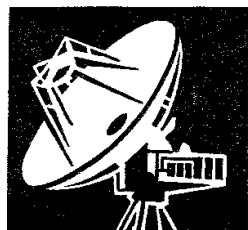


RESEARCH LAB REPORTER



PRODUCED BY RESEARCH LABORATORIES, 59 LITTLE COLLINS STREET, MELBOURNE

"RESEARCH LAB REPORTER"

"THERE IS MOVEMENT IN YOUR HEAD STATION"

With the likelihood that our "new" building at 117 Lonsdale Street will be occupied by the end of this year, the Laboratories will then be fragmented into eight buildings. This scattering of staff and activities has existed for some years and is presenting growing problems. It does not help in management or administration, and it reduces the amount of technical and social discourse which is desirable in our daily work.

However, efforts of the last several years to halt the fragmentation of the Laboratories with a positive move towards consolidation are now coming to fruition. The task of consolidating the Laboratories in new buildings is a large one and will cost upwards of \$20 million. It will also take time to plan, design and construct the necessary buildings.

As at now, we have two new sites in our grasp. We have been allocated a 2.75 acre site in Miles Street, South Melbourne, at the rear of Victoria Barracks. It is presently occupied by the Commonwealth Clothing Factory of the Department of Supply, whose new factory at Coburg is almost complete. They will vacate the South Melbourne site in mid-1971, and then the site can be cleared in preparation for the construction of our new buildings. The construction work will hopefully commence in 1973, and be completed towards the end of 1975.

We have also a site of 17.5 acres on the eastern perimeter of Monash University. It is located on the eastern side of Blackburn Road about 500 yards north of Wellington Road - next door to the Drive-In Theatre. It is planned to develop this site concurrently with the South Melbourne site, to achieve complete consolidation of all A.P.O. Laboratories activities on the two sites by the end of the 1970's, with sufficient space for further development to meet requirements to about the end of the century.

Broadly, the South Melbourne site will house those activities which can be categorised as development or applied research, and the Monash site the more academically oriented research activities. It is hoped that the new laboratory buildings to be built at South Melbourne will be ready for occupancy by about the end of 1975 and those at Monash by about the end of 1976.

Naturally, the plans for consolidation with a re-division into two major groups on two separate sites will involve some re-arrangements of activities to meet organisational changes or practical siting requirements. At this stage, it is not possible to state precisely which Divisions will go where, but it can be said that most of the present Systems and Apparatus and Services Sections will eventually go to South Melbourne and that most of the present Advanced Techniques Section will go to Monash.

As many of you are aware from your contributions to date, work is well in hand to determine and specify our requirements for the early stages of building development at the two sites. The approach to this work is unusual in that we have the Works Programming and Buildings Sub-Section of the Engineering Works Division and the Department of Works joining forces with us to tackle the project as a joint venture from the outset. This joint approach has and will enable us, the client, to obtain the early advice of Works Programming and Buildings, our banker-solicitor and building-consultant, and of the Department of Works, our architect and construction manager, to sort out problems as they arise.

Already, our "Client's Requirements Brief" for the first stage of building development at South Melbourne has been prepared and passed on to Works Programming and Buildings. The architectural design groups of the Department of Works will prepare from this a feasibility study to ascertain the ultimate capacity of the site, and to assess whether all of our stated requirements for the first stage at South Melbourne can be met in the light of practical construction aspects, funds availability, and overall site development plans. They will also then prepare schematic building designs for the site development. This work should be ready for review by about the end of September, 1970. A copy of the "Client's Requirements Brief" is on display in the Reading Room of the Engineering Library, Block A.

3.

I hope that this newsletter will serve to put you in the picture (and to squash any misleading rumours). I also wish it to serve to thank those who have made contributions to the project to date, and to ask that you continue to co-operate in the further more detailed preparation and specification of our requirements which will follow. Should you have any suggestions to offer for consideration in this task of testing our requirements for our future buildings, would you please jot them down on paper and forward them to Frank Arter at Block A.



P. R. Brett

Visit by His Excellency, The Governor of Victoria

Once again the members of the Labs showed the results of a great team effort during the preparations for the visit of His Excellency, Sir Rohan Delacombe on Thursday, 6th August.

Sir Rohan was welcomed and accompanied on his visit by Mr. L. M. Harris, First Assistant Director-General, Planning and Research and Mr. Brett.

The activities on display in Blocks C and T included the Integrated Switching and Transmission Project, communications via satellite to remote areas, the echo canceller, T.V.-phone, telephone instrument developments and examples of work in the physical sciences area. It was evident that Sir Rohan found the tour to be extremely interesting.

Thanks to all who helped

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Overseas

Assignment

Graeme Kidd departed early July and he will be attached to the British Post Office Research Laboratories for a considerable period.

The application of transmission waveguide technology to the provision of long distance telecommunication links is an extremely complex problem in an area which we have no practical experience, although we have been maintaining a close watch on published reports of overseas studies.

On his return, Graeme will lead the A.P.O. studies to determine the technical, operational and economic conditions pertaining to the application of this new technology to the Australian environment, including the variations and adaptations which may be necessary to meet the peculiar needs of the Australian network.

