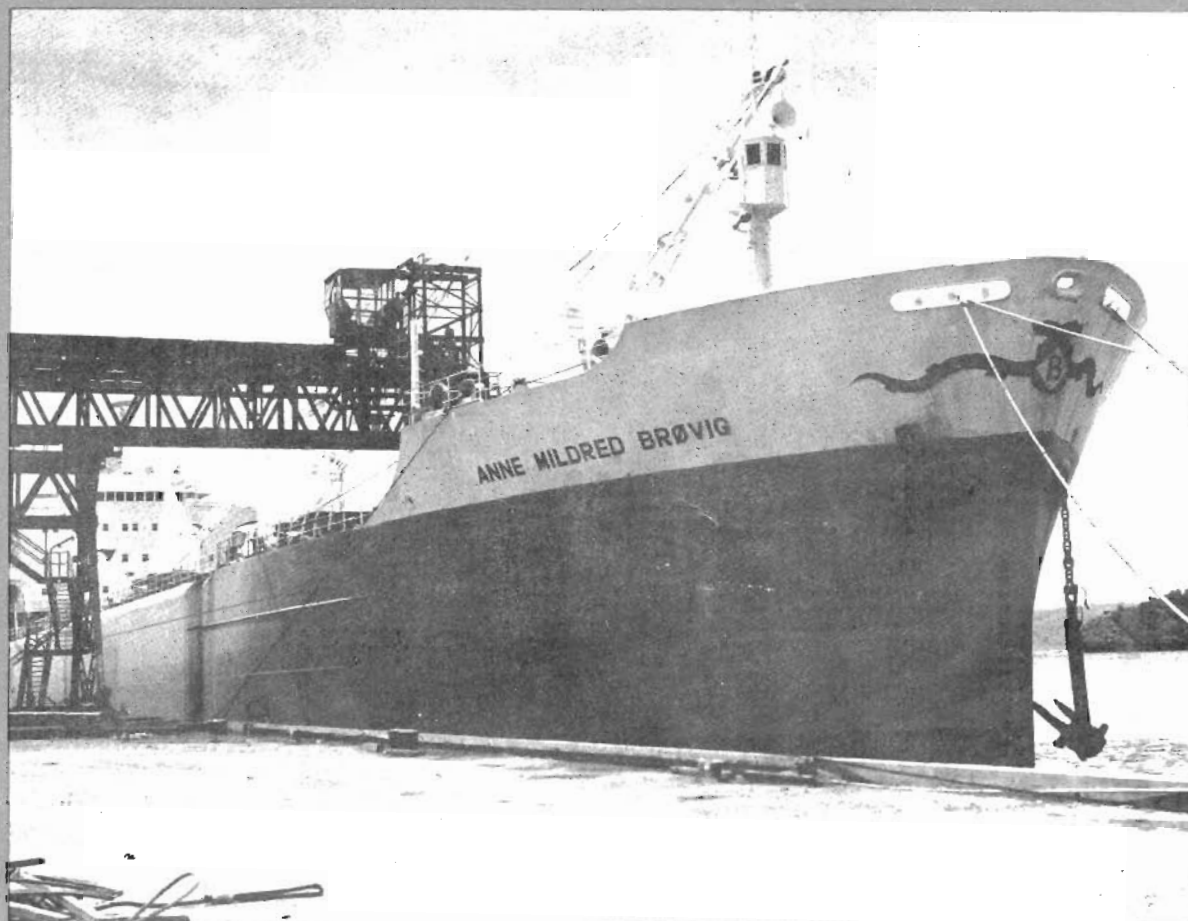


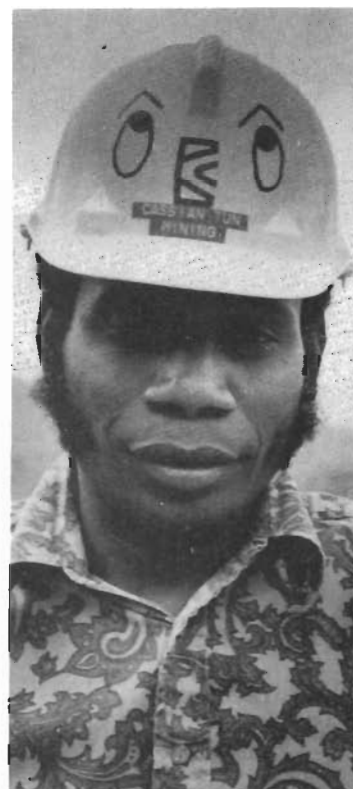
Bougainville Copper Concentrates

VOLUME TWO / NUMBER SEVEN APRIL, 1972.

