

paradise

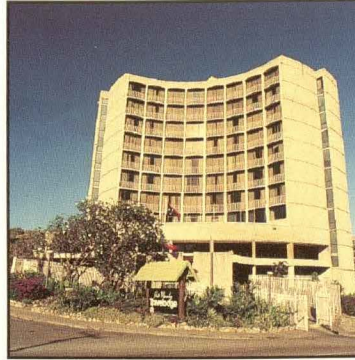
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Cover: Lesser Wanderer or Monarch Butterfly (*Danaus chrysippus*) emerging from the pupa
Photograph by Eric Lindgren



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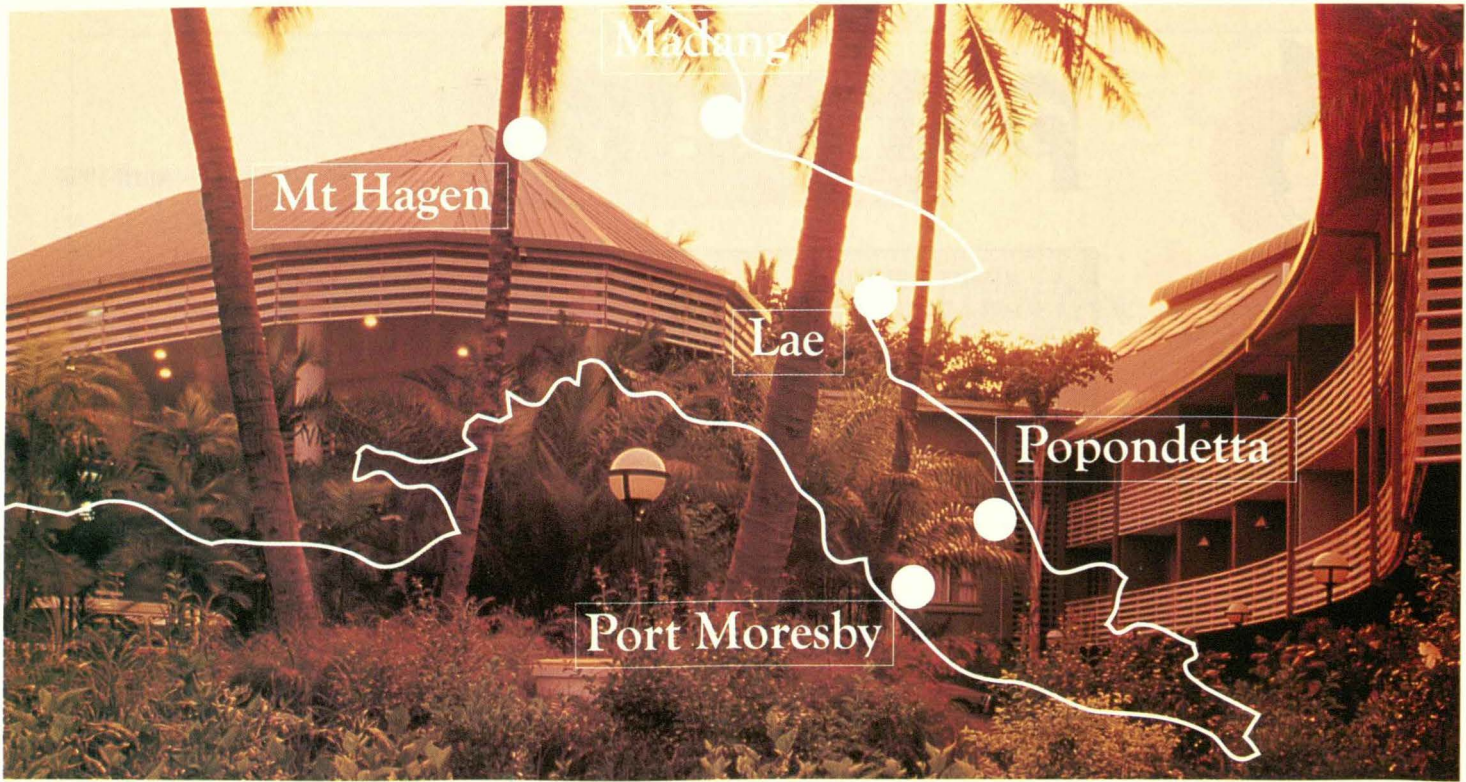
In November this year, Air Niugini will celebrate its 25th year of service. Our silver jubilee will be a creditable achievement in Papua New Guinea's aviation industry. We will feature more of our 25th anniversary in issues of Paradise later in the year.

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Lae - Melanesian Hotel

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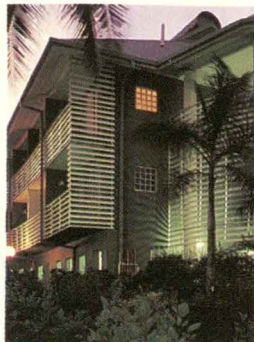
Lae - Huon Gulf

The Huon Gulf Lodge is situated adjacent to the Botanical Gardens and offers a level of comfort and true Melanesian friendliness not usually found in this

motel-style property. The accommodation surrounds a courtyard which shelters the lawned pool area and carpark.

Madang - Coast Watchers Hotel

Manicured lawns decorated with tropical shrubs



surround this modern hotel, situated on the coast opposite the Memorial Lighthouse. The hotel is a mere 20m from the ocean, 20m from the golf course and a few minutes walk from the main commercial centre of Madang.

