

MARCONI AVIONICS NEWS

House Journal of Marconi Avionics Limited

MOTTO FOR THE MONTH
 "Too much rest is rust" Shakespeare.

Marconi Avionics to supply head-up displays for Danish Draken Aircraft

Development and production options total £3 million

Marconi Avionics Limited, the world's foremost manufacturer of pilot's head-up displays (HUD), has been selected by the Royal Danish Air Force, Air Materiel Command, to supply HUDs for RDAF 35KD Draken Aircraft. With production options, the total value to the Company is expected to exceed £3 million.

Marconi Avionics Airborne Display Division, Rochester, has already received a £600,000 order for development and for the supply of prototype equipment, for integration by Lear Siegler Inc, Instrument Division, of Grand Rapids Michigan, in its new weapon delivery and navigation system for the Draken. The

HUD system enables pilots to see, in focus with the view ahead, an image of symbolic information for piloting, navigation and weapon aiming.

Marconi Avionics will supply its advanced 900-series HUD for the Draken, incorporating a proven repertoire of display symbology and the aiming calculations of air-to-air weapon delivery modes. These include the very successful SNAPSHOT gunsight, favoured by a number of air forces for its effectiveness under air combat conditions.

First deliveries of the 900-series equipment are to take place in mid-1981.



With this issue we are completing three years of publications and, like all birthdays it is a time for celebration, analysis and decision taking.

We began in a modest way, with just four pages but quickly progressed to six and then on to eight, with occasional 12 page issues. There have been some colour editions too, and we hope that our offerings of 'something for everyone' has fulfilled our aims laid down three years ago.

During this time we have been privileged to share in the Company achievements, the expansion of personnel to around 5500, the building and occupancy of Corsair Unit, the near completion of Phase III building, the occupying of many 'Portakabins' and the development of 6½ acres for car parking, as well as the new development at Nailsea. This together with the winning of orders from USA, China and the homeland, augers well for the future.

The days ahead will require the utmost dedication of knowledge and skills and our personal attitudes will, of necessity, require adjustment and adaptation to ensure the Company remains pre-eminent in its field and with a reputation of efficiency, accuracy and reliability.

In MAV News, we hope to reflect these things and to continue to progress along the lines so far done. But, just as the Company can only realize its ambitions by everyone combining together, so your newspaper can only succeed if everyone will take a part, show interest, give items, report on activities you know of, and become part of it. Take it home, to bring the family together, and don't be afraid to suggest items, comment, or otherwise let us know how you feel.

As we are 'the Company'—we must be in it together.

BRITISH SAFETY COUNCIL AWARDS

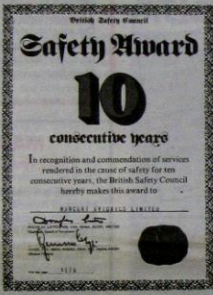
For the 14th consecutive year, the Company has qualified for a British Safety Council Award by achieving a lower accident incidence rate than the national average for our type of industry.

Statistics for 1979 show that whilst our Company's accident incidence rate was 3.516 that nationally it was 13.4. We suffered six lost time reportable accidents, resulting in 824 man hours being lost out of a total 3,489,613 man hours worked.

For the first year an additional award was presented to those achieving ten consecutive years as award winners.

The achievement of an award is the result of a year-long effort on the part of management and employees to maintain a high level of safety.

The Awards were presented at a banquet held at the Grosvenor House, Park Lane, London.



LIBRARY

"One of the girls dropped their pill in it, and now it won't reproduce"

SERVICE AND DESPAIR PART 2

CANTEEN

"Day in a road accident,Is it badly damaged"

BUYING

"I failed the typing testBut passed the physical!"

PLANNING

"Blimey! I've got 'em working nights"

DESPATCH

WORKSHOP

"All I said to the wife was that I'd be working in the cleanroom today"

www.rochesteravionicarchives.co.uk

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Rod Cole, MASD
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Others are required for: *AS & R (New Road), LATE,*
COO, GYRO, ISD, PSD, ADD,
RAS.

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



COMPETITION TIME

Here is a competition for young and old alike. It can also be the basis of a family evening, as a change from watching the 'box'. Try your hands (or minds) and submit your entries to *MAV News* Competition, Tower 1, Airport Works, Rochester, to arrive not later than 30 October 1980. The editor's decision will be final and binding.

DOUBLETS

This form of word puzzle was extremely popular with the Victorians, Lewis Carroll was, in his own day, far better known for his skill in compiling doublets than for writing *Alice in Wonderland*.

The idea is to take two related words, of the same length, such as PIG and STY and transform the first to the second by a series of one letter changes, each change must be another word. Proper names are excluded and all words must be in a dictionary.

As an example we give one method of changing PIG into STY (Note! there is no correct way of doing doublets)

PIG—WIG—WAG—WAY—SAY—STY (5)

Now for the competition:

Change the following in as few changes as possible.

1. Prove that GRASS is GREEN
2. Evolve MAN from APE
3. Raise ONE to TWO
4. Change BLUE to PINK
5. Turn WINTER into SUMMER
6. Put ROUGE on CHEEK
7. Make WORD into DEED

Write your answers, as per the example above, giving the number of changes in brackets.

The winner will be the one who correctly changes the seven doublets in the least number of changes. Complete the entry by giving name and address (or Div. or Depot).

Two vouchers of £5 each will be awarded—one for the ladies and one for the men.

Appreciation

We have received these two letters from two of the prize winners in our colouring competition.

Dear Mr. Griffiths,
I liked looking round the shops but it was very hard to decide what to buy with my token. I chose a Matchbox pick-up truck which can tow some of my toy cars when they break down.
Love from Andrew Collyer

275 Castle Road
Chatham
Kent
Dear Sir,
I am writing to tell you what I bought with my voucher that I won for colouring the picture of Santa Claus at Christmas. I bought a record by Leo Sayer called 'More than I can say', as I liked that record very much.
Thank you,
Tina Baston

INSURANCE FOR PRIVATE MEDICAL TREATMENT THROUGH BUPA

The special GEC-BUPA scheme has now been operating for one year, and since its launching over 12 000 GEC employees have joined while many more are waiting to join. On 1 November 1980, employees that have not already taken the option of becoming a subscriber will be able to do so.