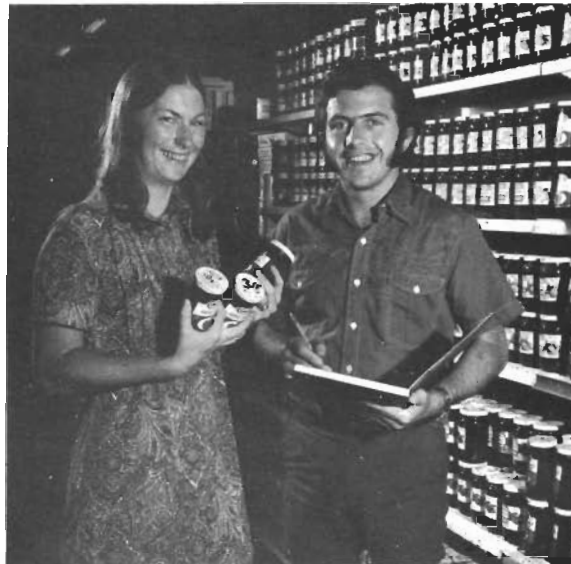
April 1,
1972:
A big day

WE OFFICIALLY BEGAN COMMERCIAL PRODUCTION ON APRIL 1. ON THAT DAY THE NORWEGIAN ORE CARRIER "ANN MILDRED BROVIG" WAS LOADING OUR FIRST COMMERCIAL SHIPMENT OF COPPER CONCENTRATES PRODUCED TO MEET LONG TERM CONTRACTUAL REQUIREMENTS. THE "ANN MILDRED BROVIG" HAS A CAPACITY OF 21,000 TONS AND IS HEADED FOR WEST GERMANY AND SPAIN. SHE WAS LOADED IN THREE DAYS. OUR PRESENT CONTRACTS CALL FOR DELIVERY OF SOME 2 MILLION TONS OF CONCENTRATES TO JAPAN, WEST GERMANY AND SPAIN OVER 15 YEARS.





Top left, at the training centre opening, Mr. and Mrs. Geoff Lill (project co-ordinator) talk to power station apprentice Kaditum Sioni; Below, Mr. and Mrs. Col Bishop (assistant general manager) talk to Pelioka Pelioka; and Mr. and Mrs. Mike Blackwell (assistant pit superintendent) meet Camillus Tetana. Top, who's in the iron masks see back page! Far left Hosea Irima, Panguna trade store salesman; Anthony Crusoe, employment clerk and Cassian Tur, mining clerk. Above, Isaac Sapak, storeman and Urene Buza, training clerk.



Top left, Peter Alias, first headmaster of Arawa High School. He is married with two children and lives in Arawa; Top, manager of Panguna trades store, Russell Newman, with sales assistant, Sue Sutherland; Top right, John Marava, app. motor mechanic. Above, a group of Nagovisi visitors are met by village relations officer Ian Glanville; in the training section, Martina Rear, stenographer, and Maurie Pears, training manager; left, secretaries in the concentrator, Margaret Wright and Dabita Ibana; right, senior analyst James Tweedie.





Left, our cricket team; above, B. Johnston starts to run; below, L. Berry strikes out.



ALL THE EASTER SPORT

A BCP CRICKET team visited Rabaul over Easter and played a representative team at the Kokopo Sports Club ground. They scored a great win and really shocked the complacent locals.

BCP began rather shakely after winning the toss. Both openers were back in the pavilion with only 27 runs scored. A very good third wicket partnership of 102 runs between Stan Higgs and Lyndon Berry put BCP in a very strong position 3(129). However both Clarke and Beachamp went quietly and the score slumped to 5/131. Stan Higgs was still batting attractively and when joined by Neil Stewart the score was pushed along. When Stan was caught off a mis-hit for a very valuable knock of 72 Ern Mitchell joined Stewart and added another valuable 29 runs. The remaining batsmen didn't last long and the BCP innings closed at 196.

Rabaul opened their innings late on Saturday and disaster struck immediately. Stan Anderson bowled Brian Turner (Top Batsman for the Year) in his first over and at stumps Rabaul was 1 for 3. The fast bowlers continued their good work on Sunday and Rabaul were quickly 4/47. The slow bowlers were brought into the attack and quickly had Rabaul struggling. All bowlers stuck to their task and eventually Rabaul were all out for 131.

Congratulations to John Beachamp and his team. This win will certainly surprise a few territory teams no doubt.

Scores:

BCP		RABAUL	
L. Berry	54	Total	131
W. Johnson	3	BCP Bowling	
G. Hurrell	9	S. Anderson	2/19
S. Higgs	72	M. Edmeades	1/32
C. Clarke	0	L. Berry	1/26
J. Beachamp	0	J. Beachamp	4/28
N. Stewart	23	E. Mitchell	1/11
E. Mitchell	15	R. Jeffrey	1/11
S. Anderson	1		
R. Jeffrey	4		
M. Edmeades	1 (N.O.)		
Sundaries	14		
Total	196		

Eight SOCCER teams have been nominated for a competition and a draw has been made up. There is a temporary delay while our oval is cleaned up and made playable.

