

ARL NEWS



MR MITCHELL

APRIL 1968

No. 8



· FOR ARL STAFF ONLY ·

SOCIETIES, CLUBS AND ASSOCIATIONS

C.S.C.A.

Hon. Branch Sec.
Norman W. Ferguson,
Stores Office,
Ex. 24.

C.S.B.F. (Benevolent Fund)

Mr. C. J. Borrill,
Sec. Kingston Local Committee
of Civil Service Benevolent
Fund, G Group, U/L Ex. 7.

C.S.S.G. (Sanatorium Soc.)

Treasurer,
Mr. E. R. Holly, Admin.

N.P.L. Music Society

Mr. K. Ellis,
A.P.U. U/L Room 444, Ex. 45.

H.S.A.

Sec. Sister Hammett,
Room 28, Ex. 300.

C.S. Sailing Assn.

Admiralty Link,
H.C.W. Mayer, Room 40, Ex. 224

N.P.L. Sports Club

A.R.L. Rep.,
G. P. Barlow, Ex. 33.

A.R.L. Stanton Cup Convenor

Mr. H. Hood, Ex. 9.

The Rose Society

Sec. Mr. Lenihan, U/L G Group.

S.T.C.S.

R.N.S.S. (London) Branch
Sec. W. Parrington, D.O. Ex. 116.

United Kingdom Civil Service Benefit Society

Local Sec., Mr. J. Gleeson,
Stores Office, Ex. 24.

Upper Lodge Club

Sec. Mr. M. Murray,
Group G, Ex. 83.

Motoring Association

Mr. Redmayne,
Workshop, Ex. 225
Mr. C. J. Borrill, U/L Ex. 67.

I.P.C.S.

Mr. D. White, Group L Ex. 214
Mr. G. Knight, Group D, U/L, Ex. 77.

Canteen Representatives

Miss M.G. Edwards, U/L,
O Group, Ex. 76.
Mr. Warwick, D/O Ex. 308/133.

Would the Secretaries and representatives of any other groups or associations who would like to be included in future editions - please notify Mrs. P. Ward, Admin. Ex. 124.

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Editorial

It is doubtful whether the Queens Road part of A.R.L. has ever been quite so congested before as it has been in recent months.

To add to the normal difficulties of car-parking, there have been a series of Post Office and contractor's lorries and vans coming and going in connection with the new EAST Block and the installation of the Private Automatic Branch Telephone Exchange. And to cap the lot a deep trench has existed for months which prevents vehicles from moving in the normal direction of travel at peak times. However, hope is round the corner, in the East to be exact, with a promise of adequate car parking facilities for some time to come.

J. R. Gibb

W H O G O E S W H E R E ?

ARRIVALS

<u>NAME</u>	<u>GRADE</u>	<u>GROUP</u>
Mr. A. Ramage	(Ty) C.O.	A.H-B.R.E.
Mrs. A.M. Balne	(Ty) Sci. Asst.	D
Mr. R.J. Panter	A.E.O.	O
Mr. B.R. Fuller	Artificer T.G.II	E(W)
Mr. J.D. Coker	A.E.O. (on trial)	A.P.U.
Mrs. M.P. Mabbs	(Ty) C.A.	L
Mr. R.W.L. Manning	Leading Draughtsman	E(D.O.)
Miss B.A. Dennis	(Ty) Typist Grade II	Typing Pool Centre Block
Mrs. I. Howard	E.O.	M
Mr. R. Conway	AUWE Sandwich Course Student	M
Mr. D.W. Fuller	Lab. Mechanic	E(W)
Mr. G. Robinson	Lab. Mechanic	E(W)
Mr. W.H. Castlehouse	Lab. Mechanic	E(W)
Mr. J.E. Mowbray	Lab. Mechanic	E(W)
Mr. B. Bradley	Lab. Mechanic	E(W)
Mr. F. Downes	Skilled Labourer	E(W)
Mr. C. Downes	Skilled Labourer	E(W)
Mr. J. Wynn	Skilled Labourer	E(W)
Mr. F.V. Hansell	Porter	Admin.
Mr. S.J. Jones	Porter	Admin.