Mount Hagen - Highlander Hotel

Nestled in the magnificent Western Highlands, Mt. Hagen enjoys a year-round temperate climate and offers the traveller one of the world's few remaining opportunities to step back in time to find villages exactly as they have been for centuries.

Popondetta - Lamington Lodge

Located in the centre of historic Popondetta, the threshold of the Kokoda Trail. The restaurant and bar

are housed in a central building linked to the guest rooms by a covered walkway through tropical gardens. An ideal base for exploring the land of the world's largest butterfly - the Queen Alexandra Birdwing.

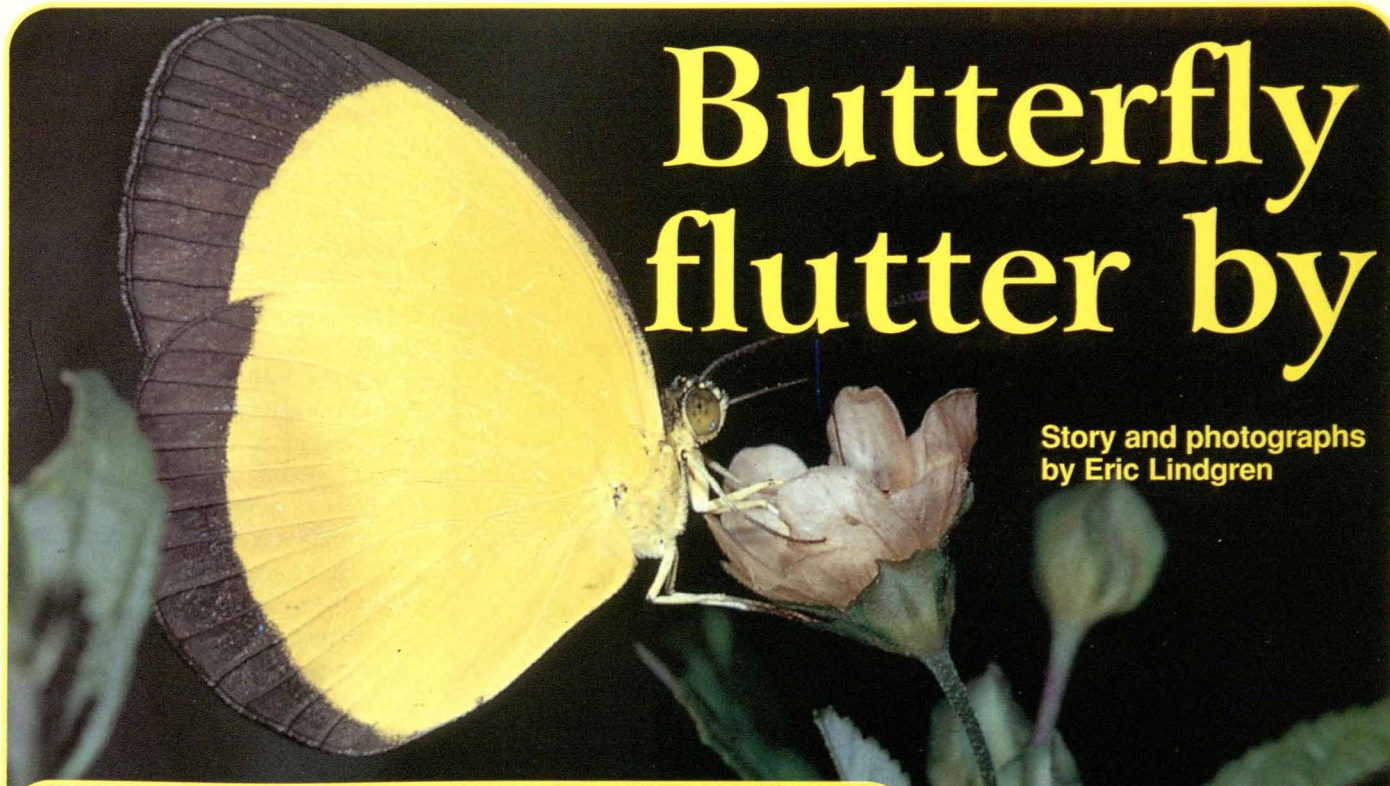


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Butterfly flutter by

Story and photographs
by Eric Lindgren



Top: The Broad-margined Grass Yellow *Eurema candida* is widespread in the southwest Pacific and is also found from Cape York to Coen in Australia.

Middle: Females of many species produce a scent to attract males. This white-winged Orchard Swallowtail *Papilio aegaeus* female probes for nectar from the red flower, while three dark-winged males hover nearby hoping to join abdomens with her to fertilise her eggs.

Above: Some of the tiniest butterflies in the world belong to the Blue/Copper Family, *Lycaenidae*. This Dark Cerulean Hairstreak *Jamides phaseli* has an eyespot and 'feelers' on the hind wing giving the impression of facing the other way.

Unlike in the temperate parts of the world, butterflies can be found most seasons of the year nearly all over Papua New Guinea. There is an indigenous group of true New Guinea species, while most others have originated from Australia or south-east Asia.