Six AUSTRALIAN RULES teams have been nominated and once the ground is playable a competition will start.

Eight RUGBY teams have nominated but unfortunately we have a mixture of Union and League. To enable a decent competition to take place I think all teams should decide on one code. We have a chance to do this now as games are delayed through the ground being unplayable. However, all players are advised to keep training as they will be playing competition games very shortly.

To enable us to participate in games against other territory teams we should affiliate with the Territory Association of that code. I hope a small committee can be formed to not only administer the code here but to think ahead and eventually organise representative games with other territory centres. Any person interested, please contact me to enable these executive committees to be formed. The Cricket Club is a good example of what can be done with a solid committee.

Discussions with the Kieta Sports Club indicate that this club is also endeavouring to sponsor all codes of sport in Kieta and they will enter into any competition we run and will also back us in forming an association for the various sports in Bougainville. However, at present the teams they can raise are limited but eventually it is anticipated all codes will be represented.

Terry Barr has our BOXERS jumping out of their skins but at the moment we haven't very much opposition. The club is going to affiliate with the New Britain Boxing Association (Bougainville is a part of their territory at the moment). This way we will know what is going on in the territory as our boys missed the Territory championship over Easter, and from my observations we would have won or gone very close in 3 divisions (Phillip Sapek, Paul Gallo, Jack Luff). I notice that Vic Caruana is back from the South and has now joined BCP. Vic used to control all the boxing at Camp 6 up until and including the 1971

championships. I don't suppose he will be idle for long and this will give boxing a lift.

A BASKETBALL association is being organised with the Territory Basketball Association. A committee has been formed but it is essential that two members are nominated from each team. Difficulty is being experienced in obtaining these representatives. If we are to eventually have representative teams playing elsewhere in the territory a strong executive committee is a MUST.

Our competition got off to a very wet start and the first round was washed out. However, these games will be played as soon as possible and the draw is to be followed as promulgated. Transport has been arranged for one of the competitive games to take place at Camp 10 and Camp 2 on alternate weeks. Teams to play at these centres will be advised and the bus will leave from the sports store at 7.00 p.m. on Wednesday evenings.

BCP Apprentice Football Club teams went to Buka on Easter week-end and played four games of soccer, Aussie rules and basketball at Hutjena. The students at Hutjena proved too good for our teams in soccer. In Aussie rules and basketball the Apprentice teams thrashed Hutjena in return.

Our week-end at Buka was a very enjoyable one and we wish to send our thanks to the boys at Hutjena and their headmaster Mr. Murray and also to all of those who are concerned for this trip.

- PETER POKAMBU

A number of Panguna and Arawa people spent a delightful Easter week-end at Buka. They included Eamon & Olga McCormack, Mike & Ann Blackwell, John & Kay Lambourne, Ern & Frances Demmler, Bob & Shirley Fisher and Hal George.

For most people, after many months of not seeing or playing on an established golf course, the Buka Passage Golf Club was a joy to behold. As Eamon McCormack put it 'as long as it doesn't snow we'll be playing golf'. It neither snowed nor rained (very much) and the golfers had a great week-end.

The tennis players also enjoyed the conviviality of good company and the satisfaction of exciting games with competent tennis players from Kieta and Buka as well. Unfortunately, sufficient rain fell on Sunday afternoon that the tennis tournament was abandoned but the hardy golfers were not deterred and completed the competition.

Eamon McCormack exhibited his superiority in all aspects of golf. His action was a delight to watch and although not having played for 6 months or so, had very little trouble in winning the major trophy for the 54 holes. Other local trophy winners included:

Most improved result over the two days - Bob Fisher.
Nearest the Pin - 3 difficult holes - Frances Demmler

Ern Demmler
Hal George

Runner-up - second day's competition - Hal George
Hardest worker - John Lambourne

Hal George also won the Stamina Medal - he played 90 holes over the four days and was looking for a final game on Monday afternoon but exhaustion and sunburn had taken their toll.

The hospitality afforded visitors was most appreciated and a week-end 'away from it all' at Buka is thoroughly recommended.