Shown below are the comparison of monthly subscriptions paid under the GEC-BUPA scheme and normal BUPA schemes.

| GEC-BUPA Scheme Subscriptions | Single | Married | Family |
|-------------------------------|--------|---------|--------|
| Provincial Scale | £3.10 | £6.20 | £7.75 |
| London Scale | £4.51 | £9.02 | £11.27 |

| Normal BUPA subscriptions for comparison | Single | Married | Family |
|--|--------|---------|--------|
| Provincial Cover | £8.89 | £13.78 | £17.22 |
| London Cover | £9.31 | £17.82 | £22.27 |

To date 55 of our employees at the Rochester establishment have utilised the services provided by the GEC-BUPA scheme and have been greatly satisfied with their treatment.

GEC-BUPA SCHEME VOLUNTARY SUBSCRIPTIONS

If you wish to discuss the benefits of the scheme please complete this section and return it to J.M. Neate, Personnel Department.

NAME DATE

DIVISION DEPT CLOCK NO

CASTAWAY

We have selected Dennis Adams, a Quality Technician in AS & R to be our victim. Cast away on a lonely island with only a record player and small library to keep him company — his choice of music and books would be:

MUSIC

1. Autumn Leaves by Mantovani—in memory of a very dear mum.
2. No Regrets by Edith Piaf—in memory of a certain lady.
3. Silent Night by the Viennese Boys Choir—reminding me of Christmas long ago.
4. On The Quarter Deck by RM Band Portsmouth Division—a bracing tune, just the job to start the day.
5. Strangers In The Night by Frank Sinatra—ideal when having my late night coconut cocktail.
6. Up Side Down by Diana Ross—an incomparable artist and a fitting tune to retire with.

Books

1. Castles of Kent by J. Guy—nostalgic days.
2. David Copperfield by Charles Dickens—for the dark nights.
3. Book of Selected Poems by Spike Milligan—just to keep me sane.

A collection to revive and stir up memories!

NATIONAL FIRE SAFETY WEEK

National Fire Safety Week commences on 27 October 1980 and concludes on 3 October 1980, during which period it is hoped, with everyone's help, that the number of fires will be dramatically reduced.

Fire losses, nationally, are increasing daily, with those for 1979 exceeding £1 million per day. In the first five months of 1980 the figures have risen to almost £2 million daily.

The third largest fire loss ever recorded in the UK, which occurred in North London and was estimated to have cost £31 million, resulted in an increase in the fire damage estimates in Great Britain (England, Scotland and Wales) in July to £63.2 million. Six other fires involved losses of over £1 000 000 and 22 over £250 000. Add to this the loss of life, pain and suffering as a result of injury and the loss of jobs, means that we all have a part to play.

With a few simple rules we can make our daily lives safer and free from fire.

So let's have a fire free week in Kent!

The following are intended for your guidance:

AT WORK

DO YOU KNOW:

- How to raise the alarm in case of fire?
- What to do should the alarm sound?
- Where the fire exits are?
- Where to assemble should the building be evacuated?
- The position and type of fire extinguishers in your area
- How to operate the extinguisher?

AT HOME

DO YOU:

- Have your mains electrical supply checked?
- Keep fireguards securely fixed around the fire places?
- Keep plate racks over gas cookers free from tea towels?
- Keep matches and lighters out of sight and reach of children?
- Stand portable oil heaters out of the line of draughts?
- Turn off and unplug electrical appliances before leaving the house or going to bed?
- Wet and empty the contents of ashtrays before leaving the house or retiring for the night?
- Close all doors before going to bed?
- If you have to leave children get a reliable friend or relation to take care of them?

ON HOLIDAY

YOU SHOULD:

- Check the nearest fire alarm call point to your room
- Check fire exit routes from your room
- Discover the position of fire extinguishers
- Ensure smoking materials are properly extinguished and placed in ashtrays provided.

Marriage

We offer best wishes and our congratulations to a one time confirmed bachelor, in the person of Alan Corbitt on his marriage to Coral Neat. The wedding took place at Twyford Church on Saturday 6 September.

Alan is the Chief Production Engineer of FCD and Coral works within the scheduling section of FCD. As a token of good will and best wishes they were presented with a slow cooker, coffee grinder, teapot stand, icing set and cookery book(?) by Mr D.K. Webster, Production Manager of FCD.



Alan and Coral being literally showered as they receive gifts on the occasion of their marriage.

CONGRATULATIONS

BIRTHS

We offer our congratulations, and those of all members of CMS, to Sylvia and David Stockbridge on the birth of a son, Gary Peter, on 27 September.

Gary weighed in at a healthy 8lb 2/ozs.

David the proud father is employed in CMS as a L.H. Inspector.

21st BIRTHDAYS

Our congratulations and best wishes are extended to:

Beverley Golding, ISD Engineering—20 September.

Ian Gower, ISD Drawing Office—1 October.

Steve Rodrigues, ISD Programmer—9 October.

MARCONI AVIONICS HALIFAX SAVINGS SCHEME

There are now 500 accounts being conducted under the Marconi Avionics Group Savings Scheme with the Halifax Building Society. Mortgage applications totalling more than £675 000 have been made to the Halifax at Chatham by Marconi staff during the year ended 31 July 1980.

These figures show how popular and successful this scheme has become. Not only does the salary deduction method of payment offer a simple and painless system of saving, but the Halifax offers a number of savings schemes designed to meet most needs.

In addition, the opportunity may be taken to join the 'Homeloan' scheme for those buying a house for the first time.

If you would like further information about the Group Savings Scheme, please contact John Neate in Personnel Department, or:

Tony Batchelder—Assistant District Manager, Halifax Building Society

The Scottish Amicable Life Assurance Society continues helping our employees

You can win with Flexidowment

Flexidowment—the modern flexible plan for savers

It offers these advantages:

Flexibility
The benefits are provided in units costing £1 per month (minimum £8.00 per month)

Benefits when needed
The guaranteed benefits plus bonus of one or more units can be drawn at the 10th or subsequent anniversaries

Protection
In the event of death each unit provides valuable life cover plus bonus additions.

Tax relief
Premiums are normally payable net of relief—currently 17.5% of each premium.

If you are seeking an attractive investment which could help you in the future if you need—
A new car * A deposit to buy a house * To meet an unexpected financial emergency * To boost your pension and give life cover

For further information contact:
John Neate, Personnel Department (int. 203 ext. 447)

The GEC National Business game 1979/80

For several years now the GEC College of Management at Dunchurch has run a computer-based business game which has been open to teams from all GEC companies.

This year we decided to use the game as part of a training activity for more junior supervisors to give them an opportunity to experience aspects of running a business which they had not encountered to date.

