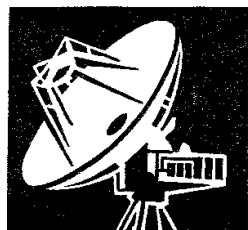


RESEARCH LAB REPORTER



PRODUCED BY RESEARCH LABORATORIES, 59 LITTLE COLLINS STREET, MELBOURNE

"RESEARCH LAB REPORTER"

Don't miss out this year!

Laboratories Supper Ball

"Stardust" Ballroom, St. Kilda

Thursday 24th July

Dancing 8.30 pm - 1.00 am - Dress Optional

More details later

After last year's most enjoyable evening the Social Committee immediately booked the ballroom for Friday 27th June. Unfortunately this booking was lost as the establishment was damaged by fire at Christmas and will not re-open until July. Table Bookings will open soon and will be limited to approximately 250 so be sure and be early.

Visit by The Director General

Mr. J.L. Knott, CBE, visited the Laboratories on the mornings of the 5th and 6th March for the purpose of having discussions on Research Policy with the S.A.D.G., A.D'sG. and Administrative Officer and to view selected activities displayed in the various Laboratories buildings. HE was accompanied by Mr. L.M. Harris, F.A.D.G. Planning and Research.

The activities on display included electronic switching and signalling projects, telephone instrument developments, pulse burst testing of coaxial cables, a photographic display of field investigations on microwave radio propagation, time and frequency standard equipment, the satellite system for outback subscribers and examples of the work of the Metallurgy, Chemistry and Physics Divisions.

It was evident that the Director General found the visit to be extremely interesting and congratulations are warranted to all once again for the usual team effort that is always forthcoming when needed.

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Safe Motoring

During the Easter holiday period, the great exodus of holiday-makers will once again be leaving their homes to travel to interstate and intrastate destinations, some of them never to return. These holidays are always marred by a heavy road death toll and one of the contributing factors towards the cause of accidents is the tired driver who has been driving continuously over a long distance, his senses dulled and his reflexes slow.

There are several simple remedies to combat driving fatigue, and although they may appear to be elementary, they are well worth remembering.

1. Take a break from driving at regular intervals. Pull up at a safe place at the side of the road, get out of the car and walk around. Stretch your legs and take several deep breaths of air. This will replenish any oxygen deficiency and avoid cramps.
2. Have a cup of tea or a non-alcoholic drink of some description.
3. Sit erect when driving, this combats premature driving fatigue; and keep both hands on the wheel, you then have better control of your car if faced with any emergency.
4. Wear suitable sunglasses to avoid eye fatigue and rest the eyes by keeping them in motion. Vary your focus to avoid a fixed stare on any single object.

REMEMBER Its better to be a little late than to arrive dead on time.

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Visit by Professor Karbowski, University of N.S.W.

Professor Karbowski was invited to the Laboratories on the 20th and 21st March to discuss both the "Ample-Cable" project on which he proposes to commence work in the near future and also problems of wave-guide transmission.

The "Ample-Cable" project arose from an idea conceived by the Professor to have amplifiers built into the cable structure during manufacture of the cable. If successful, this technique would remove the present need to space conventional repeater equipment along the cable route. Problems of laying a cable could be considerably simplified and costs reduced.

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Personal Glimpses

James Kelsey Richardson, Advanced Techniques

Jim Richardson, was born in Melbourne and received his tertiary education at Melbourne University where he gained degrees in physics (B. Sc. 1960) electrical engineering (B.E. 1962) and modern government (B.A. 1966). He is a Member of the I.E.E. (U.K.), the I.E.E.E. (U.S.A.) and an Honorary Member of the Tea Club, 2nd Floor, Block A.

Jim joined the Laboratories in 1962 and has specialised in microwave research and development. His work has included the design of a swept frequency oscillator utilising a backward wave tube, the development of 4 GHz mixer pre amplifier units for the East-West route and investigations into the designability of passive strip line components, specialising in band pass filters and directional couplers in symmetric strip line form.

Although he has a sound technical background, according to his close colleagues his mechanical know-how leaves a lot to be desired. Apparently he is not the best motorist and has received the "Prang of the Month" award on innumerable occasions.

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Do You Know ??

Japanese Government Science Fellowship

Congratulations to BILL Williamson, Solid State and Quantum Electronics, who has been awarded a science Fellowship by the Government of Japan. Bill departed late last month accompanied by his wife Megan and children Helen and John.

Each year the Japanese Government offers Fellowships to specialists in the fields of natural and applied science and technology who have been in scientific and technical research for more than three years. The Fellowships are available to one nominee from each of the following countries - Australia, U.K., U.S.A., France, Germany and the Netherlands. Fellows are required to live in Japan during the period of the award and to perform work in a government research institute. The Fellowship covers a period of seven to ten months. Many of you will recall that Gavan Rosman, Pulse Techniques, was our successful nominee for this award in 1963.

