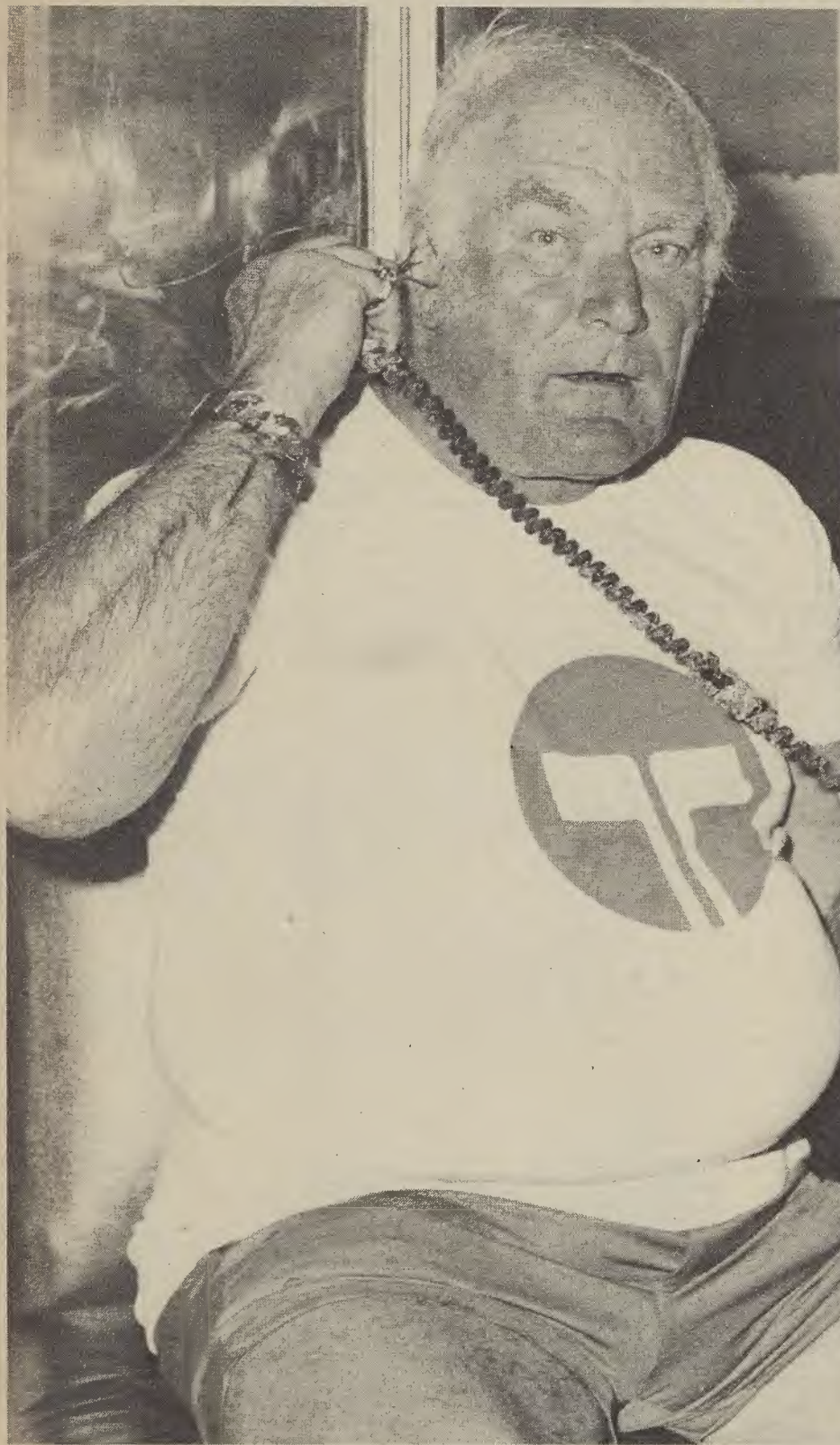


'CAP'N BAINES 'ERE, ME 'EARTIES'



Telecom

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"Ahoy me hearties" — "Land Ho" — "Ship Ahoy" — "Keel haul the swab"... They are the sorts of cries you might have expected to hear from Telecom Perth's Public Relations Office when Howard Lang met Tom Alford.

Tom Alford is the Public Relations Manager in Perth

and is something of a "weekend sailor", taking to the waters of the Swan River whenever possible in an 8-metre Space Sailor as a crew member.

Howard Lang is a British actor perhaps best known for his role as "Captain Baines" in the series "The Onedin Line", who was visiting Perth.

The two met at a function and Tom, seeing the value in a small public relations gesture, invited the Captain to his office to make an international call home to friends in London.

The invitation was somewhat opportune for the actor in that he was rather anxious to make sure that

he had remembered to turn the gas off to his heater at his London home!

Telecom photographer Ralph Morrow was there to capture the meeting of the sailors in the early hours of one evening and when Ralph expressed concern at the hour, Captain Baines came to the rescue.

He made a quick 'phone

call to Ralph's wife Wendy and with the words "'Ullo me Luv, 'tis Captain Baines 'ere", Onedin Line fan Wendy melted and soon forgot that Ralph was late home!

In the photo, the Captain holds a somewhat worse for wear barnacle encrusted phone recently dredged from Perth's Swan River.

Queensland mining boom means massive problems for Telecom

Mr Dubois said the State Government had forecast an additional 25,000 people being attracted to major projects planned for the Central Queensland area.

"If this expected development takes place we will have a busy time in the Rockhampton Telecom Communication District of Central Queensland," Mr Dubois said.

Much of the development was in the Bowen Basin, Mr Dubois added.

Projects included coal mining at Oak Creek, German Creek and Gregory, the proposed expansion of Blair Athol coalfield, development of the Curragh coalfield, copper mining at Mt Chalmers and a clinker plant at Fisherman's Landing.

SMELTER

Other projects confirmed or in the pipeline included the Comalco and Alcan aluminium smelter at Gladstone, expansion of the Gladstone power station and development of the Rundle Oil Shale project.

Now there was a proposal for a multi-million dollar coal port at Port Clinton to serve the Bowen Basin.

Mr Dubois said the Rockhampton District Telecommunications Branch kept a close

by Queensland Media Officer LOGAN SLIGO who has been touring country areas meeting Telecom customers and staff and learning of their problems.

Telephone services for coal mining and other mineral projects in Central Queensland are providing Telecom Australia with a major challenge which, says Telecom State Manager Paul Dubois, requires detailed advance planning, apart from the physical task of laying new cable and providing exchange facilities.

"Too often we seek information about the telephone needs of new projects and are left in the dark until the last minute", he said.

"Allowing for the need for some secrecy because of the competitive nature of the enterprises, we should be given the earliest possible advice of requirements for telephone and telex services. Some equipment has to be ordered overseas and often there is a three-year lead time."

watch on mineral projects in Central Queensland from the day they were publicly mooted.

The Planning and Programming Branch at Telecom headquarters in Brisbane kept monitoring the state so that Telecom could provide essential telecommunications.

Many services had already been provided, Mr Dubois said.

In the case of the Gregory mine connection of telephone services to Emerald automatic exchange had been arranged pending the opening of a small country automatic exchange at Tieri in 1980/81.

(Tieri is the town proposed for the Oak Creek mining operations and the exchange would meet the needs of both mines and rural subscribers.)

Mr Dubois said residential services in Emerald had increased significantly as a result

of the influx of mining people.

A remote control electronic exchange at Fusain had given a telephone service to the Oak Creek mine exploration area and construction sites at the mine and town sites.

Residential and public telephone service connections had increased at Capella as a result of mining operations.

OTHER PROJECTS

Other projects, listed by Rockhampton D.T.M. (Mr Bryce Plummer), included:

- A small country automatic exchange at Middlemount in September this year for an expected population of 5000-7000 in the German Creek project area.
- A telephone service from the Fusain remote control exchange was serving the area at present and a six-channel system was ex-

pected to be brought into operation soon.

- Two public telephones and exchange lines provided via the six-channel system would terminate on the manual switchboard at Rockhampton. A telex service would also be provided.
- To meet the needs of 1000 construction workers on the site of the Comalco aluminium smelter at Boyne Island, south of Gladstone, an 80-line switchboard capable of expansion to 500 lines had been provided.
- Construction firms were applying for individual telephone and telex facilities. Permanent conduit and cable work was nearing completion.
- Queensland Cement and Lime Company Ltd had commenced construction of an \$85m clinker project at Fisherman's Landing north of Gladstone. After clay was mined at East End and Bracewell it would be piped 25km to the clinker plant and shipped to Bulwer Island to be ground with gypsum to make cement.

- Construction work was employing about 300 men and a 4 + 10 switchboard, two public telephones, one private line and a telex had been provided at Fisherman's Landing while another 4 + 10 and two private lines were to be installed at Bracewell.
- One telex and five telephone lines were leased by the Iwasaki Company for the tourist project north of Yeppoon.

YEPPOON

A 100-pair cable from the Cooberrie exchange to the proposed lead-in point for the Yeppoon project was planned for 1980/81, but information was still being sought from the Iwasaki Company on its requirements.

Apart from expansion of Blair Athol and development of the Curragh coalfield, Telecom was keeping in touch with these developments:

- Baralaba — Crusader Oil N/L — re-open existing mine;
- Theodore — Thiess Holdings A/AAR N/L and I.O.L. Petroleum Ltd. New Field by 1985;
- Capella West mining lease — Blair Athol Coal Pty Ltd;
- Biloela — Thiess Bros Kilburney (north of Callide).