In the event 14 teams, each of five people, were entered from the following Divisions:

| | |
|----------------|---------|
| MASD | 3 teams |
| FARL | 3 teams |
| ADD | 2 teams |
| GYRO | 1 team |
| IND | 1 team |
| ISD | 1 team |
| ATE | 1 team |
| AS & R | 1 team |
| Accounts Dept. | 1 team |

There are four principal functions to be managed by the five team members—sales, production, material procurement and finance—which allows one member to try his hand at being team leader—or 'managing director'.

The business—N.B.G. Limited—which has to be managed by the team, manufactures and sells 'consumer durables' of which there are three models, being one standard and two sizes of deluxe model. The teams do not actually make the items but they do have to plan the operation of the business; their plans are fed into a computer which then provides a print-out of the results, for the next stage.

The company purchases raw materials, machines these in its own machine shop and then assembles them, together with other parts which are brought-in complete, in its assembly shop into the completed models which are delivered to retail outlets and distributors against specific orders.

The members of the team have to decide at each of seven stages of the game what price they want to charge for each model, how many they wish to make, what raw materials and assembly parts they wish to use, what raw materials and assembly parts they wish to order

and the manufacturing priorities, all the time watching their cash flow and profit. And, of course, orders received are not necessarily in accordance with the numbers made!

Points are awarded to the teams depending on how well they have managed their business at each stage and the 'winner' is the team which has the highest score at the end of the game.

At the end of the game, teams from FARL(2), GYRO and IN Divisions, were placed in the top ten nationally, out of 130 teams playing, the teams were:

| | | |
|------|---------------------|------------------|
| FARL | led by Andy Fordham | placed 3rd |
| GYRO | led by Colin Dawes | placed joint 6th |
| IND | led by Fred Rowe | placed joint 6th |
| FARL | led by Ray Dennis | placed joint 9th |

Andy Fordham's team, being one of the top three nationally, went up to Dunchurch for the play-off on Saturday 23 June, where they maintained their placing.

As far as the Rochester 'league' is concerned, although Andy Fordham's team from FARL came top, the game was hard-fought all the way, and in the early stages there was much interchanging of places, it is interesting that, with the exception of one team, none of the final top four at Rochester was within distance of winning until the fifth round of the game; in the fourth round the winning team was actually lying eleventh.

Honours were well distributed, the team with the highest mean placing was the GYRO Division team led by Colin Dawes but the team with the most consistent performance, never varying by more than three places above or below their starting point was a team from ADD led by John White. The team showing the most improvement on their second round place, climbing from 10th in the second round to joint second after the final decision, was the IND team led by Fred Rowe. Sharer of second place was the team from Gyro Division.

Although the top team was the winner, there were no losers because all teams gained from experience of the game and from working in a group different from their normal one.

R.W. McCall
Training Department

Apprentice activity

The following apprentices will complete the period of their agreement in November and will become active in the Departments and Divisions listed below:

| | |
|-------------|----------------|
| M.A. Conner | CAC Inspection |
| J.R. King | ISD Inspection |
| J. Marks | PSD Planning |
| K. Taylor | ADD Test |
| T.W. Wilson | ATE Test |

Appointments

We announce the appointment of Mr. P.J. Hewlett to the position of Commercial Manager in Instrument Systems Division.

Consequent to the appointment of Mr. R.W. Whelan as Commercial Manager of Marconi Avionics Inc. Atlanta, the appointment of Mr. M.J. Austin as Management Information Officer at Rochester, reporting to Mr. E.C. Hawley, is announced.

Suggestion Scheme

The scheme continues to make progress and suggestions are being submitted but, even so, more could be done. There must be potential for a greater number of suggestions and there could be rich rewards for anyone coming up with a really outstanding idea.

Among the latest recipients are:

- Mr. N. Honner, ISD** Cutting the preparation time for telex tapes, affecting labour costs and general routines of telex transmissions.
- Messrs P. Colton, CACD C. Sandy and R. Hooper** Concerning the test fault finding on the Harrier Pitch, Roll and Yaw computers.
- Mr. A. Thomas, GYRO** An aid to ensure all sensors present a correctly-balanced load to test equipment.
- Mr. G.E.A. Povey, IND** A jig to hold switches while soldering wires to switches

Nailsea Nippits

The small town of Nailsea, situated eight miles south of Bristol is the site of the new MAV plant. The plant is situated in a rural setting and is being developed on the site of an old cider works. The cider works, of Coates Cider fame, was demolished early in 1980 and the new construction started in June, the first phase will provide 80 000 ft² of floor space. The developers plan to leave what remains of the old cider orchard and, coupled with new trees to be planted, offers a very pleasant setting for the future.

The area surrounding the site is pleasing to the eye and is a unique amalgam of industry and rural England.

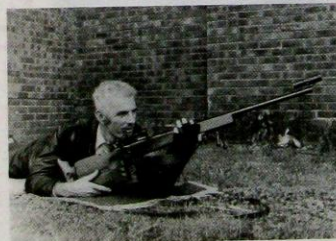
In close proximity to the site is a large four storey block which is the temporary home of the MAV Nailsea Operation. The areas of business in the Division are power supplies for avionic type applications, offshore projects, which are mainly monitor and control of subsea oil and some general avionic activities.

Currently 97 personnel are employed at Nailsea and this number is expected to rise to 130 by the end of the year, marking the first anniversary of the Nailsea Division.

One of the employees, Mike Phelan, has recently been very successful in his favoured sport of 22 Rifle Shooting. He originally took to the sport in Australia and became the Victorian State Rifle Champion in 1974. Mike has now become the Avon County 50m Rifle Champion taking the Britton Challenge Cup gaining 598 points out of a possible 600. He modified his Anschütz rifle by replacing the stock with one of his own design and manufacture completing this modification three weeks before the championship.



Nailsea premises being developed.



Mike Phelan with his modified Anschütz rifle.

Atlanta Activities



The above photograph was taken at the recent Army Aviation Association of America (Quad A) exhibition held in Atlanta on 10-13 March 1980 and shows Sales Engineer John Bolton describing the Automatic Map Reader to important visitors to the show; also present is Harry Eagles, President, Marconi Avionics Inc. Left to right: Harry Eagles; John Bolton; Major General James H. Merrymen, Commander, US Army Aviation School; Colonel Wayne Knudson, Commander, Sixth Armored Cavalry Combat Brigade; Brigadier General Designate John C. Bahnsen, Assistant Commander, Second Armored Division; Colonel Nathan M. Pulliam, Aviation Officer, Headquarters USA Europe. The Automatic Map Reader is a new Company product in which US Army circles are showing considerable interest and the device is being jointly developed and manufactured by Instrument Systems Division at Rochester and Marconi Avionics Inc. in Atlanta.