Bill will undertake research into the application of Gunn effect devices as microwave sources at the Electro-technical Laboratories of the Japanese Ministry of International Trade and Industry, which is one of the leading world centres of work in solid state electronics. He will also have opportunities to investigate relevant work being carried by other Japanese research groups including the Electrical Communications Laboratory at Nippon Telegraph and Telephone Public Corporation.

Sayonara Bill-san - see you about Christmas.

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SYMPOSIUM

Since the days of palaver and pow wow, men gathering together to talk have progressed to today's fashion, the symposium.

It used to be the meeting, then it was the conference. After this came the convention, followed by the forum, then the seminar; and now every group proposing to parley hold a symposium.

The word goes back 2400 years to Socrates and his friends, gathered at The Symposium, as reported by Plato. And because today's symposiums (symposia not compulsory) are often at universities the word has an academic ring about it.

Symposium still means a drinking party. SYN, together, and posis, a drinking of potable potions. Should we revert to the old range of words like convention (coming together) or conference (bringing together) unless, of course, what we really have in mind is a drinking together?



The Functions Room at Russell Exchange was the meeting place on 28th February when many friends of Rudolph Buring came from all areas of the Laboratories to bid him adieu on the occasion of his transfer to the Lines Section. After partaking of a delectable buffet luncheon prepared by the Food Services Section, Rollo Brett acquainted us with some of the more famous of Rudolph's accomplishments during his stay of 27 years in the Labs. Mention was made of his method of acquiring office machines, in particular the digital computer which was installed in 1963.

Being a lover of the outdoors life - caravans, picnics (and ants) etc, it was appropriate that Rudolph was presented with a set of food and drink thermos flasks by Mr. L.M. Harris who had been a close colleague of his for many years.

Rudolph's usual wit was heard at its best during his reply and we can expect to see much of him in the future, no doubt, as the originator of experimental cases for the already harrassed members of his old domain.

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Parties can create headaches in more ways than one especially when someone puts Chablis instead of Chopin on Daddy Schofield's prize stereo (in his absence). However Joannes' worries are over thanks to the technical expertise of Noel Wolstencroft. Regretfully we say farewell to Joanne who leaves us to further her career in outside industry.

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Farewells also to Jim Blake, Lab Equipment, who has taken up duty as an Engineer Class 1, Victorian Administration and Bill Craig, Switching Group, promoted to Engineer Class 2, Telephone Exchange Equipment.

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Alan Bidwell, Lab Equipment is the latest to be bitten by the travel bug. He's acquired a land rover for his proposed six month safari round the Commonwealth and is now busily collecting drums, bottles, lights, etc for his departure in May.

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We're puzzled by the usual morning greeting around Block C these days - "Top of the morning, Squire" Anybody know who started this ??

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Great commotion in the Training Annexe on the morning of 20th March. It appears that young would-be car thief, caught in the act by owner, sought refuge in our establishment. After Constable Joseph Blake apprehended the culprit in the 'gents' a quick phone call resulted in the body being handed over to the Gendarmes. Never a dull moment in the training area.

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Heather Bentley Lab Equipment is busily preparing her box for her marriage later this year. Lunch breaks are taken up in receiving deliveries of saucepans, crockery, cutlery etc, much to the amusement of her workmates who announce that Heather hasn't the faintest notion of how to cook. Perhaps the next delivery should include a book on the advantages of culinary art.

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A sincere welcome is extended to Kay O'Keeffe on her return from Noumea. Many of you will recall Kay, (who originally hails from Queensland) when she spent about three years in the main library, Block A, until early 1967 when she joined the Australian Volunteers Abroad. She has now taken up duty as Library Officer in the Transmission Library, Parkade.

And to Norm Smith, affectionately known as "Whizzer" who has joined the Labs as Engineer Class 4, Special Projects. Norm has recently completed a postgraduate course at the National University and is awaiting the conferring of his Ph.D.

Also returned to the fold is Laury Melton, the Principal Processor of Patents, who has spent several months of lectures in Canberra.

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NEW GRANDFATHERS - where art thou? Thanks to the efforts of Ray Jepson, Lab Equipment, we now have a staff of office fit for a king and suitably inscribed. As Ray is the present holder you can view this trophy appropriately mounted in his office.

Future applicants are requested to contact Ashley Conroy 7904 who will arrange the "handing over" ceremony.

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Andy Domjan, Semiconductor Circuitry is naturally upset at having his new car rammed in the rear by a thoughtless motorist. However he is fortunate in obtaining free expert (?) legal advice from the Horror of the Highways, Norm "Perry Mason" McLeod.

