MARCONI NEVVS

OUR MOTTO FOR THE MONTH

"You are never too old to learn if you are not too proud to be taught!"

New year Message

Last time I made a contribution to our Company Newspaper, it was to wish it every success on the occasion of its first issue. I am now very pleased to see how well established it has become in fifteen months,

and I look forward to even better things in the future.

New Year is traditionally a time for taking stock, and looking at the position of the Company today gives me great heart. Our order book is very healthy and once more, this year, we are looking forward to a significant expansion in real terms. Comparing we have a lot for which that of many other Companies we have a lot for which to be thankful. We are, however, facing a very tough challenge this

We are, however, facing a very tough challenge this year and that is to achieve the deliveries which we have promised our customers, with so many new systems going into production at the same time. In order to keep our customers happy, and to make sure that they come back to us next time, we shall all have to make tremendous efforts in the coming year. May I wish you all a very happy and prosperous New Year both from a Company and personal point of view.

5 January 1979

US Deputy Secretary of Defence visits Marconi Avionics

Mr. Charles Duncan, United States Deputy Secretary, of Defence payed a visit to the Rochester head office factory of Marconi Avionics Limited (a GEC-Marconi Electronics company) on Friday, 3 November. He was accompanied by three United States Government officials. The visiting party arrived at Rochester Airport by helicopter at 2.30pm. Beflagged official cars were standing by to take the party to the factory, where their host was Mr. Jack Pateman CBE, Managing Director of Marconi Avionics. The visit lasted two hours.

The visit to Rochester was part of a two-day programme of visits to two British companies and to government establishments, with the aim of briefing the Deputy Secretary of Defence on current activities.

Marconi Avionics is already established as a major supplier to the United States aerospace and defence industries, a factor which has made it possible for the Company to receive another Queen's Award for export achievement in 1978.



Our photograph shows the arrival of the US Deputy Se Defence in conversation with Mr. J.E. Pateman CRE. (A)

ENGINEERING EMPLOYERS **FEDERATION**

SAFETY

The Company has received a second 'Golden Hand' Award from the Engineering Employers Federation. Each year the Federation makes Safety Awards to member companies for reducing or maintaining a reportable lost time accident rate. A target is set by the Federation based on a company's declared accident returns over a three consecutive years period. The scheme, which commenced in 1973, was designed to assist in reducing industrial accidents by offering to managements quarterly safety programmes. The awards, which take the form of a certificate, are

Two Star

For establishments which equal or beat their targets. For those which, while not meeting their targets, nevertheless achieve an incident rate of 20 or less.

For others achieving a 10% improvement over their average incidence rate for the three years under review.

CARTOON COMPETITION RESULT

(Competition - MAv News No. 12. November 1978)



Medway Aeronautical Branch has gala Battle of Britain night

The Medway Branch of The Royal Aeronautical Society and its sponsor, Marconi Avionics Limited, received distinguished guests from all over England, including famous fighter aces, at a lecture held at Airport Works, Rochester on Wednesday B November at 7 pm. The lecture, which members of the public attended, was 'Battle of Britain' by Derek Wood, UK Editor of the magazine group Interavia and author of the book of the famous film.

The President of The Royal Aeronautical Society, Professor Lew Crabtree, the Secretary, Mr. Jim Schaffter and his Personal Assistant, Mrs. Eva Dane, payed their first official visit to the Medway Branch since it reformed three years ago. It has now become the largest in the country, drawing its members from all over Kent. Other distinguished guests included: CIIr Clive Morman leader of Medway Council, who has been an active supporter of the scheme to bring the last operational Sandringham aircraft to Medway as a memorial to Shorts activities; Mr. Harold Rogers, Station Manager of BBC Radio Medway and Gerry Hinks, Editor of Chatham News and Standard. Also invited were famous Battle of Britain aces Sir Douglas Bader, Robert Stanford Tuck, Johnny Kent and Paddy Barthropp. A special guest for the evening was to have been Mr. Bill Littlejohn, 95, the oldest surviving exemployce of Shorts in the Medway Towns, but due to lilness was unable to attaon.

No stranger to the Medway Branch is Wg Cdr Colin Campbell, Officer Commanding RAF Manston, the station which has lent its Spiffire to the Branch's Aircraft Preservation Group for refurbishing at

Rochester Airport. During the visit to Marconi. Avionics, the guests were taken to see the Spitfire which is already showing real signs of progress. It is scheduled to be returned to the station, in perfect condition, on Battle of Britain Day 1979.

The lecture, which took the form of an illustrated talk, was designed to appeal to men and women of all ages and, in keeping with all Branch Lectures, did not require technical knowledge for it to be enjoyed. The great popularity of these lectures has enabled Branch membership to grow to around 1,500.

Branch membership, open to men and women over 14, costs 50 pence annually. Visitors are charged a nominal 20p temporary membership—refundable on joining. Lectures are held on the second Wednesday of every month, October to April inclusive, and all are welcome.



DOWN MEMORY LANE

The day before was bitterly cold, with a North Easterly wind blowing, threatening snow, and as the night fell, so did the temperature. The next day was Saturday, and the insurance agent was proparing his paperwork for the collection on Saturday morning, as the area to be collected views on the externity of the agency some aix miles away. The bicycle had been checked over and olied, downward, and at breakfast, as the snow began to fall, the landsday questioned the necessity of going out. Duty called, however, and the agent was conscious of the many people who would be awaiting him to pay out the sickness benefit — the insurance commend him, it was found that he suffered nothing more ever, and the agent was conscious of the many people who would be awaiting him to pay out the sickness benefit — the insurance commenders — the village being one in business cards and baying out the beath of the larger ones in Lieusetrahite, and having some local Industry.