Marconi Avionics' John D. Bolton (center) Marketing Engineer, and Wayne W. Stokes (second from left), Marconi Automatic Map Reader (AMR) Program Manager, brief from left to right: Colonels Bill Hobbs, Headquarters, Forces Command; Darwin A. Petersen, US Army Aviation Research and Development Activity, Fort Monmouth; and John J. Stanko, Chief, Army Aviation Division, National Guard Bureau; and Lieutenant Colonel Marion J. Goodin, Commander 210th Aviation Battalion, Canal Zone on the AMR. The Automatic Map Reader is a new Company product in which US Army circles are showing considerable interest and the device is being jointly developed and manufactured by Instrument Systems Division at Rochester and Marconi Avionics Inc. in Atlanta.

Ode to QA—MASD

I know that you know
I've decided to go.
I've been here a year
With you and your beer.
It's not been that bad
Apart from your Cad.
And sports cars galore
Well need I say more.



We've ping pong on phone
And motor car drone.
Pies eaten in tons
And kinky cream buns.
For mostly its pubs
And all sleazy clubs
I've dopped all the air
For the lampshades grown hair.



I've not got the sack
But I'll get off your back
With all my bad jokes
And vodka and cokes.
I'll see you one day
Near Christmas let's say
I'll give you a shock
Wearing only one sock.



I hope that you will
Think of me still
As someone who cares
For someone who wears
A best West One jacket
That cost him a packet.
I'll leave it at this—
A verse and a kiss.

Trudi Austin

Lost articles — Lost articles

Many people within the works lose items of personal property from time-to-time. When these are found and handed in to the security team it can be recovered by application to them. However, items are found and no enquiries for them received, therefore we shall from time to time publish a list of unclaimed property and should you feel that it belongs to you send your enquiries as directed at foot of list. Items held awaiting claimants:

1. Lady's wrist watch.
2. Gold-rimmed spectacles.
3. Lady's silver-coloured ring with initials.
4. Pair bi-focal spectacles.
5. Wrist watch—Swiss make.
6. Cigarette lighter.
7. Pair lady's spectacles.
8. Lady's silver chain.
9. Gent's gold ring.
10. Clip-on coloured spectacles.
11. Silver chain.
12. Cigarette lighter—Ronson.
13. Lady's blue folding umbrella.
14. Silver chain with stone.
15. Safety spectacles.
16. Rosary.



Enquiries to:
Security Supervisor: Mr. David Peggie. (Int 209)

PHASE III



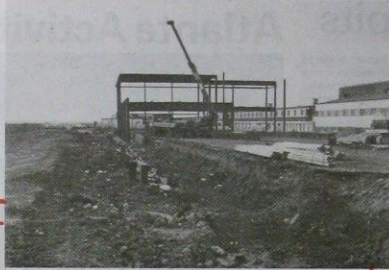
In the beginning - November 1978.



Piles down and steel up - March 1979.



First hole in the car park - November 1978.



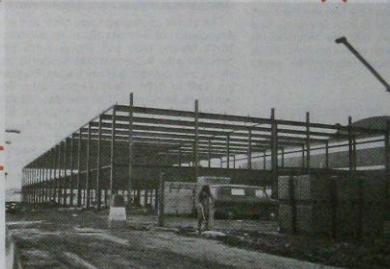
Erection of frame, simultaneous with diggings.



As the occupation of Phase III Building pictorial record of the development prior to the selected pictures, with captions, to the aerial view showing the new surroundings for the building. We trust that the new surroundings for the building will bring about greater and better successes, both in order and in the future.



The snow highlights the foundation plinths - January 1979.



The shape of things to come - April 1979.



The floor is laid - August 1979.



Portakabins take the load while the building grows - January 1979.



The roof is on! June 1979.

BUILDING

g is moving to its completion, we give a
to its formal opening.
over the progress from the clearance of the
hole site and the enlarged new car park.
r CACD and FCD will help them to achieve
ers and productivity.



Upper storey floor laid, ground floor unfolds - January 1980.



Internal segregation, shows things to come - May 1980



Lighting installed, work can go ahead - March 1980.



Carpeted and waiting for the arrivals - September 1980



...and so that's what it looks like! May 1980.



The storage racks grow together - September 1980



The enclosure of the building almost complete - November 1979.



At long last the occupation begins - the first of many.

25 YEARS' SERVICE



Patrick Hobson. (C)

Twenty-five years service award to Patrick John Hobson, Senior Application Engineer/Customer Liaison, ATE Division who told us . . .

"After leaving school I was pressed into tele-communications by my father who was himself an engineer, but it was not until two years before the war that I found what I thought was the joy of life, flying around the countryside as a trainee wireless operator/navigator in an RAF Auxiliary Squadron, the 504 City of Nottingham (Bomber).

By the time I was demobilised from the RAF Pathfinders after the war I was almost a native of Huntingdon, birthplace of Oliver Cromwell and home of the Acoustical Manufacturing Co. Ltd., designers and makers of QUAD Hi-Fi equipment. I continued my engineering career by joining the staff of the A.M. Company Ltd., where I took part in the design and build of the very first QUAD valve amplifier. The quality and performance of which gained A.M. Company Ltd., a handsome contract with International Aeradio, which I was privileged to manage (Dr. O'Kane was the man at International Aeradio in charge of the contract).

The second significant task for me during that period was the evaluation and pre-production of the original BTH 'Clearcall' System, significant because 'Jim' Glover (who joined Elliotts 25 years and seven days before I did) was the senior draughtsman at BTH involved in the contract.

My stay with the A.M. Company Ltd., saw the birth of the first full range electrostatic loudspeaker and many innovations in hospital equipment and other areas, including a direct interest in the first speaking robot built at Cambridge University and called (you will never believe it!) P.A.T.

I reluctantly left the A.M. Company Ltd., eight years later

after a personality problem and joined the Plessey Company as Engineer-in-charge of a Production Aids Laboratory, but stayed less than two years, during which time I bought a glass vane X Band wave guide attenuator from Peter Mariner then Chief Engineer of the Radar Division, Elliotts, Borehamwood.

Elliotts academic approach was much more to my liking, so I joined them in August 1955 as a senior engineer in the Radio and Radar Division. My first job was to design a stable platform using magnetic amplifiers, to be used in horizontal rota blade aircraft. My second job was as Project Engineer on unexploded bomb location gear using magnetic crossforms based on the same principle of magnetometer techniques used during the world survey of the magnetic poles. The third and last job in this Division, TLU5, a three target Radar range and bearing system for the Navy.