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Is there any truth in the rumor that a certain barefoot refugee from the Sunshine State (now with Path Evaluation) had a Renault which was too long for his garage? He left it parked in the street recently and woke next day to find it three feet shorter. It was so spectacular that he is now thinking of shortening his sister's Volkswagen the same way - this time he'll watch to see how it's done.

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Big panic by Barry "Magoo" Thomas, Path Evaluation, when he discovered one of his prize samurai swords was missing. Fearing the worst he advertised in the daily papers and sent photographs of the sword to antique dealers. However all the expense was for nought. Finally recalled giving it to Jenny Jans for safe-keeping and there it was secreted safely in the bottom of Jenny's wardrobe.

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Whats the matter with Murfett's band of Merry Men? Surely there must be other than equipment development in that area. Couldn't someone spare a Minnitt to let the rest of us know what's happening !!

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Reluctantly we say farewell to Sue Lafferty this month who has decided to transfer to home duties. All the best Sue - make sure "Beefy" puts enough aside to provide us with cigars in June !

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'P' plates are becoming the fashion in the stenographic field. Gwen Bulter, Cheneys has now acquired a Morris Major Elite (complete with scrapes and dents). Less fortunate is Lorraine Peoples, Systems Section who has only the tea trolley on which to hang her recently acquired shingle since father won't make the family car available. Marj McDonald, however, has a Toyota Corona, sitting in the driveway, hotted up and rarin' to go - just awaiting the final decision of the gendarmes which is expected in the very near future. Unfortunately our sleuths are unable to solve the mystery surrounding Lucy Varrasso, Advanced Techniques. Lucy claims she is considering taking driving lessons but we are very curious about that large delivery truck (with L. Varrasso on the doors) seen recently replenishing the cellars of several of the "locals" early in the mornings - Courage Lucy !

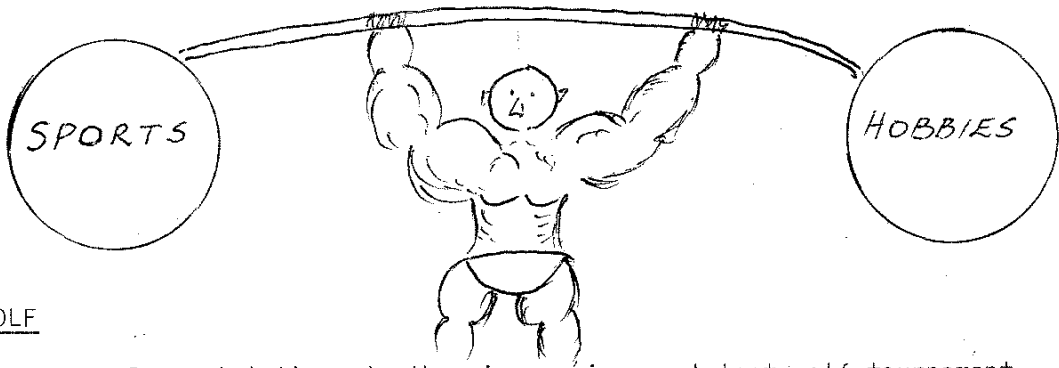
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Welcome back to Greg Walsh who commenced recently as an instrument maker. Block W. Greg was previously with the Postal Workshops South Melbourne prior to a period in the Army. He spent part of his apprenticeship with us so he's no stranger to the Labs.

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Eddie Fall, Path Evaluation and wife Jenny have returned recently from a 3 weeks overseas holiday. Visited Rio de Janero, Athens, spent a week end in London shopping in Bond Street, a short stay in Bangkok then back home. After cramming so much into such a short period it must be a relief to come back to work for a rest, Ed.

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GOLF

Congratulations to the winners in our latest golf tournament -

Group A - Clem Harrison

Group B - Norm Anderson

Group C - Doug Wilson

What a day it was ! It rained continuously throughout the contest and the conditions certainly separated the men from the boys (and the girls). Of the 48 original entrants about 33 arrived at the links but only 21 finished the course - satisfied and saturated.

Was it the weather or those four putts on a par 3 hole that sent Bert Bladier home with an unfinished round? Frank Arter kept his partners on their toes as he had considerable difficulty in maintaining a firm grip on his clubs. While many were beating the undergrowth searching for golf balls Frank spent many hair-raising moments scaling trees to retrieve his clubs. Doug "Windmill" Wilson's effort in taking five strokes to get off the first tee has caused some doubts as to the accuracy of his final score in taking off the Group C title - we hope you counted those "fresh air" strokes Doug.

The best dressed award for the day went to Eric Koop suitably attired in an exquisite ensemble of plastic with matching Sou' wester.