These and other developments in the area have caused an unusually high growth in the new service demand. New service connections have been increased to keep up with demand. Details are as follows:

NEW SERVICE FIGURES

	1977/78	1978/79	Est 1979/80	(Actual) (to March)
New Service Demand	2886	3697	4600	(3290)
New Service Connections	2955	3557	4400	(3214)

During 1980/81 it is anticipated that demand could reach 5400 and connections 5600.



Houses going up at Middlemount for the new mining development. Mine management, miners and associated workers have lifted the demand for telephone services in Central Queensland. Rockhampton Bulletin photo.

BLACK MOUNTAIN TELECOMMUNICATIONS TOWER

Prime Minister to open graceful Canberra landmark

Canberra's already world famous Black Mountain Telecommunications tower will be officially opened by the Prime Minister, Mr Malcolm Fraser in a dusk ceremony on May 15 (about the time this edition would be on the press).

The ceremony will climax when the Prime Minister activates a switch to brilliantly floodlight the tower — the only occasion it will be so illuminated and an exercise for which special permission of Air Traffic Control had to be obtained.

Black Mountain tower centralises in one elegant structure these essential communications facilities:

- Major Trunk line radio-telephony facilities;
- Television transmitters for national and commercial services;
- FM radio transmitters;

- Radio paging (Telefinder services) facilities; and

- Mobile radio telephone base station services to vehicles.

The tower complex, including public car parking, cover about 2 hectares on the summit of Black Mountain.

It rises 195.2 metres from ground level and consists of a self-supporting re-inforced concrete circular shaft carrying three levels of technical equipment for radio-telephone purposes and two enclosed and two open levels for public use.

The concrete shaft terminates at the 132.3 metres level and from this point the tower becomes an open lattice steel structure, supporting antennae for television and other services.

The podium from which the tower rises provides access and amenities for visitors at ground floor level.

Space for television and FM sound broadcasting, other engineering services and essential car parking is in the two levels below ground level.

The three floors of accommodation for radio communication facilities are placed between the 30.5 metres and 42.7 metres levels and provide space for radio relay antenna platforms, relay equipment, equipment for mobile services, battery plant, air conditioning plant and television bearer switching and broadcast station monitoring facilities.

RESTAURANT

The public floors which are placed between the 54 metres and 66.1 metres level consist of one floor containing a restaurant with a revolving platform, one floor containing a snack bar and an enclosed viewing gallery and two floors of open viewing.

These facilities which include a souvenir shop will be run by a concessionaire and entrance fees have been set at \$1 for adults, 20 cents for

children with small fry free.

For their money, visitors will get an exhilarating and unparalleled view of Canberra and surrounding country as the viewing platform is nearly 300 metres above the level of Lake Burley Griffin — access to extensive displays and viewing rooms which with a theatre are to be used for educational tours.

The VIP room on the ground floor will be dedicated by Mrs B. Sawkins, widow of the late Evan Sawkins OBE, former Deputy Director General of the Australian Post Office whose "vision and vigor is epitomised in the Telecom tower" as is recorded on a plaque in it.

To mark the opening, Telecom Australia is inviting all Canberra schoolchildren to have a free look at the tower in the first four weeks after the opening ceremony.

Additionally over this time there will be a free shuttle bus service on Saturday afternoon and Sundays. This will run between Canberra Civic carpark and the tower and is expected to help moderate the initially very heavy private car traffic.

Tower model 'masterpiece'



"A sculpture rather than a model" gently corrects sculptor and model maker Franz Hugen who was commissioned to make a 2½ metres high replica of Black Mountain Tower which will be installed as a focal point in the main entrance to the tower itself.

The centre core has been turned out of Huon pine and the remainder created from acrylic. The model will be constantly rotated in a four-sided glass pyramid nearly four metres tall. The photograph shows Franz Hugen making final touches — additional railing of viewing platforms and radio antennae on upper part of tower.

'Palace of winged words'

This year marks the centenary of the first Australian telephone exchanges, and Telecom plans to mark the occasions with special functions and displays.

When Melbourne's first exchange opened in August 1880, the

Australian Sketcher described it as "The Palace of Winged Words".

This will be the title of a special anniversary publication to be produced by the HQ Information and Publicity Section.

BeepA Buggy: PT box that sprouts wheels



You're at the Victorian Open or the Stawell Easter Gift and your car breaks down. You need to make several urgent phone calls — to the RACV to have your car fixed, perhaps to your family to let them know that you'll be home later than expected.

You look around for the comforting sight of a public telephone cabinet and there's not one to be seen. When you find it, there's a queue of twenty people trying to use it, probably for similar reasons.

You sigh in exasperation, but you know the reason why there aren't more public telephones to be found. It would cost Telecom a fortune to install more phones which would barely be used for the rest of the year when the Stawell Gift isn't on and when the Victorian Open finishes.

Suddenly your eyes alight on the answer to your prayers. It's a compact mobile unit containing four STD phones. Emblazoned on the side of the unit are the words "BeepA Buggy". You're now able to make your call without waiting for an endless queue to dissipate.

For many years now, it's been apparent that public telephones have been needed in holiday resorts or at any place where a special event, likely to attract a big crowd, is being held.

Installing permanent telephones would be far too expensive to contemplate as they would only receive use at the time the special event or the holiday season was taking place.

To overcome this problem, Telecom's Customer Services Department asked Customer Networks and Equipment to design a unit which would be suitable for transporting public telephones to places where they might be needed.

"BeepA Buggy" was first taken to the Portarlington caravan park in the Geelong Telecom District over the summer period. It was an unqualified success, collecting over \$2000 in the month that it was at the holiday resort.

Since February, "BeepA Buggy" has been used at the World Bowls Competition at Frankston, the Victorian Open, the Ringwood "Good Fun Day", the Wimmera Machinery Field Days, the Stawell Easter Gift and the Forest Industry Machinery Exposition at Myrtleford.

Judging by the public response to "BeepA Buggy", the concept of a mobile public telephone unit was long overdue. The cost of making the Buggy was around \$6000 and the four STD phones cost around \$6000 as well.

For a total cost of around \$12,000 "BeepA Buggy" seems to be not only fulfilling a very important community need but also shows signs of being a very good business proposition.

Telecom Australia is spending an estimated \$80,000,000 to improve Australia's coin telephone service so that by the end of the conversion programme — June 1983 — all wooden public telephone cabinets will have been replaced by modern aluminium and glass cabinets and multi-coin CT3 telephones.

42,000 phones upgrade in \$80M. PT programme

The programme began in June 1976 and when completed about 42,000 coin telephones will have been replaced by the new green STD public telephones.

A feature will be signalling equipment which is being installed in telephone exchanges to indicate when public telephones are out of order and to quickly alert field maintenance staff.

In Australia, public telephones represent less than 1% of all telephone services — but they generate almost 20% of all problems encountered by customers.

The new STD coin telephones are considerably more robust and reliable resulting in a significant reduction in maintenance costs while providing a more efficient, dependable public telephone service.

As public telephones and cabinets are replaced, careful consideration is being given to re-locating the services where necessary.

Public telephones are being removed from particularly dangerous or very noisy locations and resited where they are more accessible to the users.

NSC post

Queensland State Manager (Paul Dubois) has accepted an invitation to join the State Council of the Queensland Division of the National Safety Council of Australia.

Telecom is a subscriber member of the NSCA and uses the council's library services, training courses, field services, magazines and posters.

Mr Dubois said he looked forward to contributing to the promotion of industrial accident control in Queensland.

Old style leased coin telephones are also included in the programme and the lessees will be given the choice of a Red Phone for local calls only or a green phone for local and STD calls.

The Coin Telephone Replacement Programme is proceeding on

schedule and at the moment there are still about 23,000 services to be converted with the State breakdown as follows:

NSW	10,000
VIC	5,000
QLD	3,000
SA	2,500
WA	2,000
TAS	800

NEW PABX WONDERS

The first of a new series of computerised PABXs has recently been installed in Australia at the offices of a loan broking house in Sydney. The tiny exchange which measures only 670mm x 650mm x 180mm can service up to 2000 and more extensions. It features:

- automatic call-back, which enables "parking" at an engaged number until it becomes free, so that the caller does not have to redial continually to reach the subscriber;
- follow-me, which enables calls to be re-routed to another office the subscriber plans to visit at a given time; this feature is also described as a "Do-not-Disturb" because the subscriber can re-route calls in advance to another person such as his secretary, acting on his behalf;
- enquiry and transfer;
- priority intrusion;
- voluntary extension night service.

The PABX is supplied by STC.

Silver pen for Penny



Doctor Ann Long, survey director of Sydney's Blood Pressure Survey Group (left), presents Telecom's Penny Kessey with a silver pen as the 4,000th survey volunteer. Professor David Ferguson, head of the Department of Occupational and Environmental Health at Sydney University, looks on.

M-D MEETS CUSTOMERS, STAFF IN 3 LARGE NSW CENTRES

A recent visit to three NSW provincial centres — Wagga Wagga, Tamworth and Armidale — by the Managing Director, Mr Jack Curtis, and the NSW State Manager, Dr Ron Cullen, gained considerable media publicity for Telecom's efforts to improve its services in the rural areas.

In addition to discussions with both office and technical staff, Mr Curtis and Dr Cullen had discussions with Telecom's major business customers in the three districts.

\$12.3M IMPROVEMENTS FOR TAMWORTH

Mr Curtis said Telecom's present investment programme calls for a steady reduction in the 4,900 customers currently connected to manual exchanges in the Tamworth district. This is part of Telecom's accelerated rural programme which will provide a boost generally to development throughout inland Australia.

In the Tamworth district, which stretches from Tamworth and Quirindi west to Walgett and Lightning Ridge, automation has been provided to 79.6% of the 24,000 customers and it is anticipated that by 1986, 98% will be connected to automatic exchanges.