Other Divisions and Projects include:

- Fuze Division - Special Oscilloscope for checking nuclear bomb fuzing mechanism. (Project Leader)
- Naval Weapons Division - Submarine fitted wire guided control system for the MK23 torpedo and a portable torpedo simulator. (Project Manager)
- ATE Division - 'Mermaid' ATE for checking 13 LRUs from the MK24 torpedo. (Project Manager)



Mr. C.R. Reese (left) with Mr. R. Howard (R)

Further members of the Senior Management Team have qualified for membership of the Long Service Association, by completing 25 years' unbroken service.

C.R. (Ray) Reese, completed his period in the summer, having started as a Development Engineer in the Aviation Division at Borehamwood. Progressing through the engineering grades as Project Leader on Lightning Programme to Chief Engineer and arriving in Rochester as Chief Engineer in MAC.

In 1967 he was promoted to Divisional Manager, AEID and

became Joint Divisional Manager when AEID merged with FID to become ISD.

He then moved to the Flying School end, as Divisional Manager, ATE, and latterly as Staff Executive responsible for management and co-ordination of programmes. He was seconded as temporary Divisional Manager of IN when sickness overtook the incumbent of that office. In 1979 he was again appointed to Divisional Manager of ISD.

An athletic type, he is still active in Rugby (Union) football currently as captain of the Maidstone team. Among his other activities, he lists gliding and showing his love for 'being borne aloft'.

Before coming to Elliotts, he spent 3 years with STC at New Southgate, London, and joined Elliotts on the recommendation of a former colleague at STC.

Mr. R. Howard, Director and General Manager made the presentation of a clock.



Mr. D. Jackson takes a look at the binoculars. (D)

Derek I. Jackson, began his career as a Development Engineer at Borehamwood, engaged in the Hydraulics Laboratory of Research Division. In 1958, he began work on auto-pilots (VCI) Flight Control Project and he too progressed developing within the science of automated aircraft controls. In 1966 he joined MAC at Rochester and was appointed Chief Engineer, later becoming Manager of the Division. Promoted to Divisional Manager on the merger of MAC and TAC into FCD, he retained his position of Divisional Manager until late 1979 when he became Assistant General Manager responsible for the three Rochester Divisions specializing in aircraft controls.

Educated at Manchester University, he has a wide variety of interests including golf, bird-watching and photography. Mr. W.H. Alexander presented him with binoculars on the occasion - no doubt to get the ornithological specimens into clearer view.

To Pastures New

Maritime Systems Division recently lost one of its most exciting members, when Lynn Mannell left to join her husband at Portsmouth where he is stationed, being a member of the Armed Forces. For four years Lynn was with the Company and as John Goodhand's secretary became known to both the production and engineering sides quite well.

A vivacious and lively person, she was a participant in all kinds of sporting activity, both indoors and out. A great help in running the divisional social activities as well as drumming up support for such ideas as 'Gals v Lads' football matches.

Lynn hopes to be able to keep in touch with her many friends, as it is her intention to seek employment with MSDS at Portsmouth. No doubt we shall soon be receiving a challenge from Portsmouth to do battle in some recreation or other with Lynn, either as organizer or leading member.

On leaving, she was presented with a wrist watch to remind her of the many friends and acquaintances she left behind.



Lynn Mannell receiving her watch from Mr. J. Goodhand (A)

Memories

In the past, but not forgotten
The wonderous childhood days.
When mystery surrounded us,
Things happened in strange ways.

The wonders of the sea-side,
The magic of the town,
Yet its beauty of the country
For me most memories abound.

The tallness of the trees there
The vastness of the field,
Beauty showered around me,
As we walk down through the weed.

No pylons built by man
To scar the generous view,
Just the dark green foliage
Of the tall and straggling Yew.

Under foot no ugly concrete,
So cold so bleak and grey
Just the lovely carpet
Of grass to pave my way.

No tread marks of the tractor
No oily patches too,
Just hoof marks of some cattle
And the sparkle of the dew.

Oh! Happy days of childhood,
As we run across the moors,
We played a game of hide and seek
In among the tors.

No towering buildings did there
Reach into the sky,
'Twas just a bright blue heaven
Where eagles learn't to fly

No factories spewing poison
In rivers as they flow,
Only the flash of sunlight
On fishes we all know.

The singing birds the wandering herds
The freedom of the hills
This surely was a haven
For little boys and girls.

The question to be asked now is
What will our children see,
And will their childhood memories
Be like mine are to me.

Gordon B., AS & R Division



IT'S NOT PEANUTS - BUT -

COMING SHORTLY - YES - ITTYTTTTER!!
(NEXT MONTHS)
ISSUE

THE RETURN OF
OFF THE BEATEN
TRACK.
STARRING
BLANCO
SILVER
WONDER DOG

WITH MORE ADVENTURES IN
"THATCHER-ISED PASTURE-ISED,
REDUNDANT AND RETIRED
LAND!"

AFTER 23 WINS - A RECORD - RECEIVING
HIS GOLD BONE FOR LONG SERVICE
AND A CARDBOARD REPLICA OF ROCHESTER
STADIUM, HE FACES UP TO A SEDATE LIFE
OF EASE WITH ADD'S SYNDICATE OPERATOR
AND HATCHET MAN

FRED KELLY

BLANCO TRIES HARD TO ADJUST -
FRED TAKES HIM TO A FIVE-A-SIDE
FOOTBALL MATCH . . . CHRIS COVENEY AND HIS GANG
OF FIVE (MAD) FANS, VERSUS ADD TEAM AND GOALKEEPER
(BIONIC) PETER SCOTT - BIRD FANCIER AND APPRENTICE

LEARNING A FOREIGN LANGUAGE

by Leslie Trafford
ISD Technical Publications

(continued)

The fourth and final way of learning a foreign language (the three other methods were given in the September MAV News) is undoubtedly the cheapest but, make no mistake, the most difficult and therefore suitable for only a minority of especially dedicated people. It is of course, to go along to your Public Library and borrow a selection of comprehensive grammar books pertaining to the language that interests you, and then, quite simply out that a good knowledge of English grammar is essential, for most of these books are compiled, or written by grammarians for grammarians, and do not therefore carry any simplified explanations of difficult points in grammatical constructions often encountered even in the early stages, neither will be found any explanations of the grammatical terminology used. The task, though difficult, is not insurmountable but many years of book-learning will be required to grasp the fundamentals of the language, accompanied by many hours of listening to the radio, or any other sources of the spoken word to break through the comprehension barrier. To succeed, and to have done it alone, can bring rewards that must be experienced to be appreciated. In choosing this method of learning, the advantages of having a radio-cassette player cannot be over-emphasised; to be able to record back as often as required to gain a full understanding of what has been said can prove to be of enormous benefit to any student, especially to those in the more advanced stages. A good source of material for recording will be found in the broadcasts put out every day by the 'Overseas Foreign Language Service' of the BBC. A Postcard sent to this department will bring you a pamphlet entitled 'BBC London Calling' giving the times of the day for all broadcasts in all languages. These pamphlets are usually sent free of

charge. The best reception in this area will be found on 468 metres in the medium wave-band, but try also the 75, 49, 41 and 31 metre bands short-wave.