CONGRATULATIONS TO

<u>NAME</u>	<u>GRADE</u>	<u>GROUP</u>
Mrs. E.D. Tanner	C.A. (on probation)	Admin.
Miss M. Hayward	Actg (Ty) C.O.	Admin.
Mrs. M.D. Lewis	Telephone Operator with allowce.	Tel. Exch.
Mr. J.W. Cumber	(Actg) S.E.O.	L
Miss P.A. Ching	(Actg) S.E.O.	L
Mr. B.B.E. Death	S.E.O. (confirmed)	M

CONGRATULATIONS (Cont'd.)

Mr. C.A. Groombridge	(Actg) Ldg. Draughtsman	E(D.O.)
Mr. I.R. Hebblethwaite	Sci. Asst. (on probation)	D
Miss D.E.A. Barlow	(Actg) C.O.	Stores Office
Mr. B.A. Moses	Draughtsman (confirmed)	E(D.O.)
Mr. B.J. Hunt	Draughtsman (con firmed)	E(D.O.)

Special congratulations to:

Mr. L. J. Aylott on the occasion of his marriage.
Mr. T. Nightingale on the birth of his son (Shaun).

DEPARTURES

<u>NAME</u>	<u>GRADE</u>	<u>GROUP</u>	<u>TO</u>
Mr. R.A. Mayer	A.E.O.	E(R)	Resigned
Mrs. L.F. Blake	E.O.	M	Resigned
Mr. J. Dalgleish	(Ty) A.E.O.	AH-BRE	Resigned
Mr. T.F. Dunn	(Ty) Sci. Asst.	AH-BRE	Resigned
Mrs. B.K. Chitty	(Ty) Typist II	Typing	Resigned
		C/Block	
Mr. I.A.W. Halliday	E.O.	Library	Invalided
		U/L	
Mr. L.E. Mayes	E.O.	Info &	Resigned
		Library	
Miss M.D. Williams	C.O.	Stores	ENSTS as ANSO
		Office	(on trial)
Miss B.E. Stocking	C.O.	Admin.	Invalided
Mr. R.E. Penfold	E.O.	E(R)	AOL Brentford
Mr. F.S. Burt	D.C.S.O.	G	A.U.W.E.
Mr. J.W. Hollis	Skilled Lab.	E(W)	Resigned
Mr. R.C. Histon	Lab. Mechanic	E(W)	Resigned
Mr. F. Goodway	Skilled Lab.	E(W)	Resigned
Mr. A. Weed	Skilled Lab.	E(W)	Resigned
Mr. S. McKee	Hired Indus.	AH-BRE	NTTF Alexandria
Mr. T. Ford	Lab. Mechanic	E(W)	Resigned

DEPARTURES (Contd.)

Mr. A. Filsell	Lab. Mechanic	E(W)	Resigned
Mr. A. Shambrook	Storehouse Asst.	E(W)	Resigned
Mr. D. Potter	Ord. Labourer	E(W)	Resigned
Mr. W.G. Quick	Exp.Worker V	E(W)	Resigned

THE NEW EAST BLOCK

The photograph on the front cover is of the new building at Queen's Road; no doubt many of you have heard this building call-d the "Nenk" building, and have tried to find a meaning for this peculiar word.