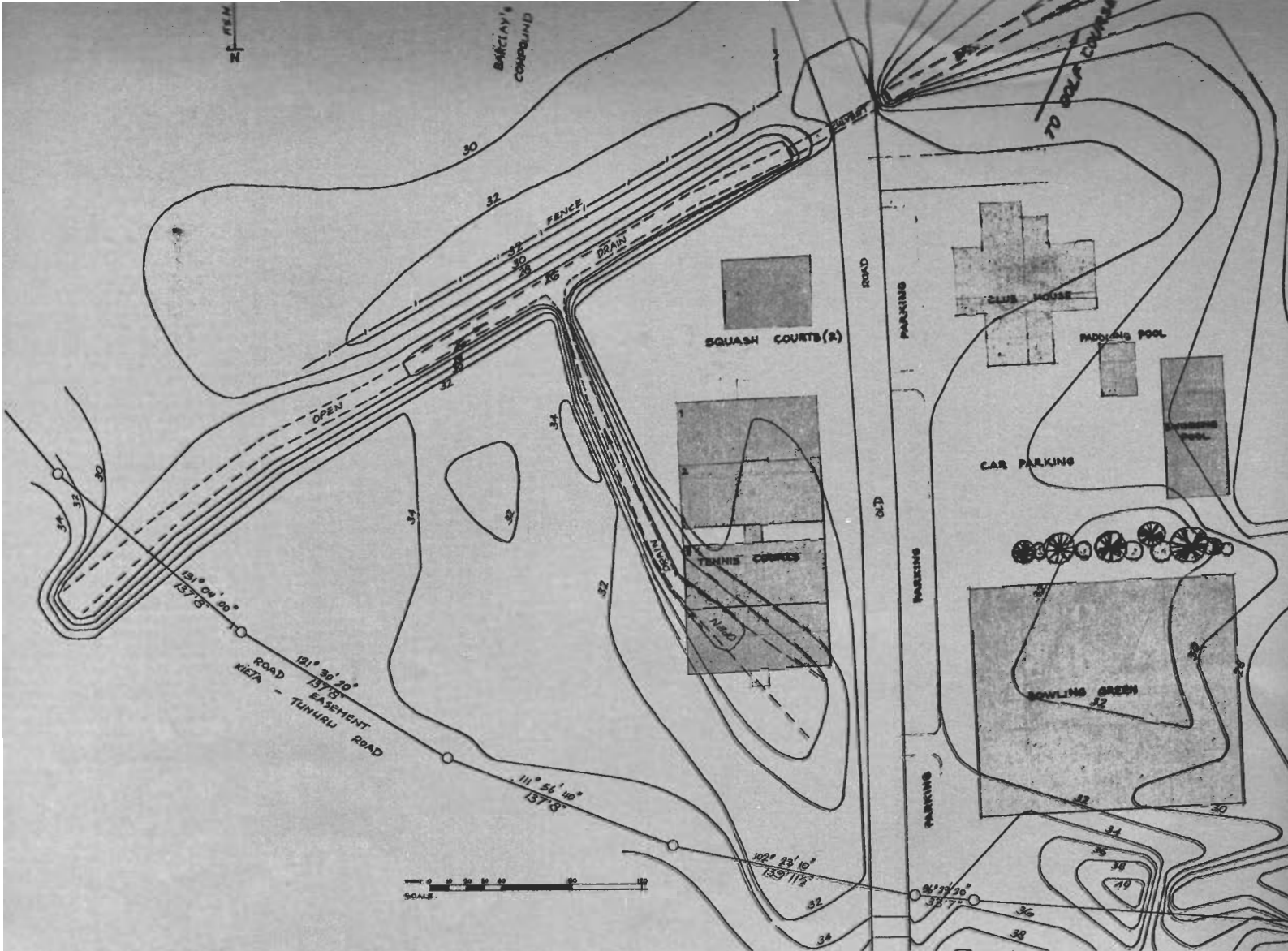


John Lambourne tees off. Top, tennis player in action.



Bottom, opening bats, B. Johnston and L. Berry. Above, on the green, E. Demmler and R. Speddie of Buka.





Arawa Country Club

The committee of the Arawa Country Club has now been meeting for approximately four months. Plans are well in hand for the erection of an air-conditioned club house and attached changing and locker rooms.

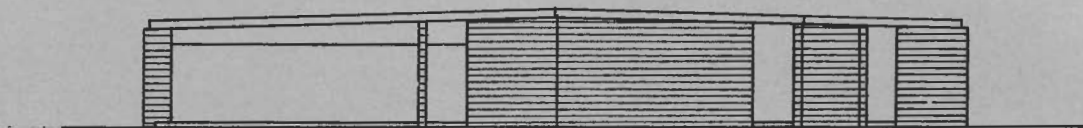
It is proposed that the following sporting facilities will be accommodated on the club land:- 9 hole golf course, tennis courts, bowling green, squash courts, swimming pool and clay target gun club. Membership is open to all residents of Bougainville on a family basis and application forms may be obtained from C. Newman, B43, G. Causon, B37, or I. Baird, Port offices.