Telecom's programme calls for the spending of \$12.3 million during this financial year on the improvement and extension of telephone services in the Tamworth district.

WAGES BILL

The wages bill for its 413 employees in the district is \$5.2 million a year.

Current major projects include the conversion of Manilla and Werris Creek manual exchanges to automatic at a cost of \$450,000 and \$180,000 respectively, and a 600 line extension to Tamworth exchange at a cost of \$114,300.

Five other projects at present in progress within the district will be completed at a cost of \$150,000.

Werris Creek and Manilla exchanges have recently been cut over to automatic working and another three, Duri, Turrawan, and Walgett will be cut over next year. Between now and 1986, 33 manual exchanges,

serving 4726 customers will be automated, increasing the percentage of services connected to automatic exchanges from 79.6% to 98%.

During this period the number of customers maintaining their own lines will be reduced from 1500 to 300. The remainder will be automated and

provided with Commission lines before 1990.

Telecom is connecting over 2,000 new telephone services each year in the Tamworth district. Growth this year in new telephone connections is 5 per cent higher than last year.

Telecom's activities in Tamworth are managed by Mr Dick Monks, District Telecommunications Manager who runs a large operation by any standards.

... \$11.2M IN ARMIDALE

Telecom's programme calls for the spending of \$11.2 million over the next year on the maintenance, improvement, and expansion of telephone services in the Armidale District.

Included in this amount is \$4.99 million which Telecom will pay in wages to its 425 employees in the district, of which 150 are employed in the immediate Armidale area with a wages bill of \$2.05 million.

It is planned to replace at least nine manual exchanges in 1980/81 with modern, automatic exchanges.

The number of telephone subscribers in the Armidale District who are expected to benefit from the changeover of exchanges to automatic working during the next two years is 3575. These subscribers will then have access to Subscriber Trunk Dialling (STD) facilities.

One of the manual exchanges

to be replaced is Glen Innes Exchange which has over 1700 subscribers and is the largest manual exchange still operating in Australia. It is due to be changed over next year at a cost of \$2 million.

Other exchanges which will be converted to automatic in the coming year include Deepwater at a cost of \$131,000, Tingha (\$164,000) Bingara (\$230,000) and Wellington (\$262,000).

A major project which will be completed within the next few months is the extension of the Armidale automatic exchange by 1000 lines, and area rearrangement at a cost of \$300,000.

This will provide capacity for future growth.

Work is progressing toward the completion of the Gilgai exchange which is being converted to automatic at a cost of \$40,000.

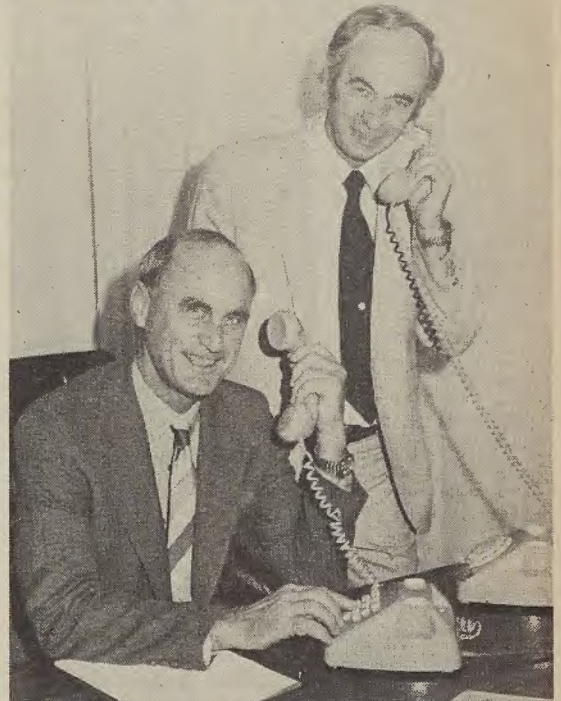
AND \$15M AT WAGGA

Telecom Australia is continuing a major investment programme in the Wagga Wagga Telecommunications District to improve the service it provides to its customers in the area. More than \$15 million will be spent this year in installing, maintaining, operating and extending the telephone network throughout the area.

Included in this account is a wages bill of more than \$9 million to be paid to more than 700 full-time staff employed by Telecom in the district.

As a result of Telecom's multi-million dollar investment the position has now been reached where in excess of 90 per cent of the 50,000 telephone subscribers within the Wagga Wagga district have access to STD facilities.

In addition, work has now been completed in various exchanges which will make it possible to offer subscribers in Wagga Wagga, Temora, Gundagai, Tumut, Tumbarumba and Coorambundra access to International Subscriber Dialling (ISD) facilities if they request it.



Managing director, Mr Jack Curtis, (seated) announced the introduction of ISD facilities for Wagga Wagga when he visited this provincial city recently. He is pictured here with Wagga Wagga's District Telecommunications Manager, Mr Harry Angel, at the media conference at which he announced this new development. Photograph courtesy Daily Advertiser, Wagga Wagga.

To cater for the growth in Wagga Wagga, some \$686,000 is being spent this year laying cables to new housing sub-divisions and extending telephone exchanges in the city to handle the greater number of subscribers and the growing volume of traffic.

About \$670,000 will be spent on similar work in Albury/Wodonga this year, while a further \$1 million is being spent on improving telephone services in the smaller towns and rural areas within the district.

The impact of this continuing investment programme is being felt in many areas within the district, especially in the replacement of manual exchanges with automatic exchanges.

Between March and June 30 the number of subscribers linked to manual exchanges in the district will decline from the present 3,100 to less than 2,200 with the replacement of five manual exchanges with modern automatic exchanges.

The cost of this replacement programme is about \$530,000 but it will enable Telecom to offer these customers the full benefit of STD facilities.

Over the past twelve months the growth in demand for telephones has increased by 10.8 per cent at Albury/Wodonga, and 9.9 per cent at Wagga. The average for the district as a whole was 7.8 per cent.

Owl star in new roles

BeepA's great success as the carrier of Telecom's STD cost savings message has secured for our little owl character a well-earned star role in a new series of STD commercials.

The new TV commercials are already in production and are due to go on air next month.

They show BeepA in some new situations — in one of which he is joined by a troublesome frog. In another our hero is seen relaxing on holiday.

The new themes are carried forward into press advertising and display material. Customer Services believe that Telecom staff will enjoy being associated with BeepA in his new role.

When he started digging into the telephone connection business, Macleay Argus reporter Chris Horn found there was a heck of a lot more to it than just sticking an instrument on a customer's wall. His article gave such a good insight into the "hidden extras" that we reprint it here with kind permission of the newspaper.

You take a telephone for granted — except when you yell about the rental charges and the cost of nine cents for a local call. As for the \$120 connection fee — when all Telecom has to do is send a man in and hand over a phone and a telephone book — that's downright ridiculous — as EVERYONE knows. At least, that's what CHRIS HORN (like the majority of Kempsey citizens) thought until recently.

After spending a day doing the rounds of a telephone installation with KEN McCALLUM — the district telecommunications manager at Kempsey, our Chris has changed his mind a little. In fact, he says — there are few things which appear as simple, but are as expensive, complicated and highly organised as ...

The 'phones are going on out South Kempsey way.

Soon the bells will be tingling through Donningalong, and sounding in the newly-completed halls of homes on the River Meadows estate.

For some people — like Mrs E. A. (Irene) Rosenbaum, of Nicholson Street, South Kempsey, it will mark the end of a long wait. Mrs Rosenbaum has waited nearly a year for her telephone.

She says: "We are getting on a little and decided we should have the 'phone on instead of having to go out to make a call from a public box. And, of course, the children will be able to contact us so much more easily."

Acting lines officer, Brian Hinchcliffe, was there to hand over the shiny new telephone — and a copy of the Kempsey telephone book. Outside, a Telecom work crew, who had begun working at 7.40 a.m. to dig a trench and connect the telephone wires, were cleaning up.

VISIBLE SIGN

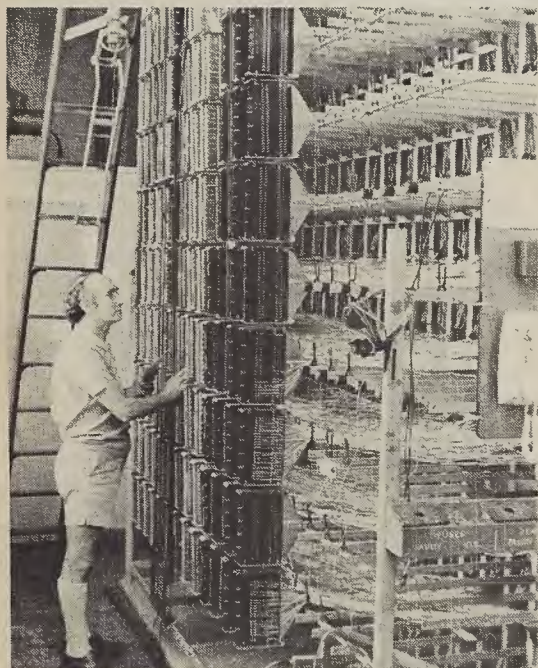
They were the visible sign of a long complicated installation. The telephone handed to Mrs Rosenbaum at 11.40 a.m., by itself cost \$25.

The cost of connecting it (including its percentage of the necessary switching equipment and cables) was \$3,500.