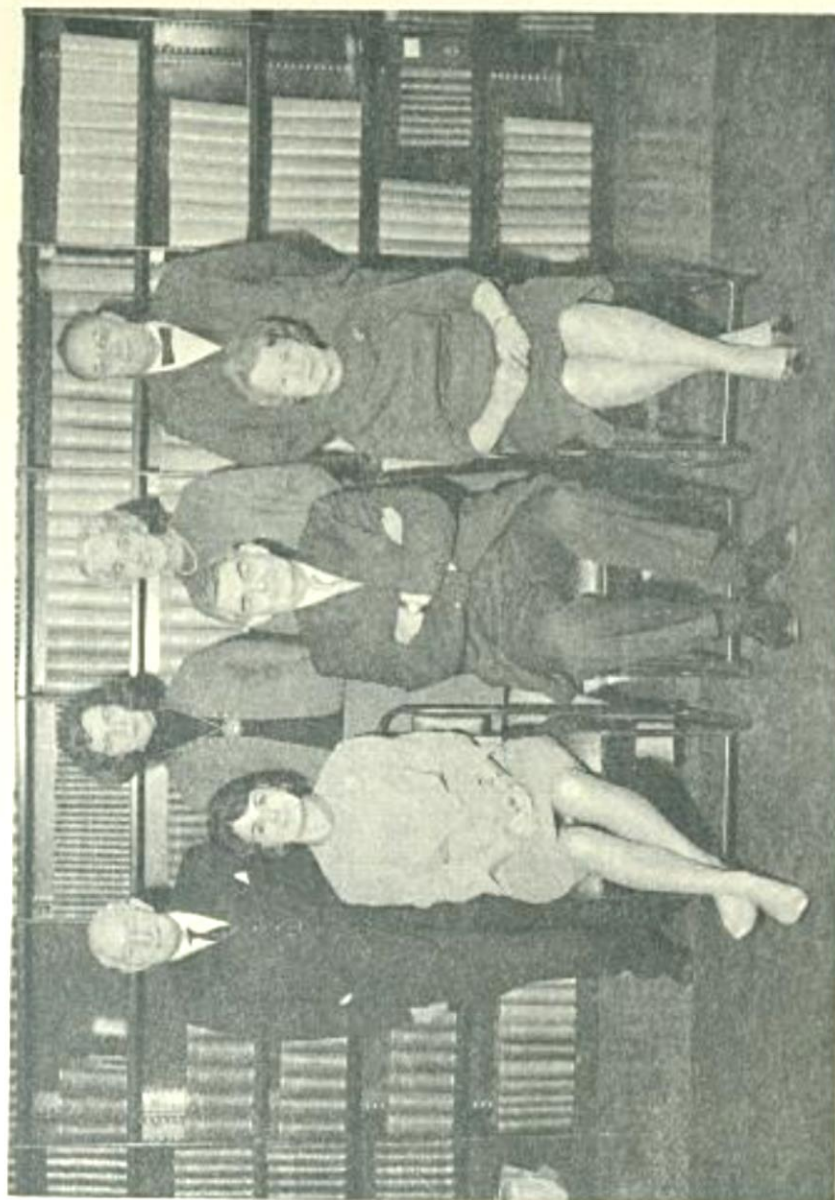
The "Nenk" method of building is named after David Nenk who was joint head of the Architect's and Building Branch of the Ministry of Education from 1950 to 1955. He was a member of the Weeks Committee which recommended the setting up of a civilian Directorate of Works at the War Office.

David Nenk died at an early age, and because the Ministry of Public Building and Works felt that they owed so much to his wisdom; they obtained permission from the Nenk family and Ministry of Education, to name the new method of building after him.

R. de B. May - Group E.

MR. E. C. PULESTON, PHOTOGRAPHIC SECTION

The A.R.L. News Committee are sorry that Eric is leaving A.R.L. as he has done so much towards the production of the magazine. However as he is going to H.M.S. EXCELLENT, Portsmouth on promotion, our sorrow is tempered with joy and good wishes for his future.



Information Section and Library

Mr. A. Bayliss, Mrs. D. I. Bonome, Mrs. D. V. Pound, Mr. E. Stevens

Mrs. E. R. Garrod, Mr. L. E. Mayes, Mrs. G. D. R. Joss

THE A.R.L. INFORMATION SECTION

In 1917 Sir Richard Paget investigated the possibility of detecting submarines by the use of seals trained to swim towards underwater noise targets. Performing seals were taken to the swimming bath at Great Smith St., Westminster, and encouraged by rewards of herrings to come on to a bell ringing under water. To borrow a euphemistic phrase from a report of a later era, "the experiments were not a success but much valuable experience was gained." The records of the many and various experiments undertaken in the course of the battle against the submarine menace during the 1914-1918 war are part of the archives of the Board of Invention and Research, later the Department of Experiment and Research, and copies of many of the reports as well as original manuscripts, are held in A.R.L.