Dessed for the occasion with waterproof clothing and woollers underneath, with plenty of pockets easily got at, and wearing the usual bowler hat, the agent got out the bike and pedalided away. The amove by this time was beginning to lay, and made progress difficult to could be seen that the anony story out the bike and pedalided away. The amove by this time was beginning to lay, and made progress difficult to could be seen that the anony story and pedalided away. The amove by this time was beginning to lay, and made progress difficult to could be seen that the anony story and pedalided away. The amove by this time was beginning to lay, and made progress difficult to could be seen that the anony story and pedalided away. The amove by this time was beginning to lay, and made progress difficult to could be seen that the anony story and the story and crise day Callington to the story of the cycle and the pedalic progress was laborious and slow, visibling was only a lay and the beaty story and crise day. Callington the pedalic progress was laborious and slow, visibling

To Carole and Stuart Mackrell the gift of a daughter at 7tb 2%oz. Named Sarah Elizabeth, she arrived on 10 October 1978, and is the first grandchild of **Bob Walter** who works in MAV Standards.

To Roy Papworth (MASD) and Eileen Papworth (Social Club secretariat) two granddaughters, Kate on 2 November 1978 and Collette on 6 November 1978. They now have four granddaughters and one granddaughters and one granddaugh

A FAMILY AFFAIR

We now have three generations of the Goodearl family in the Company; grandfather, son and grandson.

There are probably more such families within the Company. We would be glad to report on 'the family connection', Details of family groups working here are invited, send to the Editor.

Miss C. Goodrich of IN Production Library became engaged to be married to David Morris on 30 November 1978

Mrs. Emily Hill of IN Division, formerly in Fuse Division (Filter Dept.), died 1 November. She heroically bore her ill health.

A Tribute



NOTICE

LANGUAGE PUZZLE

LANGUAGE PUZZEE
Remember, though box in the plural is boxes,
The plural of ox should be oxen, not oxes;
And, remember, though fleece in the plural is fleeces,
That the plural of goose in ori gooses, nor geeses;
And remember, though house in the plural is houses,
The plural of mouse should be mice and not mouses;
And foot, it is true, in the plural is feet,
But the plural of root should be roots, and not reet.

Slim Llaw.

A Tale Of Hope And A Moral Rochester Hill Billy

Now Christmas meant a lot to Bill, and his wife Nellie — on yonder hill When raffles came for wine and port — and sundry goods — The christmas sort — Bill would head the massive queue — The christmas sort — Bill would head the massive queue with the property and still quite frisky, Bill had thoughts of winning whiskey. With a heave and a ho — and with fuck by gun; He'd win a bottle of — nawy rum! Bur, fate decreed twes Not to be — For tickets nine to oniety-threll Bur, luckily, I'll be bound — he won — a turkey, 15 pound! Now Bill was pleased with his change of luck! Til he found the turkey had ne'e been plucked! I gnoring all his daily chores he hild in a corner of the stores (gnoring all his daily chores he hild in a corner of the stores (parting Nellie). Thinking not to appease his belly but, of presenting it — to his darling Nellie. At five pm when the whistle blew Billy emerged with his parcels two!

At the promotes the whistle blew Billy emerged with his parcels two?

Briskly strode down city way — that extra tot just made him away—
In parcel not limm and round his christmas finner—
In parcel two claw and down—somewhat thinner!

Ore Rochester bridge he strode away—oh what a happy day.

Threw those feather away in his stride—they floated away

On the evening tide,

And the stah in the stride of the st

LETTERS TO THE EDITOR

On Wednesday 13 December I went to the works canteen for Christmas lunch, hoping to enjoy my dinner along with my friends. The meal was quite good, but what disgusted me was the behaviour of some of the personnel at lunch. I have seen animals with better manners. During the carol singing, some people were talking loudly or shouting across the tables. When the Choir finished a carol some persons were jeering, stamping their feet, and banging on the tables. I personally witnessed one man attempting to spit into a collection box when we were all asked to make a donation for the Cancer Research Fund. To see this kind of behaviour from adults makes me ashamed to admit that I work for this firm.

I wonder what the Choir must have thought. I am sure they must have been as digusted as my friends and I. We have vowed never to go to lunch in the canteen again on these occasions.

Disgusted.

Around the Divisions

Marconi Avionics communications systems for new Westland helicopter programme

Most advanced avionics ever defined for a European

Most advanced avionics ever defined for a European helicopter.

The U.K. Ministry of Defence (PE) has placed a contract with Marconi Avionics Limited for project definition of the complete communications system to be fitted to the new Westland WG34, projected as a Sea King Replacement helicopter. The project definition is being carried out by the Company's Airadio Systems Division, Basidon, England.

To enable the Company to carry out such work they established the Airadio Systems Division just over a year ago. The Division is now also developing the complete airborne communications sub-system for the AEW Nimrod programme—a sub-system which alone contains over 100 line replaceable units.

Marconi Avionics has, in fact, been working for some time as sub-contractors to Westland on the integration of a whole range of new mission avionics for the WG34, a complex task which will ensure for the Companies a technological leadership in helicopter avionic systems design until well into the 1980s.

borough Air Show, when it was also announced that Marcon Avionics has been selected to carry out project definition for the acoustic processing system of the WG34.

FCD

With the announcement of the successful negotiations for the Rumanian contract, the Divisional Management expressed thanks to all those who had had a share in the extensive detailed preparation of the bid.

To demonstrate further the "team spirit", a social evening was arranged at the club house, Featherby Road, where Divisional Management acted as hosts to pay a real thank-you, in an atmosphere of galety, social activity and drinks.

Our picture shows George Bull, trying his hand at being a walter, under sceptical yet watchful eyes.



