6.60m.

Performers who deserve mention include John Smith (String Hammer), Rod Smith 2nd in the triple jump, Paul Smith 3rd in the discus, Chris Thomson, James Conroy, Kevin Minter and Andy Saker, with Mark Butler and Paul Trickett making good headway in running personal bests.

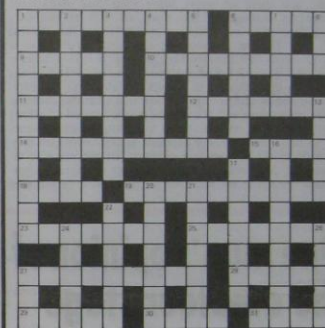


Brian Wells at Mote Park leading the line in his Pacer.

PROGRAMME

Date	Fixtures	Venue
July 19/20	Southern Senior Decathlon	Crystal Palace
20	Gordon Pirie Trophy meeting	Erith
21	Junior inter-county	Crystal Palace
23	London Business Houses Championships	West London
27	Young Athletes League Kent Women's League (inc. Kent 4 x 200)	Brighton Rochester
Aug 2/3	AAA under 20 Championships	Birmingham
9	Elliotts Sports Day	Club ground
	LBH 10 mile road race	Hendon
10	GRE Cup semi-final	Erith
16	Southern League Division 2	Brighton
	Southern League Division 6	Rochester
20	London Fire Brigades meeting (inc. LBH Relay)	Crystal Palace
23	Dartford Gala	Dartford
	Southern Boys, Youth & Junior 3000m Championships	Crystal Palace
25	Erith Show	Erith
30	Southern League September Shield	Hendon

CROSSWORD NO. 26



ACROSS

- You can put your shirt on it (4,5)
- Cool has one, it's hard. Actors tread it (6)
- Natural ability (5)
- Rock bottom price, or in collision (5,4)
- Ridicule with repeat story (7)
- Perplexed, French no to addition (7)
- The Crusader with a message, St. John perhaps (10)
- From which Jack grew rich (4)
- The family, more than one (4)
- Orators success assures following (10)
- Not mods, horsey may be (7)
- A time most do not know how to use (7)
- A junior officer (9)
- Thoughts become active (5)
- After the reapers, one does (5)
- A wretch or Achilles (4)
- The pal or staunch friend (4)

DOWN

- A robbers friend that smashes (4,7)
- The tail is covered well (4,5)
- Swift from a lath (8)
- The missile Billy Bunter stopped (7)
- Reasons become the best, divorce? (7)
- Lovely kitchen aroma when mother is (6)
- Coral Island (5)
- Home for lions, suite for student (3)
- A good idea makes it (5)
- Real drama, becomes delicious (9)
- An immense ocean, but peaceful (7)
- Girl's name, gray or mix (7)
- It becomes eerie, but longed for at home (7)
- A divided place with nothing at end (6)
- Message on the ocean bed, or tether (5)
- Once called composition, until Emerson (5)
- The deflection of beam or rope (3)

SOLUTION TO CROSSWORD No. 25 For amusement only.

ACROSS

- Stack, 4 in the mud, 10 Arklow, 11 Stirling, 12 Postings, 14 Bruce, 16 Saff, 17 Insult, 21 Nipper, 22 Tuba, 26 Plant, 27 Scabbard, 29 All's well, 30 Daist, 31 Headline, 32 Steel.

DOWN

- Takes off, 3 Chopin, 5 Nuts, 6 Handbill, 7 Murrur, 8 Dry bed, 9 Harriet, 12 Agrappa, 15 Ostrich, 18 Litowel, 19 Curative, 20 Day duty, 23 splash, 24 Dahlia, 25 Object, 28 Cian.

Photographs taken by the Staff Photographers will be acknowledged in the following way: (A) Alan Kaye; (B) Linda Jones; (C) Tim Murray.

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