The Orchard Swallowtail is typical of the group of species that has colonised New Guinea from the northern and eastern coastal regions of Australia. It is a large species, with a wingspan to about 110mm in the female, the male slightly smaller. The male is basically a black butterfly with patches of cream and dots of red on the wings. The female has broad white splotches on the hindwings and bands of red spots near the margins. Her forewings are also greyish, rather than black as in the male. The female has a buoyant flight and when she is ready to mate she emits a powerful scent that attracts males from several hundred metres away. They fly closely behind her and dart in to try to copulate with her both in flight or when she settles. Even when a male attaches to the female's abdomen other males attracted by the scent will persist in trying to couple, often forcing the group into the air in a spiralling flight of fancy.



Top: Common Aeroplanes *Phaedyma shepherdii* often cluster together to sleep communally beneath a leaf or leaves.

Right: Egg and caterpillar of the Orchard Butterfly *Papilio aegaeus*. After eating the egg case the caterpillar often attaches its hind claspers to a fixed point on the leaf and pivots its way around, making a distinctive circular pattern on the leaf surface. Caterpillars normally shed their skin five times as they grow and each may differ from the previous, thus making identification difficult.

Below: A group of Fivebar Swordtails *Graphium aristeus* drinking from a roadside puddle after a dry-season shower of rain. The male is slightly smaller and darker than the female. The species is widespread in southwest Pacific Islands and also found from Cape York south to Rockhampton.



A typical Australian coloniser, the Orchard Swallowtail is found from the citrus-growing areas of south Australia, through Victoria and up along the coast to Cape York. In Papua New Guinea it is common in the lowlands wherever citrus trees like the *muli* are planted. There are a number of endemic citrus-relatives in the rainforests of the lowlands and the butterfly lays its eggs on these as well as the cultivated fruit trees.

The egg is a miniature yellowish ball about two millimetres in diameter and the newly hatched caterpillar is about four millimetres long. After the caterpillar hatches it first eats the shell of the egg it emerged from. This probably provides all the nutrients needed during the first few critical hours of life. It is a greenish-black colour marked with irregular blotches of cream. At this stage it looks remarkably like a bird's dropping. As it grows it moults its skin five times, changing colour with each change until it finally is about 70mm in length. It is now leaf-green with three dark bands bordered white and a white line along the underside of the body. The early caterpillar has numerous spines while the mature animal has the same number but because it is larger they are farther apart and seem fewer in number. At maturity the caterpillar is about the size of your little finger.

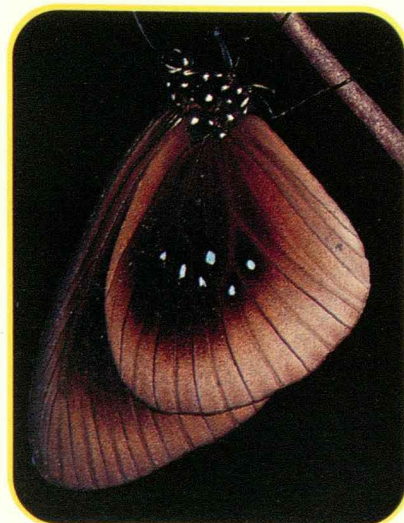


At pupation time the caterpillar stops feeding and becomes restless. It selects the undersurface of a leaf or branch to pupate and hangs upsidedown, clinging by the hind claspers and forelegs. It spins a fine girdle of silk about its middle and attaches this to the leaf or branch, now ready to change its form dramatically. After a few hours, during which all its internal tissues are re-organised, the caterpillar wriggles vigorously, the skin splits from the head backwards and it is pushed down to the tail end.

Inside, a pupa has shaped itself and the new form is now revealed. The rudimentary shape of a butterfly can be recognised: two short horns corresponding to the feelers, flat areas on the sides are the wings-to-be, and the segments of the abdomen are present. For about ten days the pupa hangs suspended like this, reacting with annoyance to the questioning touch of a finger or bird's beak. Once again the body tissues are being completely re-organised within and the structures of the adult are created.

The day before the butterfly is due to emerge it can be seen through the now-clear skin of the pupa. Next day, usually early in the morning, the butterfly drops out of the pupal shell, holding on with its delicate legs. The abdomen is swollen with pinkish fluid which is pumped into the limp wings through a pattern of hollow veins. When dry these will be the reinforcing struts that will give rigidity to the wings.

Excess fluid from the abdomen is discarded and the adult is ready to fly.



Above: *Adult male Common Birdwing butterfly Ornithoptera priamus newly emerged from its pupal shell*
 Right: *The Common Aeroplane Phaedyma shepherdii is a petite species found in southern New Guinea Island and the Mackay area south to the Manning River in Australia. The eggs are laid on the food plants, including the Bottle Tree and Flame Tree Brachychiton species.*
 Left: *A Crow Butterfly Euploea sp sleeping*



Butterflies cannot feed on solid food as their mouthparts take the form of a tube; this can only be used to suck up fluid, such as nectar, water or in some species urine and mineral-laden waters. Beer is often painted onto tree trunks and used as bait by scientists doing fauna surveys. The most extreme modification of the mouthparts is found in a small number of species where in the male they never develop. These individuals have only a short lifetime, living purely on the food reserves carried through from caterpillar days. The males of these species function only to fertilise the females, then die.

The south-east Asian group of butterflies originated in rainforests similar to those of New Guinea and they generally are species with a wide distribution in the region. The Crow Butterflies, *Euploea*, are typical of this group. They have formed many new species in Papua New Guinea, some restricted to quite small islands, and also occur in eastern Australia.