AS&R Division Profile

In discussions throughout the year with many people in the Division I have often been asked questions concerning the progress of our support business and on the basis that this is evidence of a wider interest I thought it might be worthwhile to prepare a few general notes concerning the Division's present work

and on the basis that this is evidence of a wider interest. I thought it might be worthwhile to prepare a few general notes concerning the Division's present work and future projects.

Firstly it is perhaps useful to recognize that whereas the manufacturing division's have products which mainly consist of equipment hardware, the products of ASRD are actually the 'services' that we provide for the world's airlines and airforces. The products reservices that we offer may be briefly defined as equipment repair and overhaul, sale of spares, logistic support data and planning, on-site service engineers, technical training, post design engineering services and technical publication activities.

In terms of the total business, the equipment repair and supply of spares together constitute by farthe largest element and both areas are extremely busy and involve over half of the people in the Division. Repairs are currently running at the rate of some 900 per month and monthly throughput of spares orders is in the region of 700 and at this level of operation our computer aided inventory management and data tracking systems play a vital part.

In a sense our airline and airforce customers are also our main competitors since many of them, especially the RAF, set up their own extensive workshop facilities, this means that a proportion of the repair work coming into ASRD is essentially the surplus which for perhaps technical or overload reasons our customers cannot handle. Obviously this type of work is less predictable than we would like and therefore where possible we try to negotiate support contracts on an equipment type basis that allows us to deal with all therepair arisings that a particular operator might have.

Since the situation is competitive we need to offer the customer advantages over his own DIY approach and for the civil airlines we may provide facilities such as fixed price repairs, guaranteed turn-round times and payment schemes based on the number of hours flown. On the military side our approach is adapte

we gradually transfer the task to the service main-tenance unit (MU). During the period in which we handle all repairs we also develop and supply depot level test equipment and prepare "worksheets" that provide comprehensive fault diagnosis and test pro-cedures that help to simplify and speed up the repair process.

The most important contract of this type ninerto has been the support of the Jaguar NawWass which, operated in conjunction with IND, has performed and indeed still does perform an extremely important role in Keeping the RAF Jaguars flying; a special feature of the programme is the very successful 'over the counter exchange' scheme of 'serviceable for unserviceable' items which has operated for all 97 units and modules of the NawWass.

counter exchange's cheme of 'serviceable for unserviceable' items which has operated for all 97 units and
modules of the NavWass.

Jaguar support is still a major task and our involvement in Inertial Platform repairs is very much an ongoing commitment, but on this project we have now
reached the 'transfer-phase' and the RAF is beginning
to take over the job as we begin the cycle once more
with preparatory work for support of the Company's
products on the Tornado multi-role combat aircraft,
since Rochester Divisions manufacture some seven
major sub-systems for this airplane, the future task
for ASRD will be proportionately extensive.

As a more immediate new programme beginning in
January 1979 under contract to ADD, ASRD becomes
the European Repair Centre for the General Dynamics
F16 Lightweight Fighter Head-Up Display system; as
well as being a workshop task this programme also
means a major data handling responsibility for our
Logistics Engineering group.

On balance it looks as though 1979 will be as busy
or busier than 1978. The strong on-going activity in
the workshop will be shared by most of the other departments in their importent supporting and co-ordinating roles such as quality assurance, administration,
sales etc. For the engineering department, in particular,
1979 should see a significant increase in design activity
related to Tornado and the publications group at New
Road will progressively become involved in the programme as the year goes on.

ASRD accomplishments in 1978 have made an important contribution to the total Rochester achievement and we can confidently look forward to a repeat
performance for 1979.

H.D.F. Eagles

H.D.F. Eagles

Where are they

now?



Colin Harvey.

An 'old boy' of Elliotts (Forerunner to Marconi Avionics), former apprentice, Colin Harvey has been in the headlines of the local and technical press, as a "... man with a message." Colin is the Quality Assurance Manager of the successful Tenterden based export firm of Unit Automation Limited and recently presented a paper on "Small Companies" to the 18th International Quality Assurance Conference at Qxford. He spoke on "the instigation and development of a quality organization within a small company,"

Since joining his present company he has seen it grow, and with it an increasing involvement, with a firm sense of pride in product and achievement, by the workforce. His dictum of "Getting it right first time," helps the company economically, and gives job satisfaction to those engaged upon it.

He speaks with pride of his training at Elliotts, where many of the theories he is now putting into practice were first inculcated.

Unit Automation now have a turnover of £2½ million, most of it in exports, particularly to Saudi Arabia, to whom the company supplies turbine lubricating plant. A close liaison is kept with customers in Europe and the Middle East, which enables Colin to be a much travelled man.

At 31 years of age, his future seems to be assured, with scope to prove that ideals can work, to the good of all. He is married and lives at Loose, near Maidstone.

Appointments

been announced:
A.P. Goode as Leading Hand (Test)
B.J. Fever as Chief of Test
M.J. Ambler as Foreman (Test)
P.A. Walter as Section Leader (RST)

Apprentice Activity

We extend a welcome into the Marconi Avionics family for the following members of the 1978 Apprentice intake. They come from a total of 41 schools/colleges and wide ranging geographical area. We give a special welcome to the five ladies, hoping they are not overawed by the masculinity around them.

ranging geographical area. We give a special welcome to the five ladies, hoping they are not overawed by the masculinity around them.