Said Mr McCallum "When you think about it the cost of a telephone —



Highly visible in the connection process: cable jointer Brian Fitzjohn connects a wire pair from Mrs Rosenbaum's home to a new 10-air cable just installed in the street outside her home. Ditcher operator, Cyril McPhail covers the new cable. Below: Part of the work which has sprung from forward planning — Glen Allard connects a new 400-pair main cable (newly installed on the railway bridge across the Macleay) to a main distribution cabinet. Once he has completed his work the cabinet will serve 300 new connections in South Kempsey.



The main frame of the exchange where all the telephone lines "end". Senior Technical Officer Graham Wilson is cross-connecting one of the 3200 lines to the nearby switching system.

a \$120 connection fee — is pretty good.

"People only see the telephone itself — and the man who screws it on the wall — or splices the cable.

"Most people have no chance to see the tremendous back up that goes into providing a service. They make the mistake of comparing a telephone with a power, water or sewerage connection.

"If a sewer, water main or power line runs past your property you can tap straight in. There is really no worry about capacity.

"However, with a telephone you must have two wires running right back to the exchange. In fact we allocate four wires to each connection so we

have a spare, or in case the service has to be extended.

"Where there are no unused wires, we have to put new ones in all the way."

With Telecom, because of financial restrictions and the high cost of

equipment it is now working only six months ahead on most planning. There is little "excess capacity" in most areas.

A \$27,000 cable relief project has just been completed, with the installation of a new cable across

THE \$3500



the railway bridge. This will allow the installation of hundreds of new telephones in South Kempsey and adjacent areas. Most of the other lines are already in place, the bridge link across the Macleay being the final step before installations can begin.

Next on the augmentation scheme is a \$110,000 project to provide additional lines to West Kempsey. An additional telephone cable up River Street will serve new connections in the Greenhill and Aldavilla areas.

STARTS NOW

This will start in May and the first connections, it is hoped, will begin by June.

Extensions are also scheduled for the growing South West Rocks area.

Mrs Rosenbaum's 12-month wait (because of the lack of cables to West Kempsey) was a little unusual.

DAY OR TWO

If lines are available a telephone can often be connected within a day or two, or, at most within three months.

Involved in the work will be men from a crew of 420 in the Kempsey Telephone District, of which 110 are in the immediate Kempsey area.

Of these, 50 are office staff, about 30 are linemen and 15 technicians.

"Getting the 'phone on" begins, usually, with a visit to the Telecom business office in the Civic Centre, West Kempsey, where the type of telephone wanted can be chosen and that vital che-

que handed over.

From there, 11 major operations must be completed to have the phone connected.

Much of the work has, usually, already been done.

The plans are being continually updated. There are probably 5000 sheets dealing with the Kempsey area, which reveal just where a line is available or a connection has been made.

The assigning officer has records of 26,000 telephone and other services in the district, showing the cross-connections of some 35,000 main cable pairs to 75,000 distribution pairs.

SPARE PAIR

To connect one additional telephone service a spare main pair feeding the geographical area of the applicant (say East Kempsey) must be available, and a spare distribution pair feeding to the applicants premises.

These are "jumpers" (joined) at a cross connection point called a Pillar which then provides an exclusive pair of wires to the phone from the Main Distribution Frame in the Kempsey exchange.

If a line is available an order goes out through the newly installed SPAN

Terminal, a computerised Service Provision Advice Network based on a visual display terminal.

This will automatically inform all departments concerned with the installation — including the Telecom statistics office in Sydney, and the local postmaster who will eventually deliver a replacement telephone book. The directory printers will be advised to include the number in its next edition.

The Kempsey depot (advised by SPAN) will have cable stock, conduit (and a telephone) available for the work crew, who will do the line work and installation.

In Mrs Rosenbaum's case, a pick and shovel crew cut a narrow trench through her garden to carry a four-wire, plastic-covered, conduit protected cable from an "pit" just outside the fence.

A 10-line cable connects the pit outside her home to a junction box several hundred yards away. In Mrs Rosenbaum's case, there were no other phones in her immediate area, and the cable — laid with the help of a \$10,000 ditch digger — was a new one.

MAJOR JUNCTION

From the connection box a 200 line cable runs back to a major junction box several streets away. From this other cables (including the newly completed lines across the railway bridge) connect South Kempsey with West Kempsey exchange.

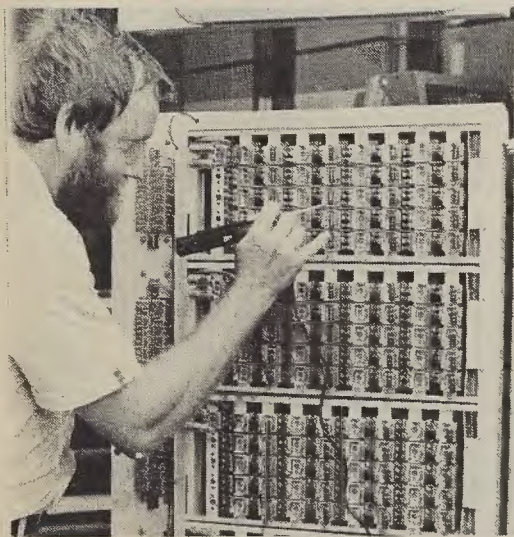
At the exchange the new 200 line cable has been connected into an extension of the switching system.

Any future connection should need connections made only to the closest pit (the telephone or customer end of the system) and at the exchange itself (by connecting the main frame, where the 200 terminals have been wired in, to one of the switches in the nearby switching gear). Once this connection is made, the meter can be read and the paperwork for the directory entering and billing (which has been going on concurrently) completed.



Acting lines officer Brian Hinchcliffe, test completed, watches Mrs Rosenbaum make her first call.

CONNECTION



Ron Browne works on one of the newly-installed switching stations in the Kempsey exchange — a newer technology to handle a greater number of calls.

This begins with planning to provide exchange sites, buildings and equipment and the routes for the main cable and conduit feeds of the telephone network.

Once the application for Mrs Rosenbaum's telephone was received it was forwarded to one of the most vital — but unknown Telecom divisions — the cable assigning and estimating office.

ON THE MAP

Tucked away in the West Kempsey Telecom building, the planners have diagrams of every cable installed in the Kempsey district from the earliest days.

Telecom has won a major industrial display award for the first time at the largest agricultural and industrial show in Australia. The Telecom display was judged the best among some 40 government and semi-government exhibits at this year's Royal Easter Show, held at the Sydney Showground.

100 years of Australian Telephony

More than a million people visited the show, which is held annually over 10 days. Thousands saw the Telecom display daily.

The prize-winning display represented the combined efforts of Sale Branch, Publicity, Public Relations, technicians and tradesmen in Sydney. It was manned 12 hours a day by Telecom staff seconded from throughout the metropolitan area.

This year for the first time staff wore uniforms at the display. They donned specially designed

the Deputy Chief Draftsman, Mr John Carpenter, on behalf of the Publicity Sub Group, and the Manager of the Special Products Section of the Sales Branch in NSW, Mr Frank Mammoliti.

Telecom chose as its theme for the display the celebration this year of 100 years of telephony in Australia. The theme was portrayed pictorially along a giant, transparent, perspex mural and by mounting a comprehensive historical exhibit.

The exhibit included early handsets and model



Mr Mammoliti, wearing the Telecom jacket (right) and Mr Carpenter (left), accept the award, comprising a blue sash and two shields, from RAS officials in front of the Telecom display at the Sydney Showground.

TELECOM CAPS SUCCESSFUL SHOW SEASON WITH SYDNEY RAS AWARD

Telecom gold blazers to distinguish them from the crowds.

Telecom defeated the Electro 80 Committee (second) and the State Department of Education and the State Lands Department (equal third) to win the award.

The RAS judges awarded points out of a maximum of 200 for customer appeal, display, visual or animated methods of communicating product benefits, originality in the use of stand, and presentation of personnel. Show officials declined to disclose the Telecom score for reasons of confidentiality.

The award, comprising a blue sash and two shields, was accepted by

telephonists in period costume. Young visitors were invited to talk to one another with the separate mouth and ear pieces of telephones used in the first experiments.

The participatory aspect was extended throughout the display. To promote BeepA Time and Touchtone, patrons were given the chance to make a free, STD call.

People queued gladly to talk for three minutes to a friend or relative, at the same time becoming eligible to win a Telecom show-bag and one of 20 free ISD calls in a competition.

The bank of five Touchtones ran "hot" as excited showgoers rang through their Easter

greetings courtesy of Telecom Australia.

Visitors were invited also to test their general knowledge by taking part in a "computer quiz", on two visual display units operating at the display.

Telecom connected the visual display units to its computer centre at North Sydney through a modem. Participants were asked to choose a correct answer from four alternatives for each of 12 questions.

By standing in front of a micro wave dish erected in the centre of the display area people could discover for themselves the basic principles of voice transmission by air.

The dish was a natural addition to a video tape showing how Telecom harnesses solar energy to power its micro wave repeater stations in out-back Australia.

A popular activity among young visitors was a "voice" print out, whereby children spoke into an ordinary telephone handset, saw their voice pattern come up on a screen and took away with them a paper print out.

A futuristic, prismatic dome, erected in one alcove of the display, carried a wide range of modern telecommunications equipment including

telephone handsets, teleprinters, and a car radio telephone.

In addition to the free STD calls, BeepA time was promoted by a giant, animated display of BeepA and his Friends.

The RAS prize was the culmination of a series of successful Telecom exhibits at shows throughout NSW in recent months.

Last October, Telecom won second prize for overall display at the Wollongong Show. This year's awards include a second at Armidale for the indoor section, a first for a Telecom float at Gosford and at Penrith, best commercial exhibit.

Sales Office promotion kernel: blimp

"Look — up in the sky — is it a bird? Is it a plane? ... no it's the Telecom blimp." This is not quite a direct quote but the blimp drawing attention to Perth North Telecom District's Morley Business Office did draw exclamations.