The Birdwings typify the true New Guinea species. These found an abundance of niches in which to speciate throughout the island and it is now the Birdwing capital of the world. The world's largest butterfly, the Alexandra Birdwing, is so huge that it was first collected with a shotgun. Pellet holes are still visible in the wings of the type specimen pinned in the collections of the British Museum of Natural History. Many unique Birdwings occur throughout the highlands. These are Protected National Wildlife but can be bought legally through the Insect Trading Agency established to provide Papua New Guinea's wonderful beetles, butterflies and other insects to collectors throughout the world. (Phone Bulolo 474 5285 or Lae Habitat 473 4999.)

Butterflies live a short life, in some species possibly only six weeks or so, though larger species may live for several seasons. As they age the wings become more and more frayed and brittle. Finally old age catches up and the insect dies a natural death.

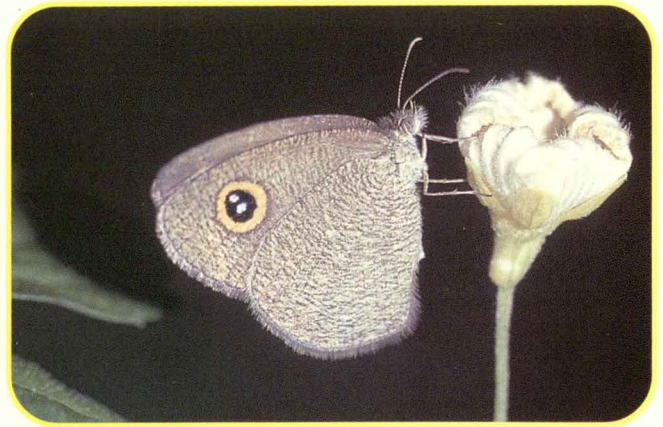
Whether brief or long they have contributed to the web of life which encompasses Our Planet Earth.

Why did the butterfly flutter by?

Because it saw the dragonfly drink a flagon dry!



Top Right: *Two highlights in the eyespot of this Dingy Ring Ypthima arctuos are characteristic of the species. The hind wing upper surface may have another faint eyespot. The Dingy Ring is found in the lowlands of Papua New Guinea and from Darwin east and south along the coast to Victoria in Australia.*



Middle Right: *Newly emerged from its chrysalis, this Green spotted Triangle Graphium agamiemnon sports the brightest colours it will be adorned with during its lifetime. Like others in the same genus the caterpillar feeds upon plants of the Custard Apple family. It comes from the islands of the Southwest Pacific and Cape York south to Mackay in Australia.*



Bottom: *Skipper butterflies have a fast erratic flight, darting here and there unlike the more measured and sedate flight of most butterflies. This Peacock Awl Skipper Allora doleschalli is a rainforest species, here seen drinking water in a stream. It is found in the mid-mountain forests of Papua New Guinea and Cape York to Cairns in Australia.*

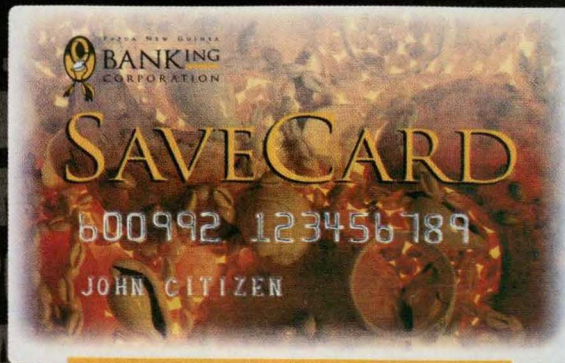




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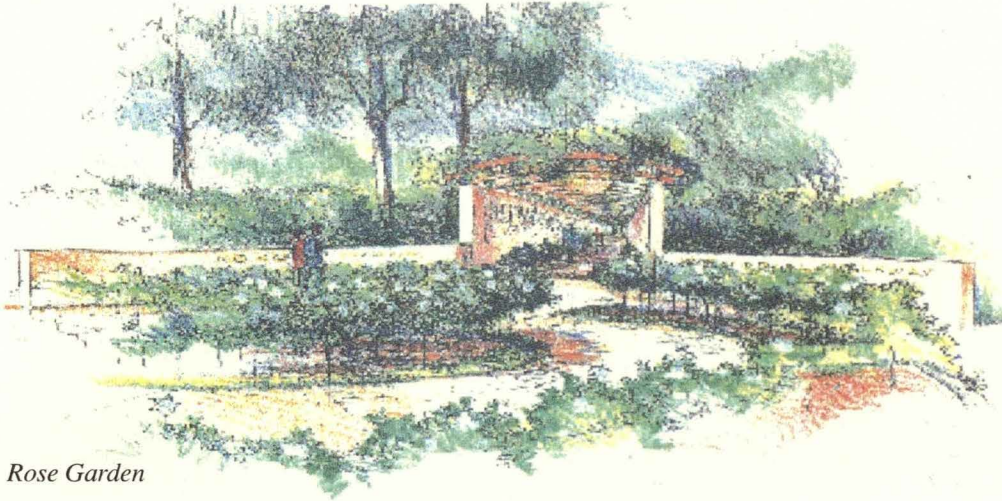


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Kokoda Track Memorial Walkway

Story by G Pearse



Rose Garden



Rainforest Walk



Memorial Centrepiece

On the southern bank of the Parramatta River, close to Homebush where the world's athletes will gather for the 2000 Olympic Games, lives a symbol of the historical and emotional ties that bind Papua New Guinea and Australia. During the past two years the Kokoda Track Memorial Walkway has grown and blossomed, transforming a previously neglected stretch of Sydney's parkland.