Collinson M.P. (Astor of Hever), Styles P.E. (Borden Grammer), Balderston N.W., Boardman M.C., Dorey P., Goodair M.L., Goodearl M.S., Hunter A., Wootten M. (Chatham Tech.), Miss Horton L.C. (Chatham Grammer, Girls), Miss Steplas M. (Chatham Tech.) Styles P.E. (Barden M. (Chatham Tech.), Miss Steplas M. (Chatham Tech.), Miss Steplas M. (Chatham Tech.), Grammer, Girls), Miss Steplas M. (Chatham Tech.), Swindell G.F. (Ware M.K., Wood K. (Fort Luton), Morris P.H. (Geoffrey Chaucer), Rudd B.C., Shields K.L., Strachan C. (Gillingham Tech.), Sutherland N. (Gordon), Giles A.F.P. (Gravesendl), Peskey D.C., Harden D.K., Page N.J. (Highfields), Bryant N., Collins T.J., Crayford I.R., Hunter J., Wes R., Newell K.D., Thomas G.W. (Howard), Bowen M.S., Cooper A., Denning E., Horton M.J., Irvine M.A., Wells L.A. (Hundred of Hoo), Moller D.P. (Kings School), Bennett M.E., Bradley M.A., Lakyer J.W., Laws J.R., Orchard P.D., Tovey C.D. (Maidstone Boys), Liniker M.J. (Mascals). Cooper L.L. (Oldborough), Perkins N., Pledger P.N., Foan N.J. (Rede), Cross J.G., Reeves C., (Senacre), Munn A.R. (Sir John Leman). Camps R.W. Chapmen M.A., Fisher R.S. (Sir Joseph Williamson), Bates M.G., (Sir Simon Stock), Ryall G.A., Sir Roger Manwood), Globins S., Hodges S.A., Leeth D.I. (Springhead), Tornlin J.C. (St. Georges), Mace J.G., Sark N.A., N. (St. John Fisher), Rosse V.A.P., Toppin S.A.P. (St Johns – Gravesend), Clark C.A., Cooper M.C. (St. Johns – Stirtingbournel), Whith P.A., Rous S.J., Weller M.J. (Hundred), Williams G.C. (Weston Favell), Malon R.E., Parr D., Randall C.I. (Woodlands), Speed G.R. (Woodlands), D. (Westlands), Williams G.C. (Weston Favell), Malon R.E., Parr D., Randall C.I. (Woodlands), Speed G.R. (Woodlands), Coll.).

Another Remembers

I was very interested to read Vic Spencers'EARLY DAYS' article, and especially his reference to the Jindivik, I wonder if he and any other founder members of the Aviation Division are aware – that Jindivik is still alive and kicking, in this country and autopilots are still in production.

We have come a long way since the first B. Autopilot, we have had the B2, the 2B2, the L2, the L4 and in current production the L5 Auto-pilot system. The overall system is still basically the same, some design changes have taken place and card assemblies have replaced the old type magnetic amplifiers. The latest units being manufactured bear the modification label EBTA 205. The Company name may have changed but the Mod Label is still Elliott Bros – Target Aircraft.

craft.

The role of the Jindivik has greatly changed since the B auto-pilot days — it is now capable of flying at 65,000ft and has become a drogue towing aircraft. It still flies from the RAE establishment at Llanbedr, North Wales, and is maintained by Messrs Short Bros. and Harland.

One of the Jindy's has completed over 100 flights, put into perspective, that is a hundred missions over enemy territory. The operators are highly delighted with the achievement, but for some of the maintenance crew the end can't come too soon.

Running parallel with the Jindivik in the early 1960s we had another RPV (Remote Piloted Vehicle) in operation. This was known as the MK. 16 Autopilot and was fitted to the Meteor aircraft. This project was run by Flight Refuelling at Tarantt Rushton, and like the Jindy was operated from RAE Llanbedr. Anyone who was connected with that project will remember the dreaded Servo Motor. Strange to relate we are still working on a VTR with Flight Refuelling and a new breed of drone has been built. This time the aircraft being droned is the Sea Visen.

Therefore as you will see, from the humble beginning of Aviation Division and the type B Auto-pilot—we have come full circle to the mighty MARCONI AVIONICS LTD—still retaining the bread and butter job we first started with. The Jindy is alive and well—oh yes, I remember well.

W.Caley.

DEVELOPMENT AND ORGANIZATION OF ELLIOTT-AUTOMATION LIMITED

Jarvis B. Webb Intera



The following seriously written report in a British daily newspaper by an 'Aviation Correspondent' was printed circa 1905. It is not without humour:

"There can be no doubt as to this machine's flying capabilities, because the distance between where the wheel marks stopped and the pile of wreckage was 25 yards."



Queen's Award 1978

As announced in the summer of 1978, Merconi Avionics Limited (as a company) had been awarded the Queen's Award for export achievement, making the 7th award to the Company since 1967. The presentation ceremony took place in the main canteen on 30 November 1978, by the Lord Lieutenant of the County of Kent, Lord Astro of Hever, on behalf of Her Majesty the Queen, before a large gathering of representatives and distinguished guests.

The presentation was preceded by a reception for the distinguished guests and representatives of the two chief arms of the Company—located at Basildon and Borehamwood, with various divisions of the Rochester plant supplying personnel who acted as hosts.

and Boreharnwood, with various divisions of the Rochester plant supplying personnel who acted as hosts.

There was an exhibition on the Mezzanine floor of the Towers, and tours of the various sections of the Rochester site including New Road and the Flying School. Buffet lunches were supplied in the conference rooms and waitress service canteen.

The ceremony of presentation began at 2.30 pm, under the Chairmanship of Dr. B.J. O'Kane CBE, Company Chairman. The Managing Director, Mr. Jack Pateman CBE, then gave an outline of the achievements of the whole company leading up to the granting of the award. Recalling the previous successes, he pointed out that the latest award was not to any particular section, but to the Company as a whole for its undoubted success in the field of exports. The products of the Company, covering such a large spectrum of needs for air and land defence requirements and industrial needs, are now spread world-wide —a success in which everyone had played a part. Advanced technology, reliable workmanship and delivery promises met are the basis of this remarkable success story.