In passing, it may be worth mentioning that it is possible to enrol in a residential course for the major European languages in one of the many colleges on the Continent that cater especially for the summer holiday term student. These no doubt offer excellent facilities for anyone with real ambition; to live and study abroad, working and mixing with the people there for six to eight weeks can add real fluency to any advanced students necessary time, or money, to indulge in this type of educational opportunity; a great pity; nevertheless, these opportunities do exist for the fortunate few.

In conclusion then, what is the sum total of what I have tried to say? In short it is this: To all those among you intending to learn a foreign language, whether it be one of the popular European ones, such as French, German, Italian, or Spanish, perhaps something more ambitious, Russian for example, or even one of the two great classics, Latin or Greek, the message is the same. You have in front of you now a difficult, but by no means an impossible task; perhaps many years of dedication to study. All thoughts of learning a language in three months must be forgotten but the rewards that are waiting to be reaped from your ultimate success, cannot be over-estimated.

Learning a language is more than the acquisition of a lot of new words and unfamiliar phrases; it is an introduction to a new way of life, the gateway to a fuller understanding of the world in which we live. The opportunities will exist for you to gain a new insight into the country whose language you are studying; its history, its civilization (past and present), the development of its culture, such as its literature, its poetry, its music, but

most of all you will begin to understand the people of the country whose language, though strange at first, will become as familiar to you as your own.

It has been said that a man who speaks one language is worth just one man, but a man who speaks two languages is worth two men. Our world today is relatively small, but it is inhabited by dozens of different civilizations using literally many hundreds of different languages and these subdividing into thousands of dialects. It is not much then, to ask from one another, to try to learn just one other language.

The reluctance to become involved in a project that demands so much of one's spare time can readily be understood, but I think that once the ground-work has been accomplished, the need to continue can become obsessive; one just has to go on.

To all intending students I will say; start now, don't give up when things become difficult, join foreign language groups and societies, meet as many foreign people as you can, mix with them, listen to them, but above all, talk to them, use the language that you have learned, no matter how limited your vocabulary, you will be surprised at the encouragement you will receive and when you discover for the first time that you really can converse in another language, you will know that all those hours spent studying have been worth-while.

I have written this article in response to the many inquiries I have received recently about the difficulties in learning another language, and the best way to go about it. Although methods of study must be a personal thing, I hope I have answered some of the questions for some of the people who have spoken to me on this subject.

Everything I have said is based on my own experience in the study of the French language over the past twenty years. If just one person then, has been encouraged to embark on the long journey to success, this article will have been worth the effort put into it.

IT'S GOOD SENSE TO JOIN MANOR HOUSE HOSPITAL

When you're fit and well it's not unnatural to assume your good health will continue. But an illness serious enough to mean a stay in hospital can still be a secret dread. The National Health Service offers superb care and we can enter hospitals confident of receiving some of the finest treatment in the world. However, due to the pressure on our hospitals we may have to wait some time for a bed and a second opinion, should we want it, may be difficult to get.

For a mere 20p a week you can have peace of mind, knowing that should you fall ill a bed will be available for you at Manor House or Inverforth hospitals in London.

Manor House Hospital is a non-profit making organization, independent of the National Health Service and supported solely by the weekly contributions of its members. It provides an additional and independent specialist health service and any member with a health problem can attend for an opinion and/or treatment.

Eminent consultants

The hospital's own team of medical and surgical consultants is supported by eminent consultants who are on the staffs of many of



the London teaching hospitals. Last year 5153 patients were admitted for treatment and 3336 operations were carried out at the organization's two hospitals and over 30000 out-patients received treatment and advice.



If you are interested in joining Manor House Hospital you can do so through Marconi Avionics as we are one of the many industrial and commercial concerns whose employees support the organization. It



costs just 20p a week for a single person or 40p a week, if your spouse is to be covered too. For monthly paid staff the cost to cover husband and wife is £1.74 a month.

Further information can be obtained from your Welfare Officer Mrs. E.C. McMillan, Sister Gordon or your Union representative. Also an application form to join Manor Hospital will be enclosed in your wage packet in the very near future.

FORTHCOMING EVENTS

BEST DRESSED DOLL COMPETITION

all entries to be in by
8 December 1980
3 prizes

Get your doll (free) from Social Club Office

3rd ANNUAL CAROL SERVICE and GIFT and TOY SERVICE

Monday, 15 December 1980

Gillingham Baptist Church

Carol sheets provided

Elliott Concert Brass Band

All dressed dolls will be put on the Christmas tree. Gifts of toys, games, etc. suitable for children up to 15 years old will be gratefully accepted and hung on the tree.

CHILDRENS PARTIES

These will be held in the canteen on
Saturday 29 November
Saturday 6 December

29 November Girls Yellow ticket
Boys Green ticket
6 December Girls Pink ticket
Boys Blue Ticket

Collection of toys will be held on Monday 8 December and Tuesday 9 December at 12-15 to 1-20 pm each day, in the main canteen.

Around and about in Kent

The village of Horsmonden, situated some four miles south-east of Paddock Wood on the B2162 is well worth a visit.

It is said that the Oast House Towers are sail-like and appear to plough the rich soil of their Kentish hopfield like graceful yachts on a gently rolling sea, and sail-like, their wind vanes turn the angled cowls with the breeze to create a vacuum inside, that draw up hot air to dry the hops on their slatted floors below. This is the garden of England and the village is surrounded by orchards and pastures, as well as hopfields - though it once echoed to the clangour of iron founders, who used the plentiful timber and water power of the area to make Cannon.

The church is partly 14th century and is of sandstone with a buttressed 15th century tower. Within you can see a wall plaque recording one Simon Willard, who went to America and founded the city of Concord in New Hampshire. The centre of the village is a neat square green, known as the Heath. The village suffered from the plague in the Middle Ages and the homesteads may have shifted from the old site. There was a forge in the village owned by one John Browne who was gun maker to Charles I and Cromwell and, according to legend, also the Dutch Navy who were at that time our maritime enemy. Look at the Gun Inn, beside the green, and you will see a copy of a gun made by John Browne, which is now in the Tower of London.