With the river mangroves as a backdrop, the Walkway running for 800 metres between Rhodes railway station and Concord Hospital has been planted with hundreds of tropical species. Opposite the hospital is a traditional memorial rose garden.

Occupying pride of place halfway along the path is the centrepiece, a magnificent series of tall granite walls on each of which has been sandblasted a photograph of the Kokoda Track campaign during World War II.

That campaign, from July 1942 until January 1943, was critical in repelling Japanese forces intent on invading Australia. It forged in blood and steel the affectionate bonds that spring from two nations fighting as brothers-in-arms.

Papuans became known to scores of wounded young Australians as their 'fuzzy wuzzy angels'. Cold, hungry and over-burdened, they carried food, fuel, ammunition and medical supplies to the Diggers, and took back the casualties with outstanding devotion and humanity.

BODY DECORATION AN ART

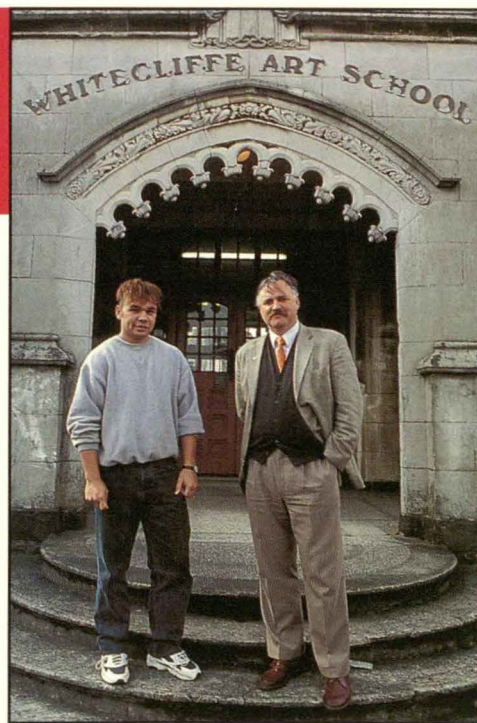
Story by John Rei Photographs by David Jack

The Southern Highlands Province is known for its unique traditional costumes and exquisite body decorations.

This unique cultural array is defined in artist Daniel Mcyano Waswas' paintings. Mcyano's style is freehand and realistic in approach. Much of what he does comes naturally from mind pictures formed from his memory of Southern Highlands culture, exposed to him during his early years in Mendi. Mcyano's art features the transition of body decorations over the years.

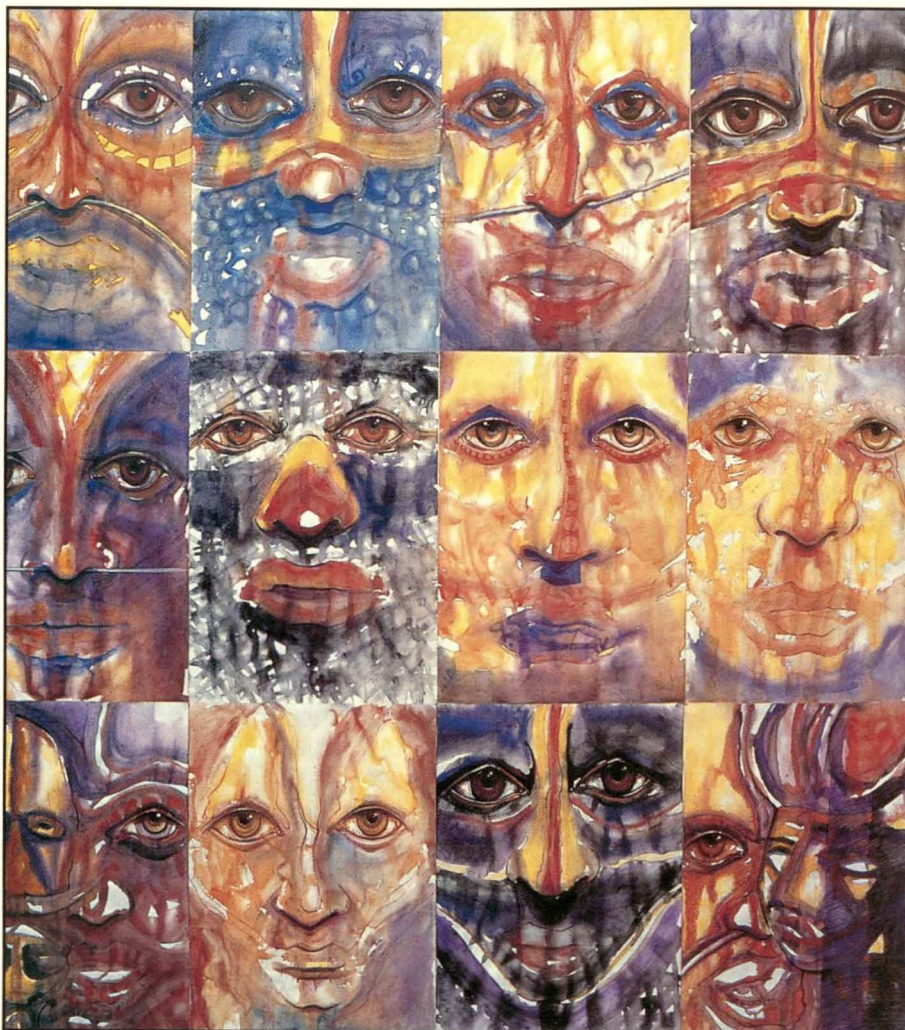
It is a rare opportunity for a student to exhibit artwork overseas. Mcyano was able to do so with the help of the President of Whitecliffe Art and Design College in Auckland, Professor Greg Whitecliffe. His work as an indigenous artist from Papua New Guinea has drawn attention from major business houses and individual art collectors throughout New Zealand.