Before making the presentation of the Award replica and citation certificate, Lord Astor spoke of the extent and diverse products of the Company, and in congratulating every member on its success, expressed his belief that, with such a foundation solidly built, the future was bright and that greater successes would be achieved. He then presented the Award replica to Mr. D.E. Newman of Basildon, an employee of 33 years, and the citation certificate to Mr. Jack Unwin of Borehamwood. On behalf of the Rochester organization, Mrs. A.M. Fisher (Welfare Officer) briefly thanked the Lord Lieutenant for graciously making the presentations.

On behalf of the guests and visitors, Councillor Mrs. Peggy. Saxby (Deputy Mayor of Medway) addressed the assembled company:

"My Lord, Mr. Bean, Distinguished Guests, Dr. O'Kane, Mr. Pateman. It is my pleasure to bring you





greetings from her worship the Mayor, Councillor Mrs. Daphne MacDonald and her regret that she was unable to be with you all today. However, as a very close member of my own family has worked here since 1950, I was delighted when she asked me to deputize

1990, I was delighted when she asked me to deputize for her.

In what seems now those far off days the name of the company was 'Elliott Brothers Limited' with Leon Baggitt and many lively characters who are gone but not forgotten. Today a new name Marconi Avionics Limited is very descriptive of the products of the work force you employ.

Avionics Limited is very descriptive of the products of the work force you employ.

It is a very warming gesture that you, the Company, have gathered together here today representatives from the Borehamwood, Basildon and Rochester factories. For me your firm still retains many facets of the original family atmosphere, for one has only to attend the 'Long Service Association' Dinner and Dance, meeting many old friends, to realize how many employees have stayed with you, and indeed many of those who have left for various reasons often return. The awards that you have airready won, that you have received today and I'm sure will do so again and again, demonstrate the exceedingly high degree and quality of your work here, it never ceases to amaze me that so many people of youthful appearance posses such a high degree of technical ability.

With apologies to Lord Astor, it is a comforting thought that you are proven worthy challengers to those descendents of the Pilgrim Fathers—merciless competitors, worthy allies, the Americans.

I cannot finish without reference to the generous support your company have given to the Medway Branch of the RAeS (I might add that I am a member). The facilities you have provided for the lady who is stealing the affections and spare time of so many







husband/boy friends, including mine, I refer of course to the "Spitfire". And finally for providing storage space for the building belonging to one of our Resid-ents Associations, thus proving that you as a com-pany are a community, assisting in your own way a much wider community."

Three communities share the honour of Marconi Avionics Queen's Award.

At the presentation of the Queen's Award for export achievement to Marconi Avionics Limited, one hundred employees from each of the company's principal factories at Borehamwood, Basildon and Rochester, participated in the ceremony at Airport Works, Rochester. The Lord Lieutenant of the County of Kent, acting on behalf of Her Majesty the Queen, made the presentation in the presence of distinguished guests from all three communities.

These guests included:

(i) from Borehamwood
Clir. H.J. Franklin, Deputy Mayor of Hertsmere
Borough Council, Mr. J.Heath, the Council's
Chief Executive and Mr. C.J. Watts, Chief of
the Elstree and Borehamwood Manufacturers'
Association.

(ii) from Basildon
Cllr. R.J. Austin (Chairman), Mr. R.M. Mitchinson
(Town Manager) and Cllr. Mrs. D.E. Austin JP;
Mr. C.M. Jenkins BA, Principal, Basildon College
of Further Education and Mr. J. Banville,
Managing Director, John H. Burrows & Co. Ltd.

Managing Unecur, Sam.

(iii) from Medway
The Deputy Mayor of Medway, Clir. Mrs. Peggy
Saxby, Mr. Bob Bean MP and from Medway Borough
Council: Mr. Roy Hill (Chief Executive) and Mr.

Clive Morman (leader of the Council).

Clive Morman (leader of the Council).

During the past three years Marconi Avionics, a world leader in aviation electronics and allied high-technology business, has trebled the total value of its exports from its Boreharmwood, Basildon and Rochester factories. The activities of the Company's team, now numbering 9,000, have been recognized since 1967 by no fewer than seven Queen's Awards to Industry, spanning both export and technological achievements.

The 300 employees taking part in the ceremony represented the great diversity of skills and activities within the Company. They and the distinguished guests saw a specially arranged exhibition of the Company's capabilities.







H.W. Pout CB Deputy Controller Aircraft 'D' MOD (PE) pictured third from the left with some Marconi Avionics' Management.



P. Saxby and Dr. B.J. O'Kane.





A History of TECHNOLOGICAL INNOVATION – presented to the Marconi Company Ltd. Our Aeronautical Division team contributed to the Award with the AD 370 Automatic Direction Finder.

1968 & 1969 1970

EXPORT ACHIEVEMENT – presented to Elliott Flight Automation Ltd.
EXPORT ACHIEVEMENT AND TECHNOLOGICAL INNOVATION – presented to Elliott Flight Automation Ltd.



Lord Astor (Lord Lieutenant of the County of Kent) representing the Queen.





Hertsmere Council representatives, L to R; Mr. J. Heath, Councillor Howard J. Franklin.



Councillor R.J. Austin, Chairman, and Councillor Mrs D.E. Austin J.P. of Basildon Council.

ueen's Awards

EXPORT ACHIEVEMENT – presented to Elliott Flight Automation Ltd.

TECHNOLOGICAL ACHIEVEMENT – presented to Marconi-Elliott Avionic Systems Limited, the company in which the team

was first combined and which is now known as Marconi Avionics Ltd.