Six metres long and 2½ metres in diameter, the helium filled balloon was trucked to the site already inflated. For six days it then hovered 100 metres above the Business Office.

The Department of Transport was somewhat worried that the blimp might fly to greater heights to meet up with domestic air traffic such as Boeing 747 and 727 aircraft.

It stipulated that nylon rope had to be used to tether the giant balloon and that it be sheathed in mesh for the first few feet, in a bid to thwart the knives of would-be vandals.

To boot, it had to have a keeper to sit there day-in-day-out just to keep an eye on things.

The aim of the exercise was that people would see the blimp from anything up to 10 or more kilometres away and as they approached within about a kilometre would be able to read the message "Telecom Morley Sales Office."

We are pleased to report that the somewhat different sales campaign went without a hitch and the blimp did remain safely tethered.



• The public has taken BeepA to their hearts. Research conducted recently proves it!

Before BeepA

- Only 50% recalled seeing our STD advertising.

After BeepA:

- Over 80% recalled STD advertising.
- Over 54% now know that STD is cheaper after 6 p.m.
- BeepA's going to continue to keep the awareness level climbing and over the page you'll read about a new task he'll be tackling.

WELL DONE BeepA!

BeepA DOES IT!!

BOOSTS AWARENESS OF STD SAVINGS AFTER 6 PM TO OVER 80%



Now! BeepA tackles new STD challenge.



Aims to increase awareness that with STD you only pay for the time you use.

As well as continuing to promote "STD's half price after 6 pm" message, our wise friend BeepA is about to tackle another task.

Research has shown us that people are not sufficiently aware that with STD you only pay for the time you use.

BeepA—and his Mum—will be spreading the word right across Australia. On T.V. In newspapers.



"I'M TIED UP AT THE MOMENT BUT I'LL SEE YOU SOON ON LOTS OF NEW POINT-OF-SALE MATERIAL!"

"Window banners, posters, mobiles, moving counter units, clocks—boy, have I got lots of new and novel material for you to use. To help me make as big a success of my new task as I did with the first. 'Be seeing you!'"



TELECOM CONSULTATIVE COUNCIL

A full report of proceedings of the Telecom Consultative Council meeting held in Adelaide on April 16 and 17 will appear in the June issue of Telecom.

OUTPOST GRAMS COST SLASHED

The spirit of Community Access 80 is to be carried even further by Telecom Australia to its customers on outpost radio services with considerable cost savings to about 5,700 outpost radio customers on telegram charges. These are mainly in the Northern Territory, outback Queensland and W.A.

Customers sending or receiving telegrams involving outpost radio stations and their service towns (base station) will pay only five cents a word for the telegram with a 12 word minimum charge of 60c.

Previously there was a fixed charge and a 10c a word charge.

Outpost radio telegram traffic is about a quarter of a million messages a year and Telecom recognised — through Community Access '80 — the need to help people in areas where telephone services are not available.

Overseas phone is 50

On April 30, 1930, Australia's first overseas telephone service was launched when the Prime Minister of the Day James Scullin spoke by radio telephone to British PM Ramsay Macdonald.

The 50th anniversary of the occasion was marked by a similar ceremony on April 30, 1980 with Prime Minister Malcolm Fraser speak-

ing to British PM Margaret Thatcher by global satellite relay.

The first commercial international call between the Overseas Farmers Co-operative in London and the Producers Wholesale Federation in Melbourne was also re-enacted and a small anniversary celebration held in Lonsdale Telephone Exchange.



The large number ring slightly less than actual size. It comes with simple large print fitting instructions.

THIS AID IS FREE

The new large number ring consists of raised (tactile effect) black numerals inscribed on a white plastic dial surround with self-adhesive pads on the underface to allow customers (or helpers) to fix the aid to their telephones.

Because of the variation in dial types in the field, not every dial will accept this aid. However with over 70% of the telephones installed having the digit "3" in the 12 o'clock position, most users can be assisted.

In line with its philosophy to assist disabled users of telecommunications where possible, Telecom has absorbed the considerable development and distribution costs and offers the new aid free of charge from Telecom Business Offices.

It has enlisted the help of specialist organisations representing the low vision (or PRINT handicapped) community in distributing the aid to individuals needing it.

The "large number ring" will make dialling easier for many of Telecom's customers with low vision and should encourage more effective use of their telephone service, particularly when they are socially isolated.

Members of the Adult Tech-in-Training Nineteen Fortyniners had a most successful re-union lately but at no time midst the revelry did they forget sick colleague Geoff Twist out of action in Heidelberg Repatriation Hospital.

At the conclusion of the function, a group took off to the hospital where they gave Geoff a complete review of the occasion and George Warr presented him with some of the goodies.

Some of the events of 40 years ago recalled by the 62 present who had attended the lines school at Fisherman's Bend included:

CONVIVIAL FORTYNINERS DIDN'T FORGET THEIR SICK MATE

● many tool kit holders burnt by would be jointers who failed to point the blow lamp in a safe direction —

● Jack Davenport secretly short circuited a buzzer which indicated that Max Davies' joint was full of short circuits

when tested by Alan Poyser.

A roll call was organised starting from the end of the alphabetical list. All



The men who co-ordinated the successful Fortyniners get together: Keith Davie, Alf Marshall, Max Davies and Don Yates.

attending will not forget the smile that came over Ray Zimmer's face when he was first to be called.

Alf Marshall took over the role of Toast Master and called on Keith Davie to propose a toast to instructors who helped to get the group through to a technician status and many more to senior technician. A response to the toast was made by Keith Neilson and Len Williams.

The instructors who attended were Harold Cook who started many a technician's career when organising 3 week and 18 week courses, Keith Smith who taught radio, Alan O'Le, Long Line, Jack Snow, Subs Maintenance, Keith Neilson, Switching, Len Williams, Long Line.

LAST OF ITS TRIBE

by BARBARA NEIL, HISTORICAL OFFICER NSW

In a very small farewell ceremony in New South Wales recently the last Teletype teleprinter in use in the public telegram network was taken out of service from Willoughby Post Office and handed over to the Telecom Historical Section.



The last telegram is received on the teletype teleprinter at Willoughby Post Office, New South Wales.

L to R: Des O'Sheehy, Walter Sheret, and Trevor Barnett.

The ceremony may have been small but the occasion was significant. In its day the Teletype teleprinter played an important role in bringing Australia's communication system out of a backwater and into the modern world.

Telecom (as the Postmaster - General's Department), acquired its first Teletype teleprinters for the public telegram network just after World War II.

The machines had been brought to Australia by the United States Army during the war. In fact the early machines were still labelled "U.S. Defense Department" on the inside.

Prior to World War II, telegraphic communication in Australia used mainly morse equipment and a few Creed teleprinters. The United States Army arrived in the 1940's and considered Australia's communications "backward" and promptly brought in their own equipment.

The Postmaster-General's Department acquired its first Teletypes as war surplus from the departing United States Army. Later the machines

were purchased from the United States.

Frank Bailey from Telegraph Subscriber Maintenance in Sydney remembers the early days of the Teletype.

"They were treated just like babies in those days. They were stripped down every six months and examined for wear."

When asked the age of this particular machine in Willoughby Post Office, Frank joked, "Oh, it could be an original. Just like grandfather's axe — original except for 3 new heads and 4 new handles!"

This teleprinter was installed in Willoughby Post Office in the mid 1970's, replacing a Creed teleprinter. In turn, a Siemens teleprinter has now replaced the Teletype.

"A beautifully made machine," was Frank's comment in farewelling the Teletype from the public telegram network in NSW.

Attending the ceremony were Trevor Barnett, Postmaster at Willoughby, Walter Sheret, postal clerk, Mick Wilson from Telegraph Installation, Des O'Sheehy from Record Services Section, Frank Bailey and Barbara Neil, Telecom Historical Officer.



Staff of the Data Transcription Unit (Data 100) in Communications House, Brisbane, won high praise for their work in extreme heat during the recent Queensland power blackouts.

With the central city area blacked out and no air condition-

WARM PRAISE FOR HOT WORK

ing in the building, they worked in temperatures of 35 degrees celsius and above.

They punched

through 4000 messages — their normal quota under normal conditions — before finishing on the Friday.

STAFF IDEAS IN FLOAT

Telecom Australia, for the first time, entered a float in the Canberra Festival Week Procession, held in the streets of Canberra recently.

The procession attracted some 50,000 people and the float was placed on exhibition the following day at an event held in Commonwealth Park, with crowd attendance estimated at 45,000 people.

The float was designed and presented by the Acting Projects Officer, Ron Tollenaar, and featured a theme of "Touchfone to the World", combining ISD and STD dialling. National flags were made available by the various embassies in



Canberra and ideas of the district staff were utilised in the presentation of the float.

The float was extremely well received by the large crowd.

AWARD TO RECOGNISE LINEY'S SAFETY WORK



The Services Branch of the Engineering Department in Queensland is introducing a safety award to promote safety and honor a Telecom employee and union official who contributed much to accident prevention.

The man to be honored is Bob Dougall, a lineman and official of the Australian Postal and Telecommunications Union.

The award will be known as the Bob Dougall Safety Award and it will be made to the staff group in Services Branch which has the most improvement in accident performance during the year.

Superintending Engineer John Bartlett outlined the award at a recent meeting attended by union officials.

John said all agreed it was a fitting tribute to Bob Dougall, who was ill in hospital.

ABOVE: Discussing the Bob Dougall Award — (l to r) John James APTU Assistant Secretary, Bob Broadbridge (ATEA representative), John Bartlett (Superintending Engineer, Services Branch) and John Florence (Chief Accident Prevention Officer).