Apart from exhibiting in New Zealand, Mcyano has participated in exhibitions and symposiums in Australia and Papua New Guinea over



Art academic Professor Greg Whitecliffe with artist Daniel Waswas

Faces of the Highlands — mixed media



the last five years. Mcyano has had a dream of pursuing a career in fine arts since he was a child. Today his work plays an inspirational role in the Highlands Region as school children and village artists see him as a hard worker with the dedication to work his way up.

Mcyano's style is greatly appreciated by visitors to the Whitecliffe Gallery. People are drawn to his paintings by the breathtaking images, patterns and colours that form body decorations. At the same time those who see his work have the opportunity to learn about Papua New Guinea.

Daniel says: *My work is a reflection of what Papua New Guinea really is all about. We are about diversity in culture; still, misty mountain tops; peaceful surroundings with a natural habitat beyond any other Pacific island. My artwork delivers my love and passion for my country to the audience, an unseen force that draws people to come to appreciate and respect Papua New Guinean culture and its identity.*

Daniel spent all his school years in his home town, Mendi. He arrived in Port Moresby in 1992 to pursue a diploma in fine arts from the Faculty of Creative Arts. After graduating, he worked in Port Moresby as a designer before applying to study in New Zealand.

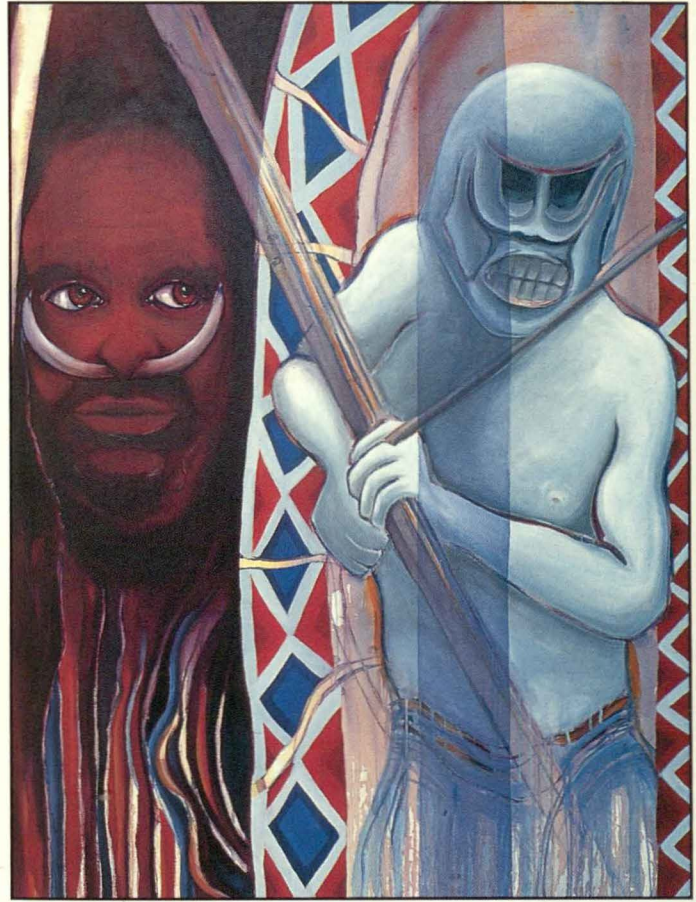
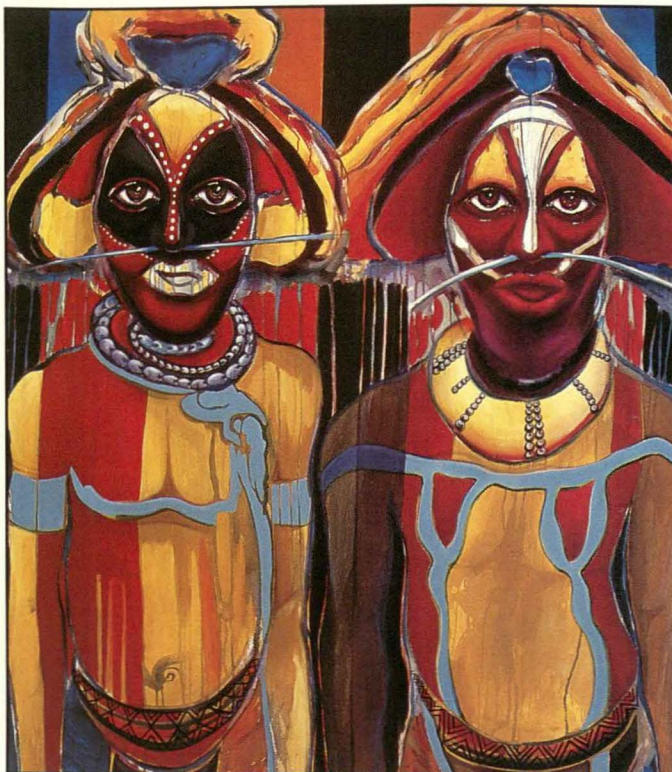


Above: PNG Culture in Circles — acrylic on canvas
 Below: Huli Wigmen — acrylic on canvas
 Right: A Spirit of War and Peace — acrylic on canvas

In 1995 his scholarship application was successful. Since his arrival in Auckland, Mcyano has completed over 80 works of art in acrylic, water colours and oil to bring his mind pictures to life.