If you visit in July you can witness sheep sales on the village playing fields, to which come buyers from all over the country. This is a continuation of the old traditions before the land was turned over to growing hops in the 16th century.

A track along Furnace Lane leads to a pond, known locally as Hammer Pond from which water power was used in medieval days to drive hammers, which beat iron into shape.

The Photographic Section, might find it a useful place to do some practice work. Some wonderful pictures could be captured - Ed.

Kitchen Kapers

Sweets or supper dishes

HAMPSHIRE ROLL (6-8 portions)

Ingredients: 4oz sugar
4oz butter
2 beaten eggs
4oz flour
pinch salt
1lb peeled, cored and sliced cooking apples
3oz apricot jam

Method: Cream sugar and butter, beat in the eggs and fold in the sifted flour and salt. Spoon half this mixture into a 2pt greased pie dish. Arrange the apples and jam on top and cover with the remaining mixture. Bake in the oven at 350°F (gas mark 4) for 45 minutes and serve hot with a sweet sauce.

HAMPSHIRE DROPS

Ingredients: 4oz butter
4oz caster sugar
2 eggs
4oz cornflour
4oz plain flour
½ teaspoon baking powder
jam

Method: Sift the flour and baking powder and lay aside. Cream the butter with the sugar until fluffy, beat in the eggs and mix in the cornflour and sifted flour and baking powder. Beat to a fairly stiff consistency. Drop teaspoons of the mixture on to a greased baking tray(s) and bake for 30 minutes at 325°F (gas mark 3). Leave the biscuits to cool, then sandwich together with jam.

ASHBURTON OPEN PASTIE (6-8 portions)

Ingredients: 1lb puff pastry
¾lb stewed, fresh, or dried fruit
mincemeat
jam

Method: Roll out the pastry, ¼" thick, to a rectangle, twice as long as it is wide. Spread the filling over the pastry, to within 1" of the edges. Fold the edges towards the centre of the pastie and bake for about 20 minutes, at 425°F (gas mark 7).

Sports and social club round up

ELLIOTT PHOTOGRAPHIC SOCIETY

Opening Night

Some 50 members and visitors attended the opening cheese and wine evening on 10 September. There was a display, depicting the work of the members, including items of club work, prints and transparencies and a working studio complete with model. The whole evening was a success and everyone taking part had an enjoyable time.

K.C.P.A. Slide Competition

The annual K.C.P.A. slide competition is open to all photographic clubs in Kent, with a requirement of submitting eight colour transparencies.

In the 1980 event, held recently, Elliott Photographic Society was placed 18th in an entry of 29 clubs. A personal triumph and a club success was in the awarding of a Certificate of Merit to Mr. E. Sponder, Vice Chairman of the club, for a slide captioned 'The Fire Eater', which received a maximum 10 marks!

A public viewing of the work and presentation of prizes took place at Folkestone on Saturday 4th October, when Mr. Barry Evans, F.R.P.S., the judge of the competition gave his report and comments. Those who made the journey were rewarded with a viewing of the exhibits and helpful comments on the entries and standards generally.



The model in a pose for the cameras.



Getting down to it—close-ups and angles.



A group of enthusiasts.

FIVE-A-SIDE FOOTBALL: MONDAY EVENING LEAGUE

| Latest results: | | | | |
|-----------------|-----|-------------------|---|--|
| FCD | 0 v | MASD Prod. Office | 5 | |
| FCD Stores | 6 v | Apprentices | 0 | |
| CACD | 2 v | Accounts | 3 | |
| CMS | 1 v | ADD | 2 | |
| MASD Test Dept | 4 v | ATE | 8 | |

| League table to date: | P | W | D | L | F | A | PTS | Diff |
|-----------------------|----|----|---|----|----|----|--------|------|
| Division | 13 | 12 | 0 | 1 | 51 | 23 | +28 | |
| MASD Prod Office | 13 | 10 | 0 | 3 | 51 | 29 | +28 | |
| ADD | 13 | 10 | 0 | 3 | 49 | 24 | +25 | |
| FCD | 13 | 7 | 1 | 5 | 52 | 33 | +19 | |
| MASD Test Dept | 13 | 7 | 0 | 6 | 35 | 36 | 14 - 1 | |
| FCD Stores | 13 | 4 | 1 | 8 | 49 | 47 | + 2 | |
| Apprentices | 13 | 4 | 0 | 9 | 34 | 48 | - 14 | |
| CMS | 13 | 4 | 0 | 9 | 25 | 43 | - 18 | |
| CACD | 13 | 3 | 0 | 10 | 31 | 60 | - 29 | |
| Accounts | 13 | 3 | 0 | 10 | 31 | 64 | - 33 | |

The committee running the competition would like to thank and congratulate the members of CMS team in particular, for turning up each week and entertaining the spectators so admirably.

ARCHERY SECTION

The 12th Annual Elliott Invitation Tournament was held at the Featherby Road ground on Sunday 31 August 1980.

Results are as follows:

SENIOR SECTION

- 1st Lady**
Sladden Rose Bowl, Sheila Morris—Elliots, 141-987-10
- 1st Gentleman**
Brett Cup, Larry Lewis—Weald, 144-1155-29
- Senior Team of four**
Elliott Cup, Allington, 3825
- Married Couple**
Darley Chalice, B. and J. Parfitt—Allington, 272-1857-21
- Highest Unrewarded Elliott Archer**
Committee Cup, Len Stone, 141-984-11
- 2nd Class Winner**
Dave Kingdom—Elliots, 140-945-10
- Unclassified Winner**
John Hunter—Gravesend, 134-863-6
Ray Durrant—Black Lion, 138-829-4

JUNIOR SECTION

- Champion Girl**
Rose Bowl, Debbie Stilling—Weald, 141-960-11
- Champion Boy**
Cox Shield, Gary Rogers—Gravesend, 143-1067-15
- Junior team of three**
Elliott Junior Cup—Elliots, 2574
- Handicap Improvement Award**
Gary Rogers—Gravesend, +23 to +6
- Metric I**
S. Newman—Allington, 135-890-8
- Metric II**
Boys: T. Sellings—Elliots, 140-984-16
Girls: J. Jenkins—Elliots, 97-472-3
- Metric III**
Boys: M. Garlick—Gravesend, 142-972-13
Girls: D. Newman—Allington, 132-881-10
- Metric IV**
Boys: C. Rogers—Gravesend, 143-1047-15
Girls: D. Stilling—Weald, 141-960-11

The Club Lady Paramount, Brenda Sanders, presented some of the awards. Sheila Morris—Elliots, Barry Parfitt—Allington, A. Shulver—Elliots.