EXPORT ACHIEVEMENT—presented to Marconi Avionics Ltd and a tribute to the successful performance and export achievement of the whole team.



Part of the large contingent of personnel who attended the award ceremony in the canteen at Rochester.









Mrs Toni Fisher (Welfare Officer) making her sp to the Lord Lieutenant.













The Company's Business

Marconi Avionics Limited is a 9,000 strong company with its head office factory at Rochester, Kent and principal factories also at Borehamwood, Hertfordshire and Basildon, Essex. There are also stellite plants in the UK associated with each of these establishments. An associated company, Marconi Avionics Inc., has been established in Atlanta, Georgia, with its satellites in Fort Worth, Texas and Seattle, Washington, Principal business is in avionics, the airborne electronic system on which modern aircraft depend and which typically contribute a third of an aircraft svalue, equal to that of its engines.

The Company's range of avionic systems and products is greater than any other company's in the world. In service on 150 different types of aircraft, military and civil, they are essential to sub-sonic, supersonic, vertical and short take-off and landing (VTOL and STOL) aircraft and on fixed wing and helicopters, of the United Kingdom, Europe, the United States and elsowhere.

Important business using allied technology is in industrial television, security systems and radiation sources, (e.g. x-ray, neutron and lasers), for industrial, civic, medical, scientific and defence applications.

WHO DOES WHAT AND WHERE

- gaged in.

 Airborne radars, including the airborne interception radar for the RAF Air Defence Variant of the European Tornado aircraft and the Mission System Avionics (including an advanced airborne early warning radar) for the AEW Nimrod, which will defend the UK and its approaches as well as ships
- Fibre-glass dish aerials for radar and communi-

- Security systems using infra-red and seismic sensors
- Battlefield surveillance radars for three NATO armies and other armies.
- Research into new radar and other techniques and developments in hybrid microelectronics.
- Product support for these equipments and activities

- At Basildon and the avionics support facilities at Stanmore, about 1,500 people are engaged in airborne radio products and systems including:
- Radio navigation products, such as automatic direction finders, Doppler navigators, Omega (VLF) navigation systems, area navigation. Examples are navigation systems, area navigation. Examples are ADFs for Concorde, Lynx helicopters of Denmark, Hawk trainers of Finland and airliners of Singapore; Omega navigators for Norwegian Boeings and computerized navigation systems for Italian MB339 jet trainers.
- Radio communications HF, VHF and UHF products such as VHF/FM comms and homing systems for Lynx and Gazelle helicopters and helicopters of other nations, VHF and UHF systems for large numbers of RAF and Army aircraft.
- Ground proximity warning systems for increased safety in airliners (these incorporate a talking computer which, literally, tells the pilot to 'pull-up' if he should need to).
- Integrated communications and data link systems for the AEW Nimrod and Britain's latest helicopter project, the Westland WG34.

- Television systems for civic uses, including traffic control on motorways, in tunnels and at congested areas. Television is also supplied for a very diverse range of applications from controlling steel mills and dangerous operations on oil rigs to superintending buildings, docks and harbours.
- Airborne television, including the heli-tele sur-veillance system, the MARTEL missile guidance system, visual augmentation system for RAF Tornado aircraft, night vision aids for safer heli-
- Night vision, including thermal imaging systems for diverse applications.
- Naval and marine television systems and equipment
- At Rochester and satellites at Chatham and Gilling-ham, and at the US Associate plants, about 4,500° people are engaged in every aspect of the design, development, production and after sales support of
- development, production and after sales support of:

 Automatic flight control systems, for example autopilots, flight directors, automatic landing control systems and complete 'fly-by-wire' systems, such as:

 Concorde AFCS and blind landing system:

 Boeing YC-14 flight control electronics:

 Tornado autopilot and fly-by-wire systems.

 Boeing 747 auto-throttle systems:

 Harrier auto-stabilizer and auto-pilot systems, including Sea Harrier and United States AV8A and the YAV8B prototype.

- Inertial Navigation systems, such as:

 Jaguar Navigation and Weapon-Aiming SubSystem (NAVWASS) for which the Company
 won the Queen's Award for technological innovation in 1975.

 Naval Compass Stabilizer for the Royal Navy
 and other navies.

- and other navies.

 Airborne Display systems, including:

 Head up displays for General Dynamics F-16 multirole fighter, Vought A-7D and A-7E Corsairs, McDonnell Douglas A-4M Syhawk, RAF Buccaneers and Swedish AJ37 Viggen in-
- Head down displays for Tornado and other air-

- craft.

 Maritime Aircraft Systems, including:

 acoustic processing and display systems for RAF
 Nimrod MF Mk2 and RAAF Orion fleets

 lightweight anti-submarine systems for Sea Kings
 of the Royal Navy and the New Westland WG34

- project.
 Instrument, power-plant and gyro systems, such as:

 air data equipment for Tornado
 low airspeed and direction sensors for US Army
 Huey' Cobra helicopters

 Tornado Stores Management Systems

 digital controls for jet engines

 automatic test systems for gas turbines

 precision gyroscope equipment and systems for aircraft and missiles.
- Computerized automatic test equipment for British Airways at Heathrow
- the European Tornado programme A-7 Corsairs, Nimrod and P-3C Orion aircraft,
- Avionics research of all kinds.
- Product support world-wide









The Navigation and Weapon Aiming Sub-System, NAVWASS, fitted to the Jaguar strike aircraft, won for us the Queen's Award for Technological Achievement in 1975.

The Company's Business





Attention to detail in the manufacture of digital electronics for head up displays. The company is the world's leading producer of such systems.