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The A.B.C. of motoring. As a member of the editorial staff of this magazine found out, you can't start an automatic when you have left the selector in reverse. After a 40 minute wait in the cold late one night, he eventually spotted his error. The R.A.C.V. mechanic still thinks it was a flat battery.

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GRAPEVINE GOSSIP

Gay infectious music and happy chatter from so many people cheered us when we arrived at Aylesbury Court, Brighton on Friday, 3rd July for the annual Supper Ball of the Laboratories.

Full length ball gowns seemed more popular than ever, although there was a sprinkling of pants suits, a few short but extremely pretty dance frocks, and one most delightful "see through" ensemble.

The guests included Mr. L. M. Harris, acting Deputy Director-General and Mrs. Harris and Mr. A. A. Gravell, acting S.A.D.G. Planning and Mrs. Gravell.

Supper time was merry. There were plenty of lucky numbers distributed and dozens of prizes to be had. The band played an excellent selection of popular numbers and no one let the music go to waste.

The committee has already booked the same venue for the 1971 Ball to be held on 18th June.

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Bigger homes must be the 'in' thing at the moment. After only about 12 months in his new home Tony Stevens, Lab. Equipment, is searching for something bigger. Also Ted Scates has just taken up residence in his new country mansion in Werribee.

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Congratulations to Neil Wain, Propagation Research who passed the one remaining subject for his Diploma of Radio Engineering.

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There's no accounting for the tastes of some people! Take Peter McMullen, Model Shop for an instance. For his lunch recently he purchased an APRICOT pie with TOMATO sauce.

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A big cheerio to Svend Dossing who is taking a well earned rest after undergoing a minor operation in July.

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".... and if you can all join me this afternoon at the Southern Cross" concluded Mel Ward at the presentation given him at Block "C" recently. It is with mixed feelings that the Switching Group see him take up a position of Engineer Class 3 at Telephone Exchange Equipment Section at Parkade. His new position will require him to be stationed in Antwerp for some 18 months and he intends to take advantage of the duty free buying on his way over to Belgium. At the presentation, Mel accepted a cheque from Harry Wragge on behalf of all his friends at Research and he hopes to put this money towards purchasing a movie camera.

All at Research wish Mel all the very best in his new position and safe journey overseas.

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Also farewelled last month was Doug Wilson, General Services Division. I'm sure it would be fair to say that Doug possesses that certain type of personality that endears him to all with whom he comes in contact. Before a large gathering of friends in Block A Doug was presented with a transistor from Frank Arter before leaving to take up duty in the Mechanical and Electrical Services Sub-Section.

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That essence of sartorial splendour - Barry Cranston, Lab. Equipment, took delivery of a mustard yellow Fiat 850 early this month. His mates have told him it will be an ideal bird catcher.

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Following the reinstatement of the roadway at the rear of Block C early this year, the "NO STANDING ANYTIME" sign mysteriously disappeared, thus providing free parking for many of the locals. However, one morning recently a parking attendant was sighted furiously writing oodles of pink tickets - some thoughtless person had very quietly replaced the sign. The word was quickly passed around, and bodies emerged from all points in an endeavour to move their vehicles and I can assure you there was a great HULLEYbaloo with every Ted, Dick and Robert running hither and thither.

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Colin Barling, Lab. Equipment continually changes his mind when contemplating an overseas trip. However, it looks as though it is 'on' again. Col has just forked out about \$150 for part of his trousseau.

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A box of camellias - pink, white and red
"For Gwen" - the notelet said

How lovely that stenographers are appreciated!

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Brian "Hoss" Lafferty and Fred "Tiger" Kelly, Admin. Services formed a successful duet for trapping a rat near Fred's cabinet early last Friday. Reminiscent of one of the three Mouseketeers, Brian pinned the rat in a corner with the tip of his broolly and then Fred stepped in and battered away with his broom.

Both these brave chaps have been decorated with the NOSFER award. (Nocking Off Speedily a Ferocious Energetic Rodent)

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Sports

&

Hobbes

FOOTBALL

Sunday, 21st June.

Research V Duplicating SectionSCORES

Duplicating	3-2	6-3	8-5	9-7	- 61 pts
Research	0-1	1-5	3-6	5-10	- 40 pts

Duplicating Section, with the thoughts of last year's crushing defeat uppermost in their minds, seemed most determined from the first bounce that this time the results would be reversed.

Taking full advantage of a strong following wind, they held a commanding lead of almost five goals when the oranges were served. After a very quiet but determined address by coach, Kevin Bartlett, our team was stirred into instant action. Two goals were scored in the first 30 seconds of play; one by Ralph Simpson with a magnificent 60 yard punt from centre half forward; the other, after a dazzling 40 yard weaving run from Peter Quinn. Duplicating, however, very cunningly packed the backline and with the heavy ground this proved too much despite our gallant last quarter effort.

The scoring shots were 16-15 and there is still some doubt about the accuracy at one particular end of the ground - Goal Umpire, Charles Bates may be suspended indefinitely.