It is proposed that foundation membership will be closed when construction commences within the next two months and that subsequently an entrance fee will be imposed on new members. You are invited to apply now for membership of the first club in Papua New Guinea to encourage multi-racial membership by the application of a sliding scale of fees based on income.

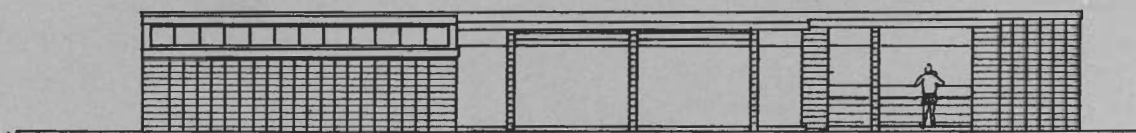
Above, a plan of the facilities of the Country Club. Top right, artists impression of the club house. Opposite bottom, proposed floor plan of the permanent club house.



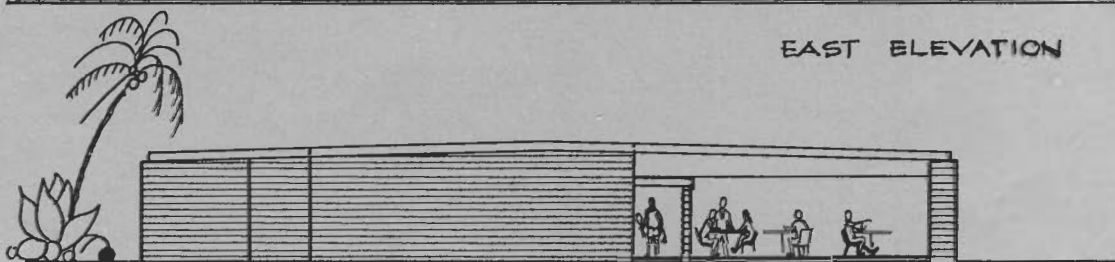
WEST ELEVATION



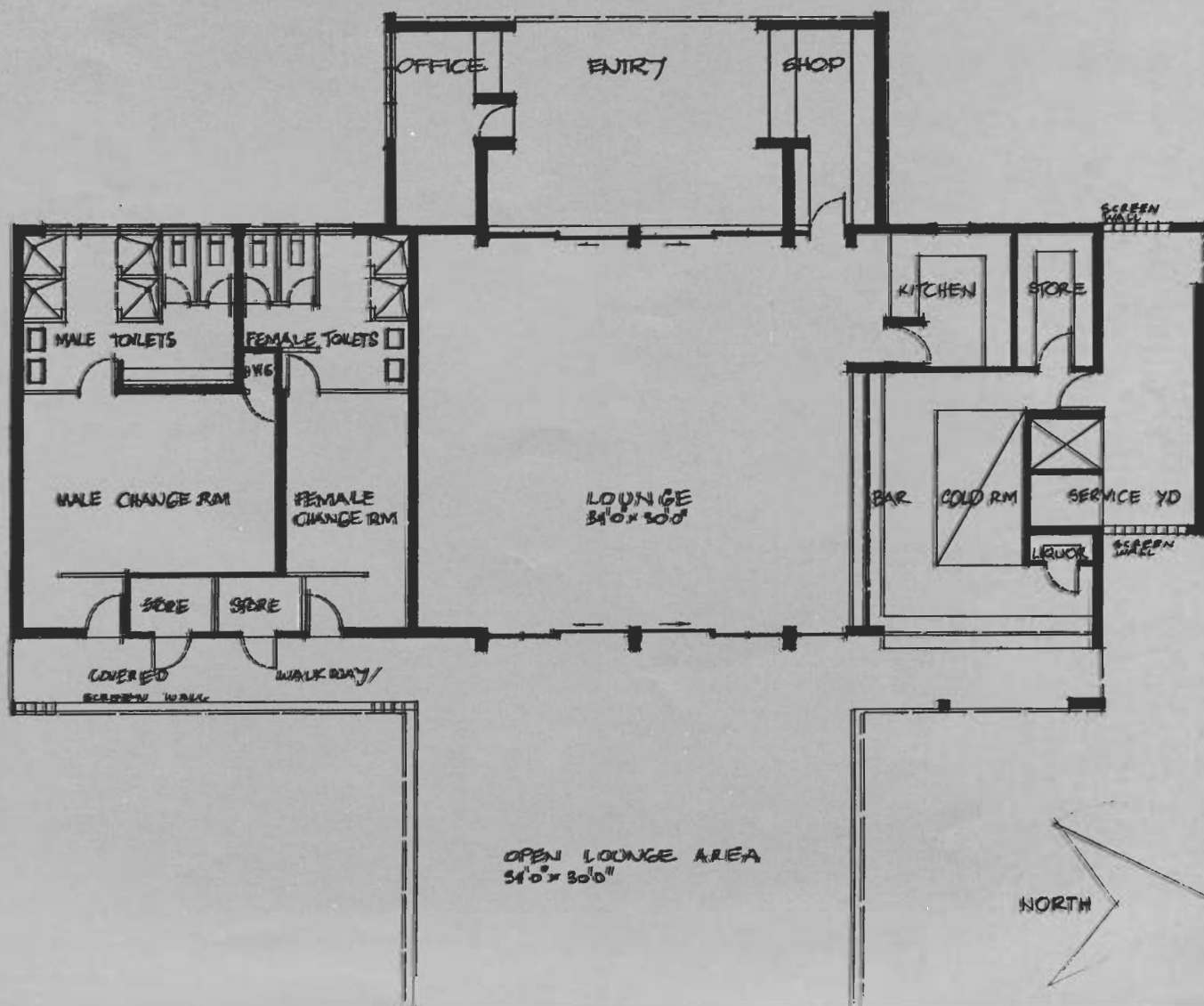
NORTH ELEVATION



EAST ELEVATION



SOUTH ELEVATION



Today's chemist

Concentrator news

Today the chemist relies very largely on instrumental methods for the analytical determinations required. The use of these modern methods allows considerable reduction in space and manpower requirements. Nevertheless, a staff of 68 and a laboratory area of some 10,000 square feet are required to provide the various analytical requirements of the project.

The old or "classical" methods of chemical analysis (synonymous with boiling test tubes emitting copious fumes) are still used, both to check that instrumental techniques are correctly calibrated and also to provide very accurate results, when these are required. However, the lengthy procedures generally involved restricts the number of samples which can be handled.

The electrolytic determination of copper, a classical method developed in 1867, is the most accurate of three methods used to determine the percentage of copper in our concentrate product. The method is used for the very important job of providing copper percentages from shipment concentrate.

Fire assaying is another classical method used for the analysis of shipment samples. Using techniques developed during the 14th century, values are established for the elements gold and silver.