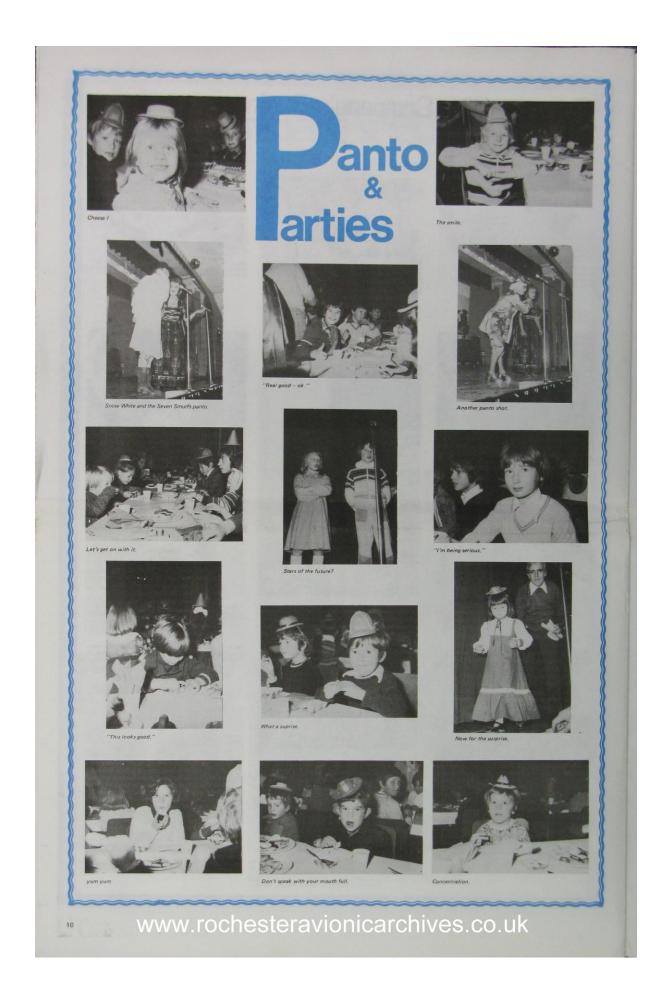












RETIREMENTS

IN Production Dept. has fost another of its 'elder states, mer', by the retirement on 11 November of Peter Sparke, after '20 years. Peter started work with the East Ken Road Car Company, then joined Shorts in 1934, later employed by Blaw Knox, before coming to Elliotts, covering 50 years in the industry, the was a chargehand in the Fitting Dept. of IN and one of those working with him claims he is one o' the

With interests of rose growing, and Industrial Archeologi (specializing in railways) he looks forward to a full an interesting retirement, and as he is now moving into a bungs low at Sittingbourne, time should not hang on his hands

In wishing Peter a long and happy retirement, Mr. D. Harries recalled the early days, when there was a family type of atmosphere and ME. RI was forming. This later suparated into several sections, Peter keeping in the IN section, providing aircraft equipment. Though no-one is indispensable, folk like Peter are bound to be missed, for they brought skills and knowledow which is not being conversed to the control of the contr

His farawell gifts of a portable drill and sander, will enable him to keep himself fit and in harness for many years, getting happiness from a sense of achievement.



Peter Sparkes and D.H. Harries enjoying a joke at the presentation ceremony. (C)



Mr. Clayton handing over the salver, cheque and well wishing cards. (C)

25 YEARS' SERVICE



E. Farbrace, 2nd left, with Mr. H. Eagles and friends after

An early employee who made the grade, and progresses through the Company, is E. Farbrace (Ted), being the Repair Manager of AS & R. He has been honoured with his 25 years service award with a canteen of cuttery.

service award, with a canteen of cutlery.

A native of Birchington, Ted began his engineering life a a Model Engineer, then joined the RAF as an Instrumen Fitter, He joined the Company in 1953 in the original Award on Division and 15 years and entered service with AS & R

He came to Elliotts almost by accident as he came originally as a temporary, while waiting to commence work with the Faveley Oil Refinery—but he was so attracted by the work and possibilities that he settled for a permanent place and progressed from fitter to foreman and now Repa

manager.

His chief interest outside work is clay pigeon shooting, at which he is no mean performer. During the past three years he has amassed about 40 trophies, won in various competitions, local and national. He is a married man with one

When Mr. Eagles, Divisional Manager, presented his gift, Ted replied that he had always enjoyed his years with the Company, chiefly because of the people with whom he had had the privilege of working with. He commented that we have a fine humb of reserved as Tellitarties.



Harry Rastall being congratulated by Mr. P. Burrows, Production Manager CMS. (B)

Harry Rastall, the Deputy OA Manager of CMS, ha qualified for his 25 years award, for which he selected canteen of cutlery. He has had a varied career with the Company since coming to us from HM dockyard where he served his apprenticeship. He had a period with Coffers, or London on Radar and Electronics. Within the Company he began in Guided Weapons, and AS & Pl, and was in at the beginning of the Wiring School. He joined CMS, as Inspecto on Printed Circuits until the closure of that activity when hi moved back into CMS. During the war years, he served in this

He is married, with a wife (who works in MASO) and two sons, one of which lives in South Africa whom he has visited



Jack Tranter receiving the congratulations of A.J. Colwell on

From the RN Dockyard, 25 years ago a young man decided to try his lack with the new firms starting up at the airpon site. Jack Tranter came to apply his skill as a Capstan Oper ator, and has remained. Starting as most did in those days in the emerging Aviation Division, he moved on to IND before going into TAC as a Wireman. From TAC he went into Fuse Division and bacame Chief Storelespeer. After Fuse Division moved away, Jack joined ACD, then IN and later ADD.