In spite of Marshall McLuhan ("The medium is the message"), the written word is still, in 1968, the preferred method of recording what an experimenter has done, and at the present time far more than in 1917, co-operation between defence laboratories is carried on by interchange of reports. And in a wider sphere, results of scientific research are shared by way of published papers, which must therefore be made available.

The humble but necessary task of procuring, recording and distributing published and unpublished literature for the staff of A.R.L. is the job of the Information Section. This consists of the Library and Technical Records and there is a branch at Upper Lodge covering both aspects. Several thousand reports are received in A.R.L. every year and similar numbers of copies of published journals. The latter are displayed week by week in the Centre Block and Upper Lodge Libraries, the former are circulated to the most interested groups and listed in the weekly accession lists. The periodicals displayed in the Main Library could be more used than they are for "current awareness" purposes, but the move of this library to the ground floor should

make it easier for all staff to pay, say, a weekly visit.

Those visiting the library for the first time will find that the books (and bound volumes of journals) are arranged in subject order. The library staff will be glad to help new users to find the sections of special interest to them. Some of the books will be out on loan at any given time, but the card catalogue, arranged under author, subject and title, is a complete record of the stock of books, specifications, pamphlets, etc.

Many readers do not seem to be aware that all unclassified reports are shelved in labelled boxes in the libraries under the name of the originating institution, so that an extensive if not complete file of, say, D.T.M.B. or N.R.L. reports can be perused in just the same way as numbers of a periodical. All reports, Classified and Unclassified, are of course recorded in Technical Records even if they have only come to us on loan.

The staff of the Information Section will be glad to make the subject index of reports, Classified and Unclassified, with its alphabetical key list of subjects, available for searches. More use would show up any defects and enable it to be improved, but even as it is, it is a useful tool.

The Library Committee was created as an advisory body to ensure that the needs of the Groups as regards the supply of information were being met as far as possible and to make suggestions for improvement. The Group representatives are:- Dr. Soole (Chairman), Mr. N. Wood, Mr. Scovell, Mr. Norman, Dr. Cook, Mr. Merriweather, Dr. Wilson and Mr. Rockliffe. Members of the Groups are asked to contact their Group representative if they have a question or suggestion.

L. E. MAYES

Ed. Note: Mr. Mayes has now left A.R.L. and we wish him success in his new venture into outside employment.



KDF9 COMPUTER EXPANSION

At the beginning of 1961, M group sought approval for the replacement of its Pegasus computer with a very much more powerful KDF9. By the time the KDF9 computer was installed at A.R.L. early in 1965 it was becoming clear that this expensive machine was still not going to be large enough to cope with some of the jobs that were coming along. Also it was apparent that a computer large enough to cope with the big problems would also be able to do the smaller ones much more rapidly. No single R and D establishment in the Navy Department would produce by itself enough computing work, at least for some time to come, to justify the cost of a machine that was large enough for the big jobs. Therefore it was decided that establishments should share a few large computers via data links (which were described in the third issue of A.R.L. News) rather than each having its own smaller computer. The first stage in the implementation of this policy has been to considerably increase the size of the KDF9 at A.R.L., providing a powerful computer for naval R and D work. Four other establishments already have data links and others will follow in about six months time.

Expanding the computer and using data links requires not only more equipment but also more staff and space. Unfortunately the additional space will be the last to arrive. The demolition work going on round the gear-cutting workshop is, we hope, the forerunner of the erection of two extra floors above there to provide space for extra staff and equipment. In the meantime, M group is trying to design a double-decker desk in order to fit everyone into the existing space.

The main part of the computer expansion has been a big increase in the KDF9's storage space for programs and data, but other additions that will be of interest to potential users are as follows:

- a) A fast output printer has been attached that is 1000 lines of information a minute.
- b) The graph plotter previously operated offline by Group G has now been attached to the computer.
- c) Direct access to the computer via typewriters will be possible for a number of users simultaneously.
- d) A standard IBM-compatible magnetic tape station has been attached.
- e) An interface has been fitted for attaching special equipment to the computer, such as an incremental magnetic tape reader for data from trials and experiments.