The two main instrumental methods used are atomic absorption spectrometry and x-ray spectrometry. The former is a relative newcomer to the field being first developed in Australia in the 1950's. This method is used to determine a wide range of elements, being particularly useful at low concentration levels. After preparing the sample in a liquid form it requires only a few seconds to measure the percentage of the element of interest.

Perhaps the most versatile method is that of x-ray spectrometry. Capable of providing fast and accurate results, x-ray techniques are used to monitor production of concentrate in the plant on a routine basis.



Left, lab assistant Patimus Lakata carries out copper shipment analysis; above, doing fire assays are James Biro, analyst, and Moses Mose, lab. app. Top, Peter Kamo, analyst, operating an X-Ray spectrometer and Paul Ume, lab. ass. on an absorption spectrophotometer.



PANGUNA

Sat. & Mon. Apr. 22 & 24	The Odd Couple	Jack Lemmon Walter Mathau
Sun. & Tues. Apr. 23 & 25	Zachariah (First Electric Western)	John Rubenstein and Pop Groups
Thurs. & Fri. Apr. 27 & 28	Sports Night 1971 NSW Rugby League Grand Final	Sth. Sydney vs St. George
	TV Ringside (Full fight)	HSV 7 Melbourne.
Sat. & Mon. Apr. 29 & May 1	Tom Jones "Best Film of the Year"	Albert Finney Susannah York
Sun. & Tues. Apr. 30 & May 2	Carry on Henry	"Carry On" Gang
Thurs. & Fri. May 4 & 5	Story On Page One	Rita Hayworth Anthony Franciosa
Sat. & Mon. May 6 & 8	On a Clear Day	Barbra Streisand

ARAWA

Wednesday April 20	Carry On Loving	"Carry On" Gang
Friday April 28	The Last Valley	Michael Caine Omar Sharif
Sunday April 30	Going Down the Road	Doug McGrath Paul Bradley
Wednesday May 3	Journey to the Centre of the Earth	Pat Boone James Mason
Friday May 5	The Odd Couple	Jack Lemmon Walter Mathau
Sunday May 7	Zachariah	John Rubenstein
Wednesday May 10	Sports Night 1971 NSW Rugby League Grand Final	St. George vs Sth. Sydney
	TV Ringside (Full fight)	HSV 7 Melbourne
Friday May 12	Tom Jones	Albert Finney Susannah York

FOR SALE

Bronze castings for yacht. Any reasonable offer. Clarry Bradley 5-181 or Loloho 1640.

1965 Toyota Crown Station Wagon. \$700. Laurel Eden, 5-289 or call at House 31, Townsite.

Amplifier tuner Sansui 600L. As new, what offers. Ron Bibby, 5-373.