Among the best players were Frank Dalmau, Peter Quinn, Ralph Simpson, Bill Fitzgerald, Peter Dalliston and Frank Drew.

As the games are now 1-all the deciding match will take place at the Harry Trott Oval, Albert Park (immediately behind the Basketball Stadium) at 2.15 p.m. on Sunday, 16th August.

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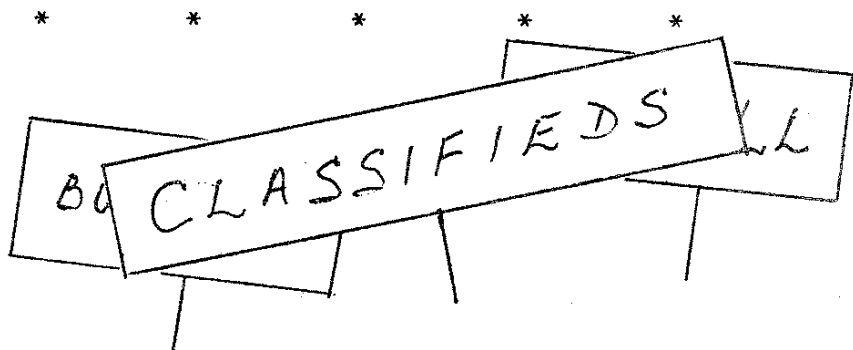
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ROTARY CLUB

Colin Block, 4th Year T.I.T., had the honour of addressing members of the Coburg Rotary Club last month to tell them about the week he spent as the club's representative at a youth leadership course conducted at Ormond College in June. He described the program of the course and the benefits he had derived from his attendance. The course covered many aspects of youth including public speaking, behaviour in the community, problems and leadership qualities. More controversial topics such as drugs and alcohol were also discussed.

Colin was chosen to attend because of his youth leadership work in the community. In his spare time he teaches Sunday School at St. Andrew's Presbyterian Church, Coburg. He is also a keen Rotoract member.

WANTED TO SELL

* * * STAR BARGAIN * * *

English Electric Slimline 30, Refrigerator, 3½ cu.ft. -
Bench height - BRAND NEW - an unwanted prize. Retail \$120.00
Sell for \$80.00

Ashley Conroy 7904

* * * * *

One pair glass lounge-room doors, suitable for Holiday
Home - Best Offer.

Ashley Conroy 7904

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MARRIAGES

Main Library Jill McDonald to John Liddell -
18.7.70.

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BIRTHS

Metallurgy To Lindsay and Lorraine Alford -
a daughter, Jody Racquel
(6lbs. 6ozs.) on 12.7.70.

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Welcome to :-

John Lowing	T.A. 1
Ron Micallef	T.T.O.
Peter Maloney	T.A. 1
Alison McLachlan	Junior Assistant
Cheryl Paterson	Junior Assistant
Le Vu	Engineer Class 1
Margaret Duck	Typist-in-Charge
Dan Lebby	C.A. 3

Farewell to :-

Robyn Hollindale	Librarian Cl. 2 - resigned
Brian Endersbee	Engineer Cl. 2 to Subs. Equipt.
Doug Wilson	T.O. 1 to Mech. & Elect. Serv.
Mel Ward	Engineer Cl.3 to Tel. Exch.
	Equipment

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COMING ATTRACTIONS

Sunday, 16th August, - Albert Park

Football Match - 2.15 p.m.

Research V Duplicating Section

Further Particulars - Peter Quinn 6613 W

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Sunday, 23rd August, - North East of Melbourne

Car Trial followed by BAR-B-Q

Entry Fee \$1.00 - Many Prizes

Further Particulars - Mario Verruso 7978 C

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Postwork *May* *22 Y*
 $2x^2 + 3y^2 = ?$ *Losers* *Log-939*

Ian Davidson, Electrical Standards, has kindly submitted the following problems for this issue.

1. (limit 30 seconds)

There are one hundred inmates of a prison. A certain number are one-legged. Half of the remainder are barefooted.

Q. How many shoes are normally worn?

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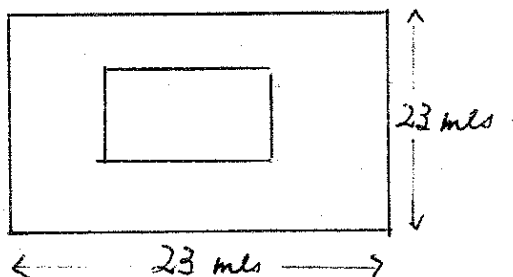
2. A number of cars were tested for brakes, lights and steering.

45 failed brakes
 40 failed lights
 20 failed lights and steering
 105 passed brakes
 80 passed brakes and lights
 30 failed brakes and steering
 80 passed steering
 10 failed everything

- Q. (a) How many cars were tested?
 (b) How many cars failed brakes and lights?

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3. A. has a rectangular property within a 23 mile square shire, whose sides are an integral number of miles.
B. knows the area, asks is $L < 2W$. On receiving the answer, he knows the length.
C. knows the area, hears the question but not the answer. As he knows B found the length, he too knows the length.
D. does not know the area, he hears the question and the answer, then he also knows the length.
- Q. What is the length?



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