An additional capability acquired as the result of expanding the computer store is to run efficiently large computer programs written in the FORTRAN language. There are many more computer programs written in this language than any other in the world, and it will now be possible to get some of these that are of use to the Navy Dept. running on KDF9. There are many dialects of the FORTRAN language in use and the transference of the programs to KDF9 will often not be straightforward, but nevertheless this new capability will prove very useful.

F. STEEL

TO MEMBERS OF THE TEA SET

Does your palate enjoy the taste of any of the following brands:

P.G. Tips Brooke Bond Dividend (Green and Red) Edglets

Brook Bond Tea Bags Blue packet Red packet or Purple packet

if so, will you please, after enjoying the contents, forward the empty cartons to the Tracing Office who are collecting them in the cause of charity. CLOSING DATE 30th JUNE, 1968 - THANK YOU.

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OUTING TO SPALDING - SATURDAY 4th MAY 1968

Leaving A.R.L. at 8.00 a.m. the party is due at Springfields, Spalding at approx. 12 o'clock, having stopped for coffee en route. A packed lunch will be served at Springfields, after which the party have nearly three hours in which to wander round this delightful floral spectacle. The flower parade is due to pass the main gates of Springfields at 3 o'clock, after which the party leave for PETERBOROUGH, and an opportunity to visit the beautiful Cathedral there. A four course dinner will be served at St. Neots en route for home. The party is due back at A.R.L. at approx. 10 o'clock. The price inclusive of coffee, packed lunch and dinner is:-

52 or more	-	35/-	per head
41 - 51	-	37/6	" "
29 - 40	-	40/-	" "

Minimum number 29

Last year a party of 65 had a thoroughly enjoyable day, and it is hoped this year for at least 52 people to come.

Anyone interested please contact:-

MRS. CHANDLER - STORES OFFICE

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FROM A GOVERNMENT BILL OF 1770

That all women of whatever rank, profession or degree, whether maids, or widows that shall from and after such Act, impose upon, and betray into matrimony, any of His Majesty's subjects by the scents, paints, cosmetic washes, artificial teeth, false hair, rouge, iron stays, hoops, high-heeled shoes, and bolstered hips, shall incur the penalty of the law now in force against witchcraft and like misdemeanours, and that the marriage upon conviction shall be null and void.

THEATRE CLUB

A very enjoyable social evening was had in January by forty members of A.R.L. Staff and friends at the N.C.O. Club, U.S.A.A.F. Base, West Ruislip, as guests of T.W.A. (Trans-World Airlines) who were visiting the base at the invitation of the N.C.O. Club. This was arranged for us by Mr. Dave Rees. Dancing to the resident band and entertained by a floor show, we were served an excellent supper of Steaks, mixed veg., potatoes and rolls. As a result of this evening, Mr. Gonzales invited 150 A.R.L. Staff, families and friends to visit the base again on 14th March.

Please contact Mrs. D. Tedrekin, Group E, Ext. 220 if interested for future visits. Transport is arranged from A.R.L. and when possible, pick up points on route. Approx. cost 4/6d. per person.

On 23rd February, 1968, ninety seven members of A.R.L. staff, families and friends visited The Adelphi Theatre in the Strand to see 'Charlie Girl', starring Anna Neagle and Derek Nimmo. A further visit to Drury Lane has been planned for 26th April to see Harry Secombe in 'The Four Musketeers'. All 81 seats for this show have been sold.

CONGRATULATIONS

Mr. R. A. Kencroft of M Group has been awarded a prize by Kingston College of Technology for his performance in the H.N.C. (Maths) examinations last summer.

JUST A THOUGHT

Would A.R.L. staff be interested in a scheme to pay for a guide dog for the blind. Enquiries and offers of help to G. B. Holt, Security Office, Centre Block.

BEHIND THE SCENES - ARTHUR LOVE



On joining A.R.L. in 1955, the last thought in Arthur's mind was that a week-end hobby would become his full-time job. This however, came to pass, for in 1957 he took over the duties of Gardener - a task he has performed with the utmost fidelity.

With a temperament ideally suited to do combat with Mother Nature, he has endeavoured to maintain, year by year, as Spring merges into Summer, a feast of colour for all who have eyes to see. What is not so obvious is the work which must precede this final achievement and we record, most sincerely, our thanks to him, who in spite of all that the weather can do, never disappoints us.