Mr. A.J. Colwell presented the selected gift of binoculars on Tuesday 31 October, at a gathering in the reception area

When Jack is not at the City & Suburban Club, he fills his time making up models from kits, of which he has quite a



Charlie Kettle in a happy mood with Mr. P. Burrows who presented the clock to mark his 25 years' service. (C)

Charley Kettle has been married for 36 years and has now also aread his 25 years' service award. He is also in Sheet Metal section of CMS. Previously with Short Bross, he volunteered for the RAF and became a rear air gunner in Halifax aircraft. He says he was young and single and the adventure appealed to him, but he would not be drawn to disclose his experiences, except to confirm that he was never

His working life began with Wm. Robinson of Maidstone as a tinsmith. Keeping to his trade, though the name changed, he has served in the various divisions of the company, starting

He describes himself as a young keep fit man, and enjoy all types of sport. His personal activities being the garden an greenhouse. He has a family of one daughter and one grand son. Christopher Morris who retired recently from his job as Storekeeper in Reprographic Dept will be remembered for his

His work brought him in contact with all sections of the company, and it is a tribute to his personality and efficiency, that on the occasion of his retirement, contributions to parting gifts came from every category of employee.

girls Came From every category of employee.

Chris joined the company in 1966 as a Trainee Wireman but in January 1967 he was appointed as a Storeman in the then MACD, and at the merger in 1970 was promoted Store keeper in FCD. In April 1973 he took over the duties of Storekeeper in Reprographic Dept, being responsible for the bonded store, and the efficient distribution to the users of the bonded store.

has a recognition of his service, and to wish him well in retirement, Mr. S.Clayton, on behalf of members of the department and all contributors, presented him with a silver salver, a cheque and an orchid for Mrs Morris, Chris suitably



Wally Ellen receiving the gift of a clock to mark his 25 years with the company. (C)

Wally Ellen (Walter Thomas to the fastidious) who works in the Sheet Metal production facility of CMS, qualified for

Cox, continuing with Sheet Metal in MAC, later in FID

A family man, he has five daughters and one son (the youngest) with 23 grandchildren and four great grandchildren. He says he can name them all!, and as his mother is still alive at 87 years, he can boast of five generations of the family. His interests out of work cover gardening and snooker and billiards.



Doris Russell and friends on the occasion of her 25 years

Sports and social club round up



* Events for Club Champions! Best eight out of ten events.

BADMINTON

CROSSWORD No. 13

The Elliott Badminton Club is now in need of playing members, as well as members generally. The Secretary would be pleased to give any information; he can be reached in AS & R Tech, Pubs. New Road, or on Medway 44433 (Ext 26).

NCS NOMADS IN BURHAM

One Tuesday of last November At euchre, crib and darts, The 'Nomads' dared to challenge us But they left with broken hearts.

Poor Allan, Mickey and Smerfy Les, Ted and Old Tom as well All vowed, mid-way through the evening They'd welcome the 'last orders' bell.

Allan and Old Tom sat down 'Gainst Bionic and Super Slim Old Tom started dishing out aggro But Bionic soon settled him.

The darts team claimed the board Was too d. d far from the floor, I won't embarrass them too much By quoting the final score. The crib partners sat in the alcove, Prepared for the ensuing battle But all that was heard from the 'Nomads' Was the ultimate, final 'death rattle'.

And now having penned these verses, In a land, where speech is free I simply can't understand Why the 'Nomads' won't speak to me

ELLIOTT PHOTOGRAPHIC SOCIETY Programme 1979

Jan 31 SOUND/SYNC evening. Progress report

Feb 7 LECTURE/DEMONSTRATION. Print fin-

SLIDE VIEWING. Selection of entry for

For your Diary

IN DIV

Annual Dinner & Dance 16 February 1979 Royal Star Hotel, Maidstone Dave Wilson Band — Cabaret ts £5 7-30 pm to 8 until 1 am Tickets £5

Insurance for Members of The Elliott Social Club

Motor Insurance—up to 25% special discount offered. Other usual deductions for limited drivers, voluntary excesses and no claims discount are available (minimum premium £20).

Household Insurance — a first class policy offering very ex-tensive benefits including replacement of damaged or lost items on a 'new for old basis' cost £2.50 for every £1000 covered (minimum premium £10).

Members should contact the Graene Blair representative who is in the canteen snack bar every Thursday after work at 3.30 pm

ACROSS

1. Rises and falls without hot air (9)
6. Fixed up a tree, maybe (5)
9. Search for or follow (5)
10. Flower graded on in season (6, 3)
12. Thouser graded on in season (6, 3)
12. The or time (7)
12. The or time (7)
12. The or time (7)
13. A new Post Office machine not man (4, 6)
19. Man obeyed Hitler's instruction (5, 5)
19. As cost county in one (7)
23. A Scot county in one (7)
25. Rented the Pump rooms out (3, 1, 3)
26. For the cat before the fire (6, 3)
27. To festen with squeeze (5)
28. Someone has removed it (6)

SOLUTION TO CROSSWORD No. 11

PRIZE CROSSWORD

www.rochesteravionicarchives.co.uk

CAN YOU HELP? 69th ENTRY - HALTON APPRENTICES RAF

Will all members of 69 Entry, who are interested in

Wg. Cdr. G.D. Rork,
OC Projects Wing,
Swanton Morley.

Wg. Cdr. G.D. Rork,
Swanton Morley 291 (Ext 365)

5 words.
Entries please to:
Editor MAv News
Mazzanine Floor, Tower 1
marked 'CARTOON' to arrive
not later than 12 March 1979.
A prize of £5 offered for sender

of most apt caption, as selected by the Judges. Editor's decision is final, and no correspondence can be entered into.