Friends back Helena's Miss Aust. campaign



Say "Hi" to Helena Stralinski and let's all wish her well. She is a Telecom entrant in the "Miss Australia Quest."

A clerk in Metro Installation Section, Perth, she is 21-years-old and is a country girl at heart. She was born in the W.A. wheat-belt town of Merredin, where Dad is a foreman in the Public Works Department and lived there for 18 years.

Helena joined Telecom at 17 as a telephonist but after a year the local exchange was closed down and she was offered a transfer to the "big smoke."

After passing her clerical exam, Helena worked in Construction, Primary Works, Country Installation and now the Metro Installation Section of the Engineering Department.

It is the friends that Helena has made in Engineering that decided to get behind her to offer the support that Miss Australia Quest entrants need.

HOPES FOR SPONSORS

Un-sponsored at this stage ... but eager to accept offers of sponsorship from any business houses that might happen to read this article

... her committee of Lyn Henderson, Alan Johnson, Danita Plozza, Sain Smith, Nelson Santinear, Liz Allen and Dave Reid have so far held only a raffle.

Their plans however, include a Cabaret, Quiz Night, Car Rally, Fashion Parade, Bottle Drive and Lamington Drive.

Helena has a wide range of interests — swimming competitively for 7 years, temporarily retired from netball, and last year took three months' leave of absence to bus her way around Canada and the United States with a girlfriend.

The first of a new system of annual awards of the NSW Division of the Telecommunications Society of Australia were presented by the State Manager, Dr Ron Cullen at the Society's Annual General Meeting in Sydney last month.

The awards were won by Paul Lee, a 23-year-old Technical Officer Grade 1 from Penrith Exchange and Neil Harris (21) a Draftsman Grade 1 at Lismore.

In a short address Dr Cullen spoke on how the telecommunication industry depends on a special combination of people and technology.

"We hear a lot about

technology and somewhat less about the people who make it work," he said. "One without the other is nonsense. There is the fear that new technology will be used to downgrade the quality of work experience in our industry.

"There are those who suggest that in the end man will be able to step aside and other primates

will be trained to run the industry.

"While I think monkeys have their place in the scheme of things, I don't think they have a role to play in the development of telecommunications in Australia."

SOCIETY PRAISED

Dr Cullen praised the role the Telecommunications Society was playing in fostering the development of those who work in the industry, and the introduction of the awards which are intended to encourage people to develop their skills, and to reward excellence.

Paul Lee was awarded the Society's Medallion and books to the value of approximately \$50. Paul completed the Electronics and Communications Certificate Course in 1978 and commenced part time studies towards the Bachelor Degree in Electrical Engineering at the N.S.W. Institute of Technology. He is at present in Stage 3.

Paul's Supervisor, Tom Matherson says "I have worked in the service for forty years and Mr Lee's present performance and future potential is greater than any other trainee with whom I have been associated." High praise indeed!

Neil Harris was awarded books of his own choice to the value of \$50. He was awarded a draftsman traineeship in 1975 and in 1978 completed the Land and Engineering Survey Drafting Certificate Course at Sydney Technical College. Neil is considering enrolling for the Architectural Certificate Course this year.

The Chairman of the Society, Bob Langevad, explained that the annual awards are open to all students (technical and non technical) and where in the opinion of the committee there is sufficient merit, they may be accompanied by the Society's Medallion.

Applicants for the 1980 awards should have

completed, in 1979, their first course of at least two years full time study (or its equivalent in part time) in a technical or non technical field.

Scholastic ability alone is not the determining factor in selection of award winners. All applicants are judged on academic results, attitudes, job performances, leadership potential, citizenship and community activities, so details of these requirements should be included in applications.

Applications should be forwarded, no later than 31 August, 1980, to: The Secretary, NSW Division, Telecommunications Society of Australia, Box 6026, GPO, Sydney, NSW, 2001.

Supervisory officers within New South Wales are requested to ensure that all staff under their control are aware of the opportunities available to them under this award system of the Telecommunications Society of Australia (NSW Branch).

NZ visitor



Mr Pat Hosking, Assistant Director-General (Industrial Relations, Personnel and Training) New Zealand Post Office paid a two day visit to Telecom Sydney during March following a three day visit to Headquarters, Melbourne.

A very busy itinerary of discussions and visits kept Mr Hosking fully occupied during his Sydney stay.

Mr Hosking was taken on a tour of EMC/ESC Associated Exchanges at Stanmore, Glebe and Mascot and was very interested in the progress made in the operation of the recently installed ARE equipment.

During a visit to the Directory Assistance Centre he was shown the newly introduced VDU system of locating required numbers in comparison with the old system of telephone directory checks.

More to Mr Hosking's heart was a tour of inspection of the new ADP Pay Process Centre of the Expenditure Branch at the Kent Street Office. Mr Hosking showed great interest in the area and was most impressed with the speed and efficiency of the Data Process operators.

Mr Pat Hosking, Assistant Director-General (Industrial Relations Personnel and Training) New Zealand Post Office (left) talks to Mr David Denton during his visit to Sydney's ADP Pay Processing Section.



Paul Lee, Technical Officer, Penrith, Bob Langevad Chairman, Telecommunications Society, Neil Harris, Draftsman, Lismore, and Dr Ron Cullen, State Manager, NSW, at the presentation of annual awards of the Society.

TELECOM PARTICIPATES IN INTERNATIONAL YEAR OF DISABLED PERSONS, 1981



INTERNATIONAL

The United Nations has proclaimed 1981 as the International Year for Disabled Persons, (IYDP) with the theme FULL PARTICIPATION AND EQUALITY.

"The term 'disabled person' means any person unable to ensure by himself or herself, wholly or partly, the necessities of a normal individual and/or social life, as a result of deficiency, either congenital or not, in his or her physical or mental capabilities". (United Nations Declaration on the Rights of Disabled Persons)

NATIONAL

Within Australia, the Minister for Social Security has been appointed as the Minister responsible for the Commonwealth's observance of IYDP, and Australia's aims for the Year are ACCESS TO COMMUNITY LIFE AND PREVENTION OF DISABILITY.

For those who may have community interests in relation to the disabled, further information on IYDP is available from: International Year Unit, Department of Social Security, PO Box 1, Woden ACT 2606. Telephone (062) 89 3551.

A joint national newsletter will be put out periodically by the above Unit, and this will be forwarded to those persons and associations on the IYDP mailing list.

TELECOM AUSTRALIA

Within Telecom the Personnel Department at Headquarters has responsibility for the main carriage of Telecom's Program for IYDP. However, as many other areas are involved in projects which affect the disabled, a Working Party has been formed.

"To co-ordinate and encourage the development of a program of activities as Telecom's contribution to International Year for Disabled Persons — 1981."

Customer Services, Engineering, Personnel and Research Departments and the Information and Publicity Office are represented on the Working Party. State Administrations will be contacted as necessary during the development of the program.

Management and staff, especially those who may be disabled themselves, are invited to make suggestions regarding Telecom's contribution to the Year. These should be received by 30 September 1980 and addressed to:

General Manager, Personnel, 199 William Street, MELBOURNE VIC 3000.

Telephone enquiries may be directed to: Kathy Hancock (03) 630 7792.

WA's 'better' pipeholder

A "vehicle mounted pipe holder" has been devised by members of the Perth South Telecom District's Telephone Installation Depot at Bentley.

In the past, TID crews have slid their PVC piping onto the roof of their vehicle or have taped it to their ladder.

Driving down the street ... the van stops suddenly ... the piping hurtles forward like a spear which could impale either person or property.

Variations of the Telecom WA version have

been around for some time but have been made of a PVC pipe that becomes brittle in sunlight and subsequently fractures easily.

This model features sewer waste pipe with a guaranteed life of at least 10 years. A screw cap is fitted at each end for ease of access and is secure enough to prevent spearing accidents when the vehicle stops suddenly.

A small slot can be cut in the pipe near one end so that the number of pipes remaining in the holder can be seen without removing the end cap.

It is mounted on the vehicle's ladder support rack using two PVC coated mild steel brackets and can be fitted to either side, although the passenger side is preferred so that when removing pipes the installers are not standing near the line of traffic.

It takes less than an hour to construct and fit the holder, it is lightweight, inexpensive and parts are readily obtainable making it a reliable and economic solution for the securing of those potentially dangerous pipes.



Lineman Ian Smith, shows ease of working with vehicle mounted pipeholder.

Testing cricket

News has just reached us of a herculean tussle on the cricket field between Vic. Country Installation West's Office and Depot staff versus Field staff. Some of the highlights were:

- Rhonda Voysey hitting a four while her husband Brian made only 3.

- Glen Voysey playing for both sides
- Joe Spano run out with help of batting partner Brian Burton
- Harold Preston's opening for field staff with three fours
- Alan Foster and Carolyn Hutchinson's sparkling 30 partnership.

The outcome was Field Staff 108 d. Office/Depot 83.

They say that Col Pascoe, Harold Preston and Trevor Pope are likely to be shanghaied to office duties to give Office/Depot more zap next year.

The Winners (right) — Rear: Lyle Bryce, Graeme Bradley, Trevor Pope, Des Nolan, Col Pascoe, Harold Preston. Centre: Harold Preston jnr. Front: Darcy Bell, Brian Burton, Joe Spano.



First automatic call distributor for test



Another milestone was reached in the Headquarters Development Division Sydney Office on Monday, 14 April 1980, with the installation in the Sydney office laboratory, Parramatta Telephone Exchange of the first Automatic Call Distributor (ACD) for listing evaluation in Sydney.