His labours bring pleasure not only to us but to our many visitors and friends and also to his feathered friends who have joined his sanctuary as permanent guests or who just call in for "bed and breakfast". Special mention must of course be made of that dear old lady of the pond, "Sue", who doesn't care who knows that she thinks the world of him.

100 NOT OUT!



It is not known widely as it should be that A.R.L. enjoys a high reputation in the world of science, in many of the fields of research engaged in, and that this is largely due to the efforts of a few of its more outstanding members. A good example of such a scientific ambassador is David Weston of L Group, whose published papers on underwater acoustics recently reached the satisfyingly round number of 100!

This impressive total has been mainly built up since 1951, when David joined A.R.L. from Imperial College, and not surprisingly, many of the 100 papers are in the form of A.R.L. Reports and Notes. However David has always been keenly aware that scientific information must be widely disseminated to be useful, and he has managed to have 42 of these papers published in journals outside A.R.L. This is quite an achievement considering that much of his work is necessarily classified. All this has helped to make him a world authority in his subject, whose opinions are sought and respected on such topics as underwater explosions, or the extraordinary behaviour of the fish in the sea. He is particularly well known in the U.S.A. where he recently worked for a year as an exchange scientist.

Within A.R.L. he is known as a prolific generator of ideas, and wins admiration for his deft handling of theory to fit the often awkward or baffling facts. He combines a becoming modesty with a generous nature, and will give unlimited time to helping and guiding junior staff. Even his weakness for intricate puns is forgiveable, though one suspects he gets sadistic enjoyment out of the groans which invariably follow these! In his spare time he greatly enjoys long tough walks in the country, an activity he

shares with his wife Joyce, and sometimes with their baby daughter too. He also skis, plays regular tennis and badminton, and is ready for any other outdoor activity which presents itself.

David's contribution to science was officially recognised last year with the award of a Special Merit promotion to S.P.S.O.

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A.R.L. ANNUAL CHILDRENS' PARTY



Perhaps the happiest event in the social calender of A.R.L. is the annual childrens' party. It is certainly the best



supported. This year's was held on Saturday afternoon 27th January, and once again Glazebrook Hall rang to the merry sounds of some two hundred children enjoying themselves.

On arrival each of the young guests was regaled with ice cream before being turned loose among a wide array of sideshows and amusements. The sideshows ranged from traditional shies to appropriately scientific toys, including remotely controlled robots. A giant slide, new to the party this year, proved tremendously popular. The younger, and possibly more gentle, children found their way to the climbing frames and roundabouts of the kiddies' corner, and the more competitive became ready recruits for the party games.

After an hour or so at these activities reserves of energy were mustered to climb the stairs to the theatre for films and entertainment. Tom and Jerry were as popular as ever (with the adult supervisors as well as the children). The comedian who followed, displayed great versatility and energy and found no lack of volunteers to twist and play toy instruments on the stage.

Then came tea, and a drop in the noise level. Sausages, sandwiches, cakes etc. disappeared quickly. More entertainment followed upstairs, and finally the children were ushered in turn through a Toyland setting to the village shop, to receive gifts from two charming fairies with their Highland soldier escort.

The views of the children, frankly expressed as ever, left little doubt that the party was a resounding success. The Childrens' Party Committee wish to thank all those willing helpers who fetched and carried, prepared food, painted scenery, devised amusements etc. etc., and to whom much of the credit is owed for the success of the afternoon.

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MONOLOGUE - One Woman talking.

CATALOGUE - Two Women talking.

A WILL - to me or not to me that is the question.

A.R.L. ROSE SOCIETY

In the depths of winter it is pleasant to recall the beauty and scent of the exhibits of the Societies' 1967 shows. At the summer show the blooms were of such perfection that Mr. Simpson of the London Borough Parks, after judging the exhibits, stated that they were some of the finest amateur blooms he had seen that season.

It is a pleasure to extend thanks on behalf of the Society to the judges, Mr. W. Trigg, Mr. S. Simpson and Miss A. Cooper, to the Superintendent for his permission to use Room 201, and to all the helpers and exhibitors who made these shows so successful.