In conclusion did you hear about the golfing parson who returned to the clubhouse very depressed after being badly beaten by an elderly parishioner?

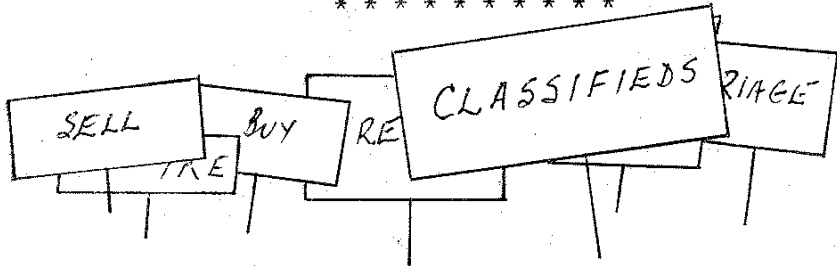
"Cheer up", said his opponent. "Remember, you win eventually. You'll be burying me someday."

"Yes", said the parson. "But even then it will be your hole."

HAM RADIO

Ray Jepson Lab Equipment has joined with Dick Fitzsimons in the amateur radio field using duck talk (S.S.B.). After 30 years of CW operating Ray has decided to try earbashing by speech instead of dots and dashes. Arrangements are well under way for the construction of a 60 ft. rotatable antenna in the Jepson back yard which has caused neighbours to check the small print on their insurance policies.

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WANTED TO SELL

HILLMAN MINX, 1956, proven ability to exceed speed limit (amphometer tested). Just returned from trouble free jaunt to Canberra and back. Bodywork in good condition and four good tyres on the road.

An Easter Special at \$150.

Laury Melton 6295

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FOR HIRE

Dance Band, 3 - 4 (or more) piece group, fully experienced in cabarets, parties, receptions, etc.

Graeme Pearce 6611

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MARRIAGES

Advanced Techniques Michael Ingram to Elizabeth Wells - 15/2/69

Apparatus and Services Alan Collins to Diane Purvis - 12/4/69

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BIRTHS

Laboratory Equipment to Bruce and Lynne McEwan a son, Ashley
Paul (8lbs 2ozs.) - 23/3/69

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PROMOTIONS

Congratulations to -

Peter Glavimans	-	Wiring Group
Bill Matthews	-	Training Annexe
Colin Barling	-	Lab. Equipment
Mick Hunter	-	Pulse Systems
Bill Fitzpatrick	-	Material Physics
Bill Williamson	-	Solid State & Quantum Electronics
Judith Quilter	-	Library

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ENGAGEMENTS

Advanced Techniques Jenny Jans to Barry Thomas.

(Another double for the Labs - seems to be coming a habit)

$\pi^2 \times \infty$
2. $\sqrt{49}$

Log. 939
POSTWORK
?

a.b. 149
32
68
POSERS
?

Q9. 259
 $2\pi^2 \sqrt{Bxy}$?

1.

THE DISHONEST TAX COLLECTOR

The ruler of an eastern country collected tribute from the twelve provinces into which his country was divided. The tribute took the form of gold discs, each weighing exactly 1-lb. (avoir). One of the tax collectors, after completing his round, carefully removed a section from each of the discs, gouged out one ounce of gold, and then replaced the section so skilfully that his interference with the discs could not be detected.

The ruler knew that one of the collectors was dishonest but the only means of detecting the discrepancy was by weighing the coins. He had at his disposal a jockey scale (weighing in ounces) but its mechanism was operated by a cent in the slot, and only one cent was available.

How could the ruler detect in only one weighing, which of the twelve sacks contained the defaced coins.

(Lew Green 630 7608)
Transmission Media.

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2. In walking down the escalator at Central Railway Station, Smith makes fifty (50) steps.

Jones walks three times as fast as Smith, and makes seventy-five (75) steps.

If the escalator were stopped how many steps would be visible.

(Ashley Conroy 7904)
Information Group

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3. Find the missing digits in the following :-

$$\begin{array}{r}
 \text{XX } 8\text{XX} \\
 \text{XXX } \overline{) \text{XX,XXX,XXX}} \\
 \underline{\text{X XX}} \\
 \text{XXX X} \\
 \underline{\text{XX X}} \\
 \text{X XXX} \\
 \underline{\text{X XXX}} \\
 \text{. . .}
 \end{array}$$

Ian Davidson 630 7657
Pulse Systems.

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A gentle Quaker, hearing a strange noise in his house one night, got up and discovered a burglar busily at work. So he went and got his gun, then came back and stood quietly in the doorway.

"Friend," he said, "I would do thee no harm in the world, but thee standest where I am about to shoot."

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