The Sigma Data Corporation supplied the ACD and conducted a two-day system appreciation course for Telecom officers who will perform the evaluation.

During the course, the laboratory was inspected by Pat Taylor, Manager Sydney Office Group, Switching Design Branch, Jack Grogan PTO Parramatta Exchange and Bob Walker STO Customer Networks and Equipment, NSW.

The photograph shows a group who took part in the ACD appreciation course. Standing, from left: Denis Bowdren (E3 PABX Design), Len David (ST02 Sydney office), Bob Walker (STO CN and E NSW), Kevin Cody (E3 N.P.O.), Andy Fung (E3 Sydney office), Jim Wilkinson (ST01 Sydney office), Merv Sewell (E3 Customer Networks), Graham Smith (ST01 on loan to NPO from NSW), Bernie Vickerman (ST01 Customer Networks), Graham Brennan (ST02 Customer Networks). Seated: Roger Kennedy (Sigma Data Corporation), Jack Grogan (PTO Parramatta Exchange), Pat Taylor (E3 Sydney office).

MANHOLE COVER AN OBJECT d'ART?

TONY THINKS SO



Above: Tony Lusk dusts off the latex mould. Below: Telecom staff Graham Gaskin, Ian Brimble and "Tubby" Herbert display the old cover.



Few things are more mundane than manhole covers — they are trodden under foot with not a thought. But time can change that and a manhole cover can become a work of art.

Tony Lusk, of Prospect, literally stumbled on an artistic find when he discovered pre-Federation manhole covers still in use in Stanley Street, North Adelaide. The covers were cast in the late 1800s when South Australia, as in the other states, ran its own postal and telegraphic service.

Artist Tony, 37, of Prospect (an Adelaide sub-

urb) is, in his own words, "interested in man-made objects that have in some way been transformed through various forces acting on them."

He explained why an old chipped and cracked concrete manhole cover had captured his imagination.

"I am interested in buildings that have been demolished, revealing unexpected textural qualities and composition. Plates in the ground, parts of roadways and footpaths where traffic has given the objects an interest they would not otherwise have.

MADE MOULD AND CAST

"I explore the textural qualities of these objects and record them by taking photographs and crayon rubbings or some other method of presentation that is going to best show the intrinsic quality of the object."

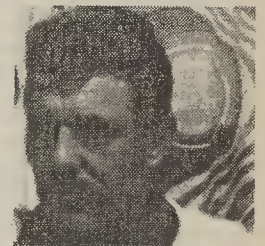
Tony wanted to make an exact replica of one of these covers detailing the myriad surface markings but, to do this, it was necessary to first make a mould and then cast.

Obviously he was unable to do this on the footpath of Stanley street so, with the help and co-operation of SLO 1 "Tubby" Herbert,

Graham Gaskin and Ian Brimble of the Prospect Line Depot, the cover was loaded into his car, the necessary operation was carried out and the cover was back on the footpath within 72 hours.

Tony was delighted with the result, and Telecom is delighted also to be reminded that it has some relics of historical interest and value under its very nose or, in this case, its feet. Footnote: Unbeknown to any of the parties, a work order was being processed at the same time for the replacement of the covers. The march of progress and time has finally written finis to the Stanley Street cover story. They will be kept for posterity.

Small Holders Society



Flemington Lines (Vic) jointer Walter Pridmore who is secretary of the Small Holders Co-operative Society which was formally registered as a Community Settlement Society on September 11th, 1979, under the Victorian Co-Operation Act 1958.

The aim of the Society is to acquire rural real estate far more cheaply than is available on the open market.

It is the intention of the Society to purchase broad acres and sub-divide that to members requirements.

Any person interested in the concept of this non-profit Society is invited to contact the Secretary Walter at 38 Leander Street, Footscray, 3011 or phone (03) 689 6163.

Joining fee \$17 plus \$12 a year levy to cover admin. expenses.

Burwood TIC's family celebration

At Burwood (Vic) Telephone Installation Centre, they reckon they're one big happy family so what better than a family celebration to mark the first anniversary of occupation of their modern \$250,000 building?

A barbecue was arranged at the depot, forty staff members including wives and partners and 15 kids turned up and a great time was had by all.

Guests were welcomed by ST02 Sam Costanzo and SIRM Don Yates.

A highlight was the cutting of a birthday cake sporting a

solitary candle.

Auburn 2 TIC was formed from staff at Hughesdale TIC and Auburn 1 on a tem-

porary base to become Burwood TIC. Seven years later, it became fully operational.

In the photo, Sam

Costanzo cuts the birthday cake held by TO2 Vin Gardiner, with TO3 Terry Symonds looking on.



CEDRIC COPS COVES COPPING COPPER



Around Armidale (NSW) District, they're not given to messing around with flowery phrases — just the facts, bang, bang, bang. Here is how they tell the story of the good work of Lines Officer Cedric Wall in charge of Guyra Line Depot who played an important part in catching a gang of copper wire thieves.

12.15 p.m. — 8.2.80 — Mr Williams: Black Mountain phone reported out of order.

2 p.m. — 11.2.80 — Reported to Line Yard.

3.30 p.m. — 11.2.80 — Gang out to repair fault.

Discovery of 15 spans of copper wire missing — Reported to local police and District H.Q. at 4 p.m.

11.2.80 — Ben Lomond 7, 8 and 9 junction out of order.

14.2.80 — found 8-10 spans of wire missing; repair carried out.

15.2.80 — Ben Lomond off air again. On investigation found wire cut 4 miles north of Guyra and 8 spans missing. It was found that thieves had been disturbed, as the wire, though cut, had not been rolled and removed.

Mr Wall returned to Guyra and reported his finding to police; returned to the scene with police and suggested that the gang would return that night to pick up wire.

After work at approximately 7.30 p.m. Mr Wall drove up the old section of the New England Highway where he sighted a red van with a two wheeled trailer attached and a man acting suspiciously.

He travelled on to Llangothlin township and phoned the police in Guyra from a P.T.

The police moved out and apprehended three suspects who were taken back to Guyra, questioned and subsequently charged with the theft of copper wire (550 kgs), the property of Telecom Australia.

Recovery was made by Sgt. Mercer at a site approximately 2 miles north of Llangothlin. Other areas that the gang had operated in were Gilgandra and Gunnedah.

Police thanked Mr Wall for his co-operation.

[Later at Glen Innes, three men were each fined more than \$1000 for stealing the wire valued at \$1008].

Joyce was the accurate one



From compiling the Q3 Maryborough district telephone directory to more time for her favorite hobby of crochet work — that is what retirement means for Joyce Warnick, after almost 42 years service.

Maryborough district manager (Noel Ryan) said Joyce was recognised throughout Queensland as having one of the lowest error rates in entries — 0.05 per cent.

Beginning as a telephonist in Gayndah in 1937, Joyce transferred to Brisbane in 1952 and was a supervisor at the Maryborough exchange for a number of years before transferring to a clerical position in the district office.

Joyce is also an active member of the Maryborough Darts Association and indoor bowls club. A large crowd gathered in Maryborough for her farewell.

Maryborough District Telecom Manager, Noel Ryan, presents a gift of a clutch purse to Joyce Warnick at her recent farewell. In the centre is Marje Kinghorne.

Cook pens grateful recipe for Telecom

Jan Oldham is one of Australia's better known cookery writers, appearing on the ABC nationally and writing for newspapers in Sydney and Perth. She was in Perth recently to launch a new cookery book and she was so pleased with the courtesy and the efficiency of the service that she received from Telecom, that she has written a recipe especially for the Commission.

Jan, a commercial artist and a holder of a Cordon Bleu certificate, has accumulated recipes from around the world from such famous personalities as Dave Allen, Vincent Price and Susannah York.

She dabbles in horoscopes too and that's why, despite Telecom being of the star sign Cancer ... seeing our birth date is July 1st ... Jan believes we're more an Aries-type.

Telecom Coconut Scramble

1½ cups desiccated coconut

3 cups boiling water (or use coconut milk in cans or block coconut cream)

¼ cup sugar

1 tsp vanilla

Soak coconut in boiling water with sugar. When cold, stir well, squashing to get out the flavour. For extra flavour "dial" scramble on a blender or food processor. Strain through a clean cloth.

As any bright lineman, engineer or Telecom-type person knows, coconut cream is now available

ready "squelched" for you. Save yourself all the above effort by buying cans of coconut milk or blocks of coconut cream.

I reckon the cream is best of all. Just "congest" by slurping 3 cups boiling water over the block and leave for a few minutes or till melted, giving it a blast in the blender or processor if you're impatient. Add sugar then away you go.

Tip into a metal container and freeze, mashing with a fork a few times to break up the ice particles. Serve in scoops in glasses

with fresh fruit, bananas or pawpaw, or canned tropical fruit such as lychees or mango slices.

I've found I get really stunning water ice by plonking the coconut milk in the freezer overnight, then when it's solid, cutting into cubes and scrambling up in the blender or food processor a few bits at a time. Sometimes I need to add a slurp of water or fruit juice to help it along. Re-freeze, and that's it — so easy, and really creamy and smooth.

Jan Oldham.

TELECOM'S QUID PRO QUO WITH WA POLICE



The "long arm of the law" has reached out and has shaken hands with Telecom W.A. in what is believed to be a unique venture.

The Western Australian Police Department has produced an audio-visual package for primary schools on bicycle safety, in co-operation with Telecom.

The sequence which will be shown to children by Police Lecturing Staff who tour the State, was produced

as an experiment by Constable Bob Kirby.

Bob was faced with limited resources and found himself filling the roles of producer, director, writer and narrator. Happy with most of those roles, Bob was not all that pleased about either writing for children or his rather broad English accent for the narration.