Daniel tries to give a positive impression of his country. *As an artist I like to dream and turn my dreams into art, the balancing of colours and customary design to form a painting. Because I respect my country, my art is my retaliation to the bad image the overseas media often portrays about Papua New Guinea. One can only do so much to contain the disease of bad publicity, but at least in my own little way, I contribute to distort it.*

Fascinating are the statements conveyed in Mcyano's artwork — messages of peace, harmony, respect and unity. He acknowledges what nature offers to his mind and heart, bringing a strong sense of respect for nature and one another. Mcyano is proud of his Papua New Guinean heritage: his roots are firmly in Mendi. He plans to return to Papua New Guinea after his studies to develop a proper village art industry in his province and gradually throughout the country.





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Finance Asia as the best privatisation related offer for an Asian issue in 1996.

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MUSEUM NEWS

Snakes

Story by John Rei
Photographs by Mark O'Shea

Snakes have fascinated people all over the world for thousands of years. Papua New Guinea is no exception with 93 species of terrestrial, freshwater and marine snakes, belonging to six of the world's 13 snake families. Of pythons alone, Papua New Guinea has eight species.

At the National Museum at Waigani visitors are greeted by displays of Green Tree and Papuan Olive pythons in glass cages, guarding the animal enclosure. These are followed by four more glass display cages of Boelen's and D'Albertis pythons. Growing to lengths of well over 2 metres, pythons are regarded as humble giants in the forests, swamps and gardens of Papua New Guinea.

While some snakes found in the country are venomous and life-threatening, pythons in fact are not. Because most people erroneously think that all snakes are dangerous, many snakes are killed by man without good reason. According to snake researcher Mark O'Shea, snakes in Papua New Guinea are destroyed for four



main reasons: from fear, for food, for fun or for financial gain. Not only are many snakes harmless, many are actually beneficial to humans and to the ecology of our habitat.

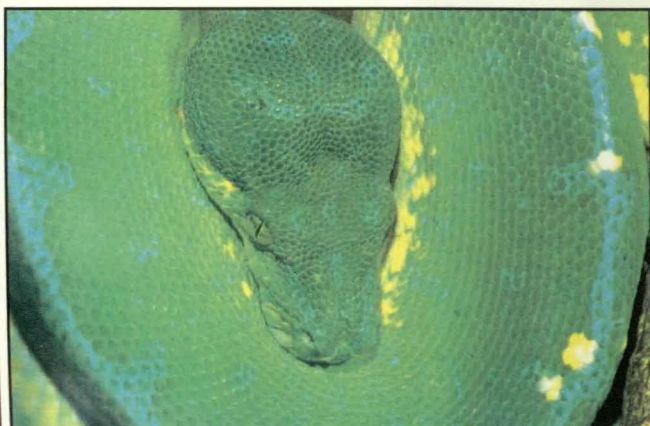
Over the last 25 years the Museum has worked with local communities, NGOs and relevant government agencies to raise awareness about the importance of conservation of the snake chain in the country. These efforts have been greatly enhanced by the research of Mark O'Shea which culminated in the publication of an excellent reference book *A Guide to the Snakes of Papua New Guinea*.

This book is the first comprehensive guide to all snakes found throughout the country. It teaches readers how to identify snakes, their likely habitats, how to treat snake bites and the importance of snake conservation. Without any doubt, every home in the country should have a copy of this useful and interesting book.

A clear message of the book is that it is better to leave snakes alone when you come across them. In so doing, not only do you minimise danger to yourself, you will also contribute immensely to the conservation of snakes.



Above: Northern D'Albertis python
(Siar, Madang Province)
Below left: Juvenile Green tree python
Below right: Adult Green tree python





Left: *Boelen's Python (Woitape, Central Province)* Right: *Papuan Olive Python (Inauabui, Central Province)*

The publication of the *Guide* in 1996 was paralleled by the first comprehensive snake exhibition in the country at the Museum. The exhibition drew large attendance and plans are in progress for further exhibitions.

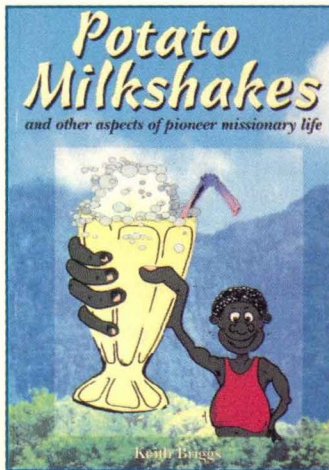
If you wish to know more about snakes a good place to start is the Papua New Guinea National Museum and Art Gallery.