72 archers took part in the shoot, under Ray Sanders who acted as Director of Shooting, in weather that was fine and sunny but with a left to right crosswind which challenged the archers.

MARCONI AVIONICS XV

A rugby match was played between the MAv XV and Northampton Casuals XV on Sunday 28 September.

The final score was Casuals 14, MAv 4. This is in no way a true picture of the standard of play. It was a fast, clean game by both sides. Perhaps MAv were somewhat laggardly in getting it together in the first half but, all things considered, for a strictly first-off game as a team, this cannot be used as a criticism. The only criticism should be levelled at first the people selected to play not turning out and secondly the promised supporters not showing up. Come on chaps (and chapeuses) either you want a rugby club, or you don't.

The team that played on Sunday was:

- | | | |
|-----|------------------|------------|
| No. | Name | Position |
| 15 | Martin Ratcliff | Full Back |
| 14 | | |
| 13 | Kevin Hambleton | Wing |
| 12 | Paul Reed | Centre |
| 11 | Neal Johnson | Centre |
| 10 | A. N. Oiler | Fly half |
| 9 | Clint Elliott | Scrum half |
| 8 | Martin Coleman | No 8 |
| 7 | Malcolm Smith | Flanker |
| 6 | Ian Hunter | Flanker |
| 5 | Graham Moore | Lock |
| 4 | Richaveil Clover | Lock |
| 3 | Vic Fisher | Prop |
| 2 | Martin Davies | Prop |
| 1 | John Lauder | Hooker |

Ref: Mike Tomsett

There will be a general meeting to be advertised shortly for present members, and all other interested people, to attend and to discuss training programmes, future fixtures etc. We need more players, or people who would like to play, so, as soon as it is announced, please come along.

Your immediate contacts are—Clint Elliott—FCD
Vic Fisher—CACD

MUSIC IN THE CLUB-HOUSE

| | |
|------------|-----------|
| NOVEMBER 1 | INCROWD |
| 8 | STUFF |
| 15 | 22 CARAT |
| 22 | SPIRAL |
| 29 | THYME |
| DECEMBER 6 | MESCALERO |
| 13 | ZEBEDEE |
| 20 | AURA |

FOR YOUR DIARY

COMPANY DANCE

Royal Star Hotel,
Maidstone
Monday 22 December

PARACHUTING

If you are interested in Parachuting, contact Harry Stiles in AS & RD (int.244).

The normal cost of a one day course, held at Headcorn Parachute Club, is £48, but if a party of 10 persons or more can be arranged the price is reduced to £43 each. This is inclusive of the first parachute descent and third party insurance.

We have about 70 persons within Marconi Avionics who have done some parachuting already over the past year and a half but it is felt that there are many others who may be considering the matter.

As it is an experience one should not miss and if you want further advice or information to help you decide, get in touch with Harry right now and you will soon be 'as free as a bird'!

'65 CLUB

Over 80 members attended the September meeting of the Elliott '65 Club, held as usual in the club-house, Featherby Road.

There was a produce and gift show and all exhibits were sold for club funds, realising over £3.

The speciality of the evening was a cooking competition. 1. Madeira cake, 2. Victoria sandwich, 3. Coconut slices, 4. Sausage rolls.

There was a total of 21 entries for the four classes and the judge was Mr. C. Peck a retired Master Baker of Gillingham.

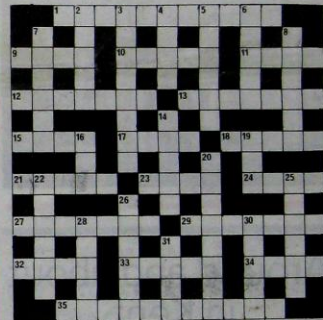
Prize winners were:

- | | |
|------------------------|--------------------------|
| Madiera Cake | 1st Mrs. Noel Drew. |
| | 2nd Mrs. Belsom |
| | 3rd Mrs. Frances Haslett |
| Victoria Sponge | 1st Mrs. Dunn |
| | 2nd Mrs. Carpenter |
| | 3rd Mrs. Fox |
| Coconut slices | 1st Mrs. Fox |
| | 2nd Mrs. Boorman |
| | 3rd Mrs. Hankey |
| Sausage rolls | 1st Mrs. Belsom |
| | 2nd Mrs. Boorman |
| | 3rd Mrs. Collins |

All were to recipes supplied by the club.

CROSSWORD NO. 29

Compiled by R. Cole, MASD.



ACROSS

- Egyptian Pharaoh (11)
- Surname of author of 'Corridors of Power' (4)
- One of the golden fruits of Hesperides (5)
- Magistrate (slang) (4)
- Small sailing vessel (7)
- Scottish borough on shores of Loch Lomond (7)
- World famous Brazilian (4)
- Part of the eye (4)
- Deciduous conifer (5)
- Doorless paw (5)
- Inflamed swelling of the eyelid (4)
- The highest point (4)
- Capital of New Hampshire (US) (7)
- Netherland province (7)
- Small mountain lake, thanks to Royal Navy (4)
- Zodiac sign (4)
- Young herring (4)
- French ballroomist (11)

DOWN

- United Nations victory for Leshworth Archdioced (5)
- Against the rule of law (8)
- Fleet topped military cap (4)
- Species of porcupine (6)
- Brown coloured pigment (5)
- Said plant (6)
- Stellar measurement (8)
- Piebald horses (5)
- Measurement of length (3)
- Turkish Commander (5)
- A lycanthrope (6)
- A god and river in chest (6)
- Stout brown wrapping paper (5)
- Neck adornment (6)
- Division of long poem (5)
- Hard twisted cotton yarn (5)
- Musical term - with spirit (4)

For amusement only

SOLUTION TO CROSSWORD No. 28

ACROSS
1 Arm of the law, 9 Usher, 10 Brainless, 11 Nosis, 12 Pins, 13 Freitas, 15 Nurpers, 16 Yolande, 17 Thaste, 19 Cholera, 21 Sulle, 22 Heat, 24 Cuba, 25 Exchequer, 27 Title, 28 Chest Anchor.

DOWN

1 Amos, 2 Mark, 3 Fabrics, 4 Heaney, 5 Longfellow, 6 Wharren, 7 Running to seed, 8 Estate manager, 14 Weather eye, 15 Exhaust, 19 Chagrin, 20 Equator, 22 Duets, 25 Eteh.

Photographic taken by the Staff Photographers unless otherwise indicated on the following pages: (A) Alan Kain, (B) Leonard Jones, (C) Laurie Coates and (D) Albert Marshall.

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