Incidentally if there are any readers with queries, the members of the committee are always available to give advice on rose growing. In addition they will gladly invite you to become a member of the A.R.L. Rose Society, or, if already a member, they will remind you that subscriptions are now due!

The Society looks forward to even bigger and better shows in 1968 and hopes that more visitors will take advantage of the opportunity to freely inspect some first class roses.

DIARY NOTE - SUMMER SHOW 25th JUNE 1968.

THE N.O.L. PLAQUE

Mr. D. C. Harnig, the United Kingdom representative of the United States Naval Ordnance Laboratory, on behalf of his Director Dr. G.K. Hartmann, presented to A.R.L. an N.O.L. Plaque to mark the close association of the two laboratories in a number of research activities.

The presentation took place in Room 201 Centre Block on Wednesday, 17th January when the Superintendent received the plaque on behalf of A.R.L.



(Mr. Denis Healey, M.P. and Mr. Burt in conversation)

Mr. F. S. Burt, Deputy Chief Scientific Officer and Head of G Group is leaving us to go to the Admiralty Underwater Weapons Establishment at Portland.

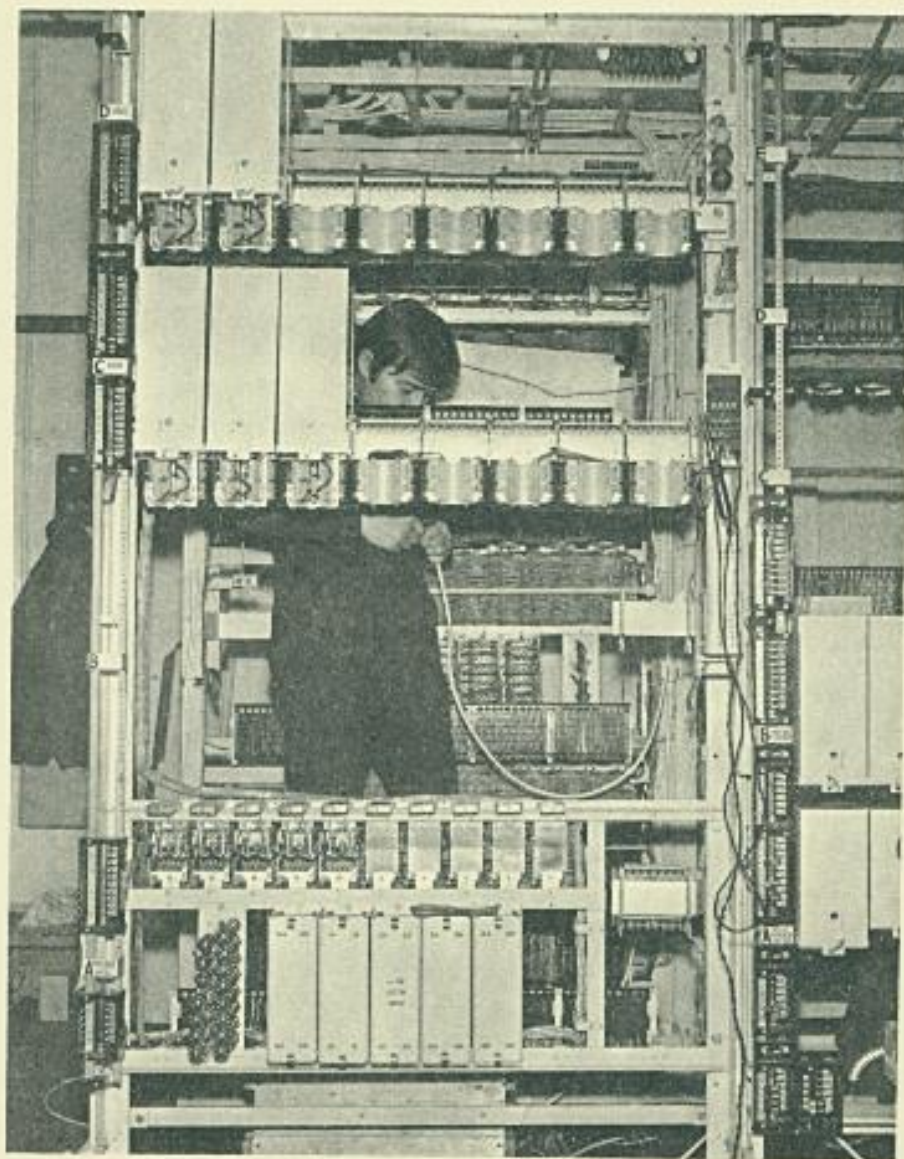
Mr. Burt's new post will be a promotion and have the twin titles of Deputy Director of A.U.W.E. and also Head of Torpedo Department. He joined the service in 1940 and has served both at Headquarters and A.R.L.