Sergeant Les McMillan, the Officer-in-Charge of Police Lecturing, remembered his days of liaising with a journalist and former children's television host by the name of Ian Teasdale, now Telecom's

Media Liaison Officer in Perth.

Ian agreed to sub-edit the script in a style that children would easily understand and to narrate it.

In lieu of the customary payment and slide crediting the narrator it was agreed to credit Telecom so that now primary school children throughout Western Australia will see that Telecom has moved into yet another area of community involvement.

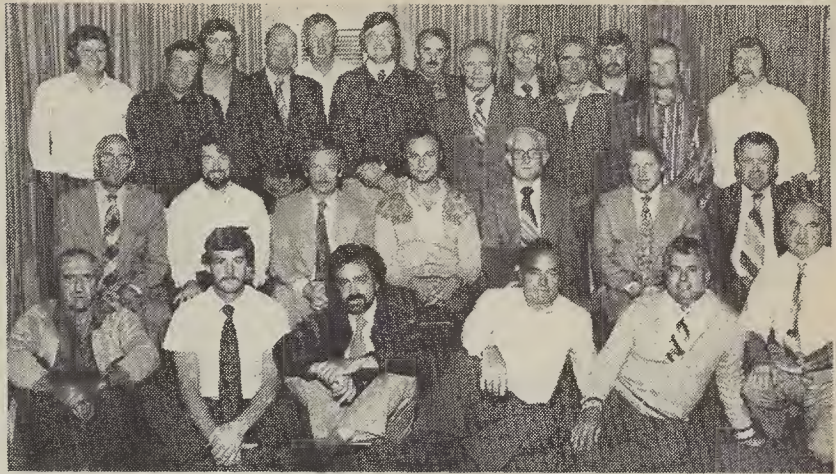
Photo shows left Const. Kirby with Sgt. Les McMillan and his children Mark (8) and Patricia (13).

Study = + dollars

The Victorian Special Class Electrical Fitter and Mechanic's (E.F. & M.) exam is conducted annually, and is designed to qualify those electrical tradesmen who have the necessary theoretical and practical skills for advancement or transfer to positions of Senior or Foreman E.F. & M. Success at this examination also extends the E.F.&M.'s salary range as follows:

<u>Annual</u>	<u>Fortnight</u>	
\$10,149	\$389.10	E. F. & M.
\$10,323	\$395.77	
\$10,487	\$402.06	
<hr/>	<hr/>	BARRIER EXAM
\$10,939	\$419.39	E. F. & M.
\$11,121	\$426.36	
\$11,304	\$433.38	
		SPECIAL CLASS

The exam is arranged and conducted by State Buildings Branch Training and Staff Development Officer Jim Dunlop and is carried out in two 1½ hour sections: Section One - Electronics; Section Two - Choice of (i) Lifts OR (ii) Airconditioning OR (iii) Telepower Equipment.



Managers and senior supervisors who attended the "positive action now" seminar.

ACCIDENT ACTION

Concerned at the high number of reported lost time accidents, Country Primary Works Section Victoria has begun a positive program to foster greater emphasis on accident prevention.

Realising that highly visible management

leadership and support were key elements, arrangements were made with the Accident Prevention Section Victoria for a one day seminar to be structured for a group of 25 managers and senior level supervisors from the Section.

A similar program, with a slightly different emphasis, will later be taken into the field for presentation to project supervisors and staff.

The seminar was attended by the Supervising Engineer, all engineers and senior lines officers. Mr B. Howard, Superintending Engineer, Construction Branch opened proceedings and became an active participant in syndicate type exercises, indicating commitment on the part of Branch Management.

Mr W. Worley, Chief Accident Prevention Officer - Victoria addressed the group on some of the legal obligations incumbent on an employer for the safety and well-being of staff and employees.

Mr B. Sutton, an engineer currently attending the post-graduate Occupational Hazard Management course at the Ballarat College of Ad-

vanced Education spoke of new developments in accident investigation, and of the need to engineer out hazards.

The group was then led through some exercises aimed at laying to rest some of the myths at present surrounding proper accident investigation and follow up by Mr G. Walshe, Accident Prevention Officer, Victoria, who stressed the need for close examination of all of the elements involved in an accident.

Comments following the seminar indicated that it had been well received by those taking part.

Ah, fame!

Remember the hilarious ideas of the sixth grade pupils at Nunawading South (Vic) Primary School for combatting public telephone vandals (TELECOM No. 48, December 1979)?

Well, the kids' thoughts obviously tickled the fancy of the Swedes who summarised the article in *Tele Journalen*, a customer information magazine issued monthly by the Stockholm telecommunications system. It quoted the suggestions of Mark James and Andrew Cox.

Our Rapellin' Riflers

From Telecom to jumping out of helicopters is something of a drastic change in lifestyle, but it is one that these five Telecom W.A. workers do twice a year.

They are members of the 28th Independent Rifle Company, a special Army Reserve Unit that draws its

members from shift workers and remote areas of Western Australia.

Unable to attend normal weekly parades, they come together twice a year for two weeks at a time of concentrated military training.

In camp recently, their training included live firing of mortars, patrolling, field

exercises and rapelling which in this case involves leaping from helicopters on ropes while the 'copter hovers some 20 metres above the ground.

A large number of Telecom personnel are members of the Unit which has been nicknamed the "Bush Rifles."



Left: Telecom men of the "Bush Rifles" swing like spiders on their webs, 20 metres above ground. Above: Back on terra firma Lineman Paul Whittaker, Technicians Gil Langley, John Penn and Ocky Thomas and Mechanical Fitter Laurie Henderson.

Trevor Allen has learned to do with one hand what the rest of us take for granted using two. He is a cleaner at Telecom's Waverley Exchange and a rising jazz talent with the Sydney group, Graeme Bell All Stars.

SINGLEHANDED — HE MEETS AND BEATS THE WORLD

Trevor, aged 34, was severely handicapped as a young boy with a speech difficulty at birth and a paralysed left side after a fall at 5½ years.

Since then he has undergone therapy and a series of major operations, first in his homeland of New Zealand and later in Australia, to enable him to speak and to improve the use of his left arm and leg.

His career as a cleaner began at a rehabilitation centre run by the Disabled Servicemens' League in Auckland where he was enrolled as an apprentice French polisher.

In Australia he worked as a contract cleaner for private companies and public hospitals. He was a male aid and cleaner for a while at the Spastic Centre in New South Wales at Allamblie Heights.

Trevor was offered the job with Telecom through a CES office. "I taught myself to use the floor polishing machine at the exchange," he said. "I feel I've really achieved something in the time I have been here. It's a miracle."

Trevor said the

main difficulty as a one armed cleaner was maintaining balance while using a polishing machine and in carrying cleaning equipment.

"I think I could safely say my one hand is just as fast as another cleaner's two," he said with a wry grin.

Trevor's interest in music started when a cousin formed an All Time Dance Band in New Zealand. Trevor wanted to play and was given his first set of musical "bones".

He joined another band before coming to Australia and gained fourth in an appearance on the TV talent quest, New Faces.

Trevor graduated to the Red Garter Jazz Band at the Texas Tavern and later Mike Hallum's "Hot Six" at the Sydney Hilton Marble Bar. He first met Graeme Bell at the Imperial Hotel, Paddington in December, 1978.

Bell included Trevor in his weekend show on the Sydney club circuit, entitled "A night in New Orleans", with the Telecom cleaner billed as "Mr Bones".

"Trevor plays the bones with his one good hand exceptionally well," said Bell.

Last year Trevor established a world record by playing his "bones" non-stop for 80 hours at Bondi Plaza.

This month he will appear on radio and television in New Zealand to raise funds for the Auckland Branch of the New Zealand Crippled Children Society, where he was first treated.

In June Trevor will attempt at Ryde in Sydney to better his own record for playing the "bones". This time he hopes to be



Trevor Allen at work in Waverley (NSW) Telephone Exchange.

clicking his way through 85 to 90 hours in aid of the disabled in Australia.

Trevor has made tapes of his performances to send to recording companies in the US. He is also preparing for release

in Australia soon a series of LPs.

His musical confidence has increased so much in the past year that he has formed his own band, "Mr Bones and the Skeletons", which is managed by Bell.

Untimely death of popular Buildings man

The sudden death at the age of 47 of Field Officer, Vic. Buildings Branch Kevin F. Cax was marked by deep regret throughout the branch and in wider Telecom Australia and building and construction circles.

Latterly in his 34 years service, he had travelled widely through middle eastern Victoria and the Mornington Peninsula supervising building work and gaining the respect and admiration of all with whom he came in contact.

His friends at Buildings Branch told Telecom that Kevin had the ability to organise and direct contractors to perform quite remarkable tasks in record breaking time, and he did it so often and so easily that his name became a legend with all those confronted with building tasks to be completed urgently or in extraordinary circumstances.

His tireless efforts over the years in making himself available and providing a thoroughly reliable afterhours service in emergencies often drew praise from top management.

DAY OUT FOR MUMS & BUBS



Just recently some 18 Telecom W.A. Mums and their 23 babies came together for a "Mothers and Babies" outing. The Mums were drawn from the Western Australian Telecom Sales former staff who have left to start or enlarge their families.

They spent the day enjoying a picnic lunch in the sunshine at Perth's Ascot Water Play Ground.

As we said, on the day there were 18 Mums and 23 babies with one of those Mums being Julie Pages-Oliver. If only the girls had waited a few days there would have been 24 babies. Congratulations Julie on the birth of Brook.

Above: A group of happy mothers and their beautiful children from left, Mandy Annear, Sue Laundon, Mary Lommers and Linda Davis.