360 Suzuki 4WD. Eight months old. \$700 o.n.o. D. B. Hazel 5-273.

Whoever stole my Olympus 35SP camera on April 1 from car number 1.283 will be sorry to hear he missed the lens cover. The camera's worth \$120; he can have the lens cover for \$110. Simon Feely 5-255.

WANTED

20/30 lb anchor. Clarry Bradley 5-181 or Lol. 1640.

One pair of stereo headphones. Jan Amor 5-291.

PETROL IN ARAWA

Navitu Enterprises have opened their temporary petrol pump facility in Arawa town. It is open seven days a week from 6 a.m. to 6 p.m. It is hoped that within a month it will open a take-away food, cold drinks and cigarettes section. Tenders for building the permanent facilities closed on the tenth of March and it's hoped to have them operational by August.

NEW BABIES

A girl, 5½lbs, at Panguna Hospital for Mary and Thomas Toarats, section supervisor at Panguna tradestore. She's called Melanie. A son, 7lb 10oz, for Ila and Vali Walo, central warehouse clerk, at Panguna Hospital. He's called Iga. John Langman (he's on leave) has been presented with a daughter. A son for Karen and Bruno Gumela, engineering, Loloho, at Panguna Hospital. A daughter for Mr. & Mrs. Salias, concentrator, at Panguna Hospital. A daughter, 10lbs, for Alison and Don Morley, civil services engineer, at Panguna Hospital. She's Susan Tracy.

CONCENTRATES IS EDITED BY JOHN ECCLES, JOHN WAKARIA AND JOHN PIPPIN. PHOTOGRAPHY, BRIAN WENDT. PHONE 5-255

RALPH BELL CRUSADE

Thousands of people of all races and denominations attended the Ralph Bell Crusade, headed by Canadian negro evangelist, the Rev. Ralph Bell, in Arawa and Panguna over Easter.

More than 1,000 crowded the Morobe Constructions shed in Arawa during the last meeting on April 4. The Rev. Bell pointed out that every christian should live with Christ at all times. He said if hatred existed in areas where there were large communities of all races living together, this would destroy the christian way of life.

He added that too much drinking was another thing that brought hardship among communities and families. Drinkers should control their drinking and not let drink boss them.

- JOHN PIPPIN

BROKEN GLASS CAN CRIPPLE

A large percentage of accident cases being treated are caused by cutting and piercing on broken glass. Children at play are the chief victims.

These injuries can be serious. Sharp edges can cause severed arteries, nerves and tendons. Sharp points may cause puncture wounds which may result in serious infection. Jagged edges can cause lacerations with risk of infection.

Beware of these dangers: Bottles left lying about at beaches, recreation and picnic areas; on pavements and in gutters; stored carelessly or left lying about in the home or in the garden or shed. Glass doors which are not clearly visible.

Useful safety hints: Wear sandals, thongs or shoes; provide a carrier for bottles; place non-returnable bottles in the dustbin. Do not keep medicine bottles. Pour left-over contents down the sink, wash them and place in the dustbin. Store all bottles out of the reach of toddlers. Sweep up broken glass - never pick up. Wrap in thick newspaper and place in the dustbin. Never put detergents, disinfectants, petrol or kerosine in bottles. These can be mistaken for drinks and swallowed by a thirsty child.

Panguna Rovers recently cleaned Loloho Beach of broken bottles. However it's getting littered again!

Kieta from the air

Kieta has just as many pollution problems as Camp 6. But from the air it still looks a beautiful spot.

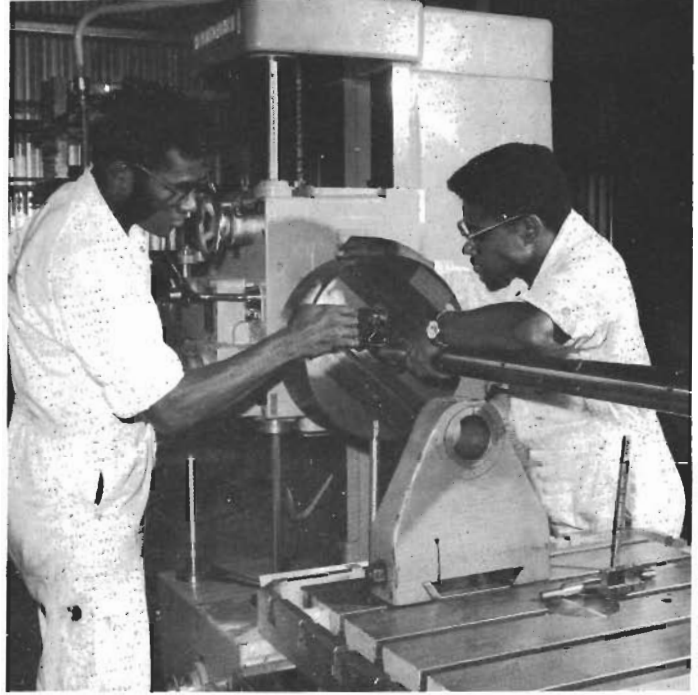


The fitting and machining section is dealt with in this the third of our pictorial coverage of the training centre. Here apprentices are taught to manufacture machine parts with close tolerances. At the moment there are 24 machinists and 21 fitters in the section.