We shall still see Mr. Burt at ARL for a few days each week yet as he is in the process of winding up several jobs in hand.

We all wish Mr. Burt success in his new job and health and happiness for the future.

"DROP YOUR FOREIGN ACCENT

Dearest creature in creation,
Studying English pronunciation,
I will teach you in my verse,
Sounds like corpse, corps, horse and worse.
I will keep you Susy, busy,
Make your head with heat grow dizzy;
Tear in eye your dress you'll tear,
So shall I. Oh, hear my prayer,
Pray, console your loving poet,
Make my coat look new dear, sew it.
Just compare, heart, beard and heard,
Dies, diet, lord and ward,
Sword and sward, retain and Britain,
(Mind the latter, how it's written).
Made has got the sound of bade,
Say, said, pay, paid, laid but plaid.
Now I surely will not plague you
With such words as plague and ague
But be careful how you speak,
Say break and stead but bleak and streak,
Previous, precious, fuchsia, via,
Pipe, snipe recipe and chair,
Cloven, oven; how and low,
Script, receipt, shoe, poem, toe,
Hear me say devoid of trickery,
Daughter, laughter and terpsichore,
Typhoid, measles, topsails, aisles,
Exiles, similes, reviles,
Wholly, holly, signal, signing;
Thames, examining, combining,
Scholar, vicar and cigar,
Solar, mica, war and far,
From "desire"; desirable - admirable from "admire",
Lumber, plumber, bier but brier.



Chatham, brougham, renown but known,
Knowledge, done, but gone and tone,
one, anemone, Balmoral,
Kitchen, lichen, laundry, laurel;
Gertrude, German, wind and mind;
We say hallowed but allowed,
People, leopard; towed but vowed,
Mark the difference moreover,
Between mover, plover, Dover;
Though the difference seems little,
We actual but victual,
Compare alien with Italian
Dandelion and battalion,
Don't you think so, reader, rather,
Saying rather, bather, father,
Finally, which rhymes with "enough",
Though, through, plough, cough, hough or tough?
Hiccough has the sound of "cup"
My advice is give it up.

AUTHOR UNKNOWN

THE NEW AUTO TELEPHONE SYSTEM FOR A.R.L.

We shall soon be dialling our own extension numbers on the new Post Office Automatic Telephone system for Upper Lodge and Queens Road. How we shall miss the help given by our Telephonists and the ease with which they got "Mr. So and So" without us having to bother about numbers.

The photograph shows part of the G.E.C. equipment being wired in. There is a satellite exchange at Upper Lodge, and a Private Automatic Branch Exchange at Queens Road where in addition to the auto switching gear, there are two Telephonists positions for handling calls coming into, and going out from, the joint Establishment.

This mechanisation will make two Telephonist posts redundant, but fortunately no staffing problems are involved. In fact the opposite situation has arisen and we are grateful to our relief Telephonists - Mrs. Borrill, Mrs. Mabbs and Mrs. Prince - for "manning" the switchboards until the change-over takes place.

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RETIREMENT OF BERNARD FILSELL, ALFRED SHAMBROOK AND
BILL QUICK



During their time at A.R.L. they have been willing and helpful workers and we have learned to respect and admire them. We wish them well, may health, success and prosperity always attend them and happiness in their new sphere of life be the reward of all their efforts.

Keep in touch with us, even if only now and then, and remember a welcome always awaits you should circumstances permit you to visit us. And now needs we must part, but kindly feelings and our fraternal tie will remain to bind us together still.

G.B.H.