Training section (part three)

Below, Titus Pasuk prepares to drill and machine a toolmaking clamp as part of his training in mechanical fitting. Middle, inspection of surface texture is often necessary. Here Camillus Kokora uses a microscope to inspect machining samples. Bottom, Joseph Ken offers a broad smile while measuring a diameter on a 16 inch swing engine lathe.

Right, correct techniques in setting up horizontal moving machines are taught to all who pass through this section. Elijah Vue (left) can be seen carrying out the operation with Pelioka Pelioka. Middle right, Camillus Tetana explains the functions of a tool and cutter grinding machine to visitors, Mr. & Mrs. Sam Saunders. Bottom right, Camillus Tetana again, this time being taught the intricacies of a vernier height gauge by Geoff Barnes. With him is Joseph Ken.





By Benedict Kavo
community relations clerk

A man who wouldn't die

About 20 years ago a man by the name of Foinieu was living in Rarai village in the Mekeo area about 60 miles from Port Moresby. He was a good man. He got married and had two children and was very kind to everybody. But he never obeyed the chief of his village.

All the people of that village did the chief's work and obeyed him, except Foinieu. Instead he went to his garden or went swimming or hunted with his big bush knife, axe and many spears.

The chief was very cross about it and threatened to make him leave the village. "He never does my work and he never obeys me, so I don't want to look after him in my village," he said. One day the chief reported Foinieu to the big sorcerer chief at Eboa village. He demanded seven sorcerers to make Foinieu die.

The sorcerers arrived at Rarai village and the chief showed them Foinieu's gardens and his house. The chief told them to follow him round the gardens. "When you find him, that's it; do something to him and make him dead".

The seven sorcerers spent night and day following Foinieu round his gardens. They lost many chances to kill him because all the time he carried his big bush knife, axe and many spears. They felt their sorcerers' stones were not powerful enough against his weapons. Six months went by and nothing happened.

The Rarai chief was fed up with this. He sent for another sorcerer from Aipeana village to join the other seven in Foinieu's garden. This man had a very powerful stone. One morning all eight went out and waited for Foinieu near the road. Foinieu had his big bush knife, his axe and his many spears but the sorcerer did not care. The sorcerer went out and stood in the middle of the road and called out, "Hey, where are you going?". Foinieu looked up and felt that sorcerer's power and he fell down half dead.

The sorcerers left him and told the chief that their work was done. Foinieu was on the ground for an hour. Then he got up and ran home. As he got close to the village a very big snake, called by the magic stone, jumped out and bit him five times and he fell down and died.

After that the people came out and buried him. The chief was very happy and he paid 50 Birds of Paradise feathers to each of those sorcerers and they went home.

WEATHER TRENDS

Weather trends for the first two months of 1972 followed those of the previous year - less rain than average in Panguna and more than average in Arawa. But in March the rain in Panguna made up for lost time.

January statistics give Arawa rainfall at 13.48 inches (average 9.09) and Panguna at 17.70 (average 19). Panguna's heaviest daily rainfall was 5.12 while Arawa received 1.73 in a day.

Maximum and minimum temperatures in Panguna were 84 and 62.1 degrees respectively and in Arawa, 92 and 70 degrees. Average daily relative humidity at 3 p.m. was 84% in Panguna and 71.3 in Arawa.

February was slightly drier in Panguna and Arawa. Panguna received 14.68 inches (average 19.21) while Arawa received 13 inches (average 11.60). Heaviest rain in one day in Panguna was 3.72 inches and in Arawa, 1.86 inches.

Maximum and minimum temperatures in Panguna were 83.9 and 61.1 degrees and in Arawa 90 and 71 degrees. Average daily humidity at 3 p.m. was 78.3% in Panguna and 67.6 in Arawa.

Panguna's March rainfall (up to 9 a.m. March 30) was 22.97 inches - already above the March average of 22.53 and with two days of the month left.

JABA-SIKOREVA ROAD

Work is progressing on the Jaba to Sikoreva road which the company is building. Rain has caused interruptions to work but by early April some 3,000 ft had been cleared, cauderoyed and gravelled - as far as the foot of the main ridge. About three-quarters of the road still has to be built. The finished four mile road will link up roads already constructed linking Buin with Kieta. Photo shows dozers in action just before the main ridge.