You won't disturb the snakes on display as they lie in their glass cages, showing off their unique scales and colours. Nor will they disturb you! You will also be able to speak with specialised staff members of the Natural History Division about snakes, or about any other matters regarding the natural habitat of Papua New Guinea.

The Museum is open from 9.00am-3.00pm Monday to Friday and from 1.00-4.00pm on Sunday.

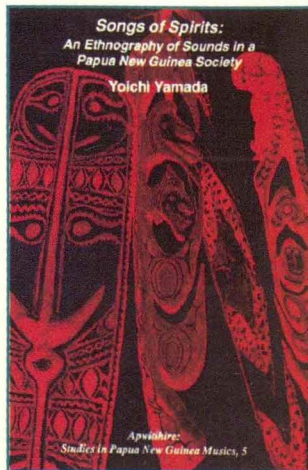
A Guide to the Snakes of Papua New Guinea by Mark O'Shea was published by Independent Publishing, Port Moresby. The book is available from the Museum Bookshop.

NEW BOOKS



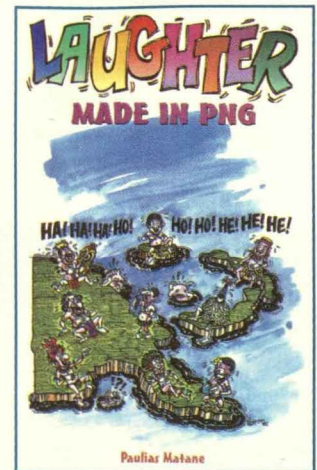
Thirty years in the Southern Highlands and Western Provinces uniquely qualify Keith Briggs to write of the trials and triumphs of missionary service with Asia Pacific Christian Mission. This book will captivate anyone who has the smallest interest in contemporary Papua New Guinean history, mission and rural life.

Available from PO Box 3018, Boroko (cheque for K20 to K Briggs) or in Australia from APCM, PO Box 276, Preston Vic 3072 (\$20).



This ethnography translated from Japanese by Jun'ichi Ohno is the fifth volume in a series of studies in Papua New Guinea music published by the Institute of Papua New Guinea Studies. The book details interrelations between spirits and humans as a guide to understanding the traditional music and dance of the Waxei people of East Sepik.

The book and accompanying compact disc are available from IPNGS, PO Box 1432, Boroko (K15 plus postage).



The latest publication of the prolific Sir Paulias Matane, *Laughter Made in PNG* is excellent medicine. Over 100 jokes cover diverse aspects of life including business, children, diplomacy, dress, language, religion and pronunciation. Possibly the most hilarious are those jokes in the section titled *In-Flight*. Maybe an Air Niugini steward will write a sequel!

Published by UBSPD, the book is available in newsagents and book stores.

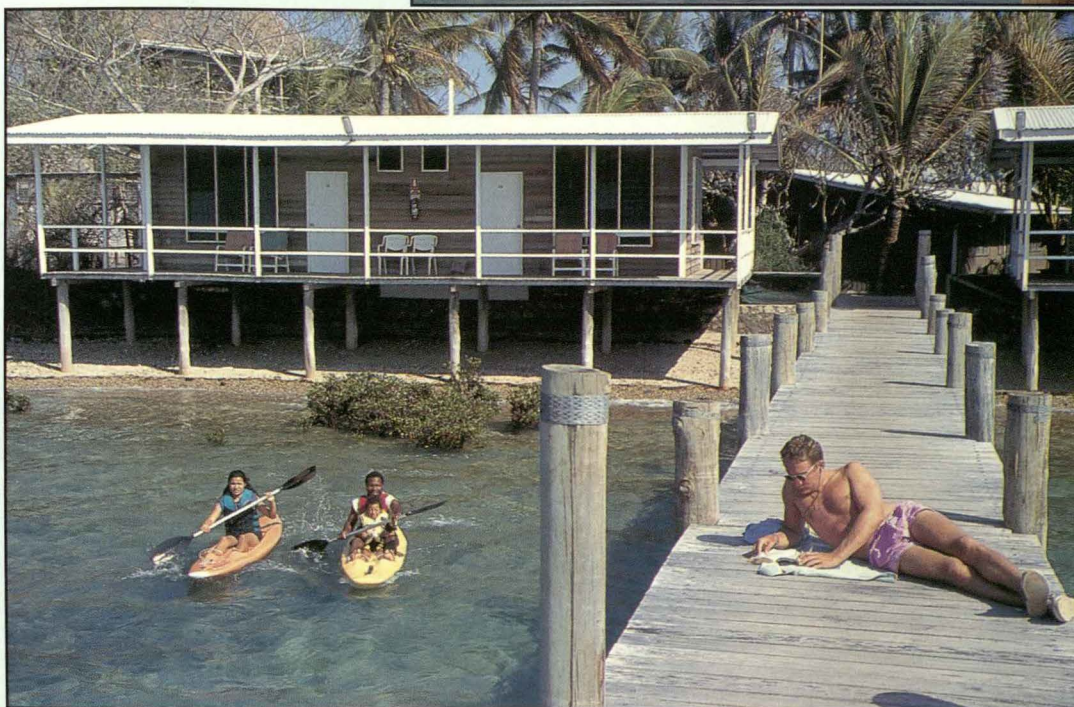
Leisurely Loloata

Story and photographs
by Keith Briggs

Bootless Bay, with its azure blue water, encircling hills, launches and yachts at anchor, is where you feel the cares of life begin to fall away. Although only 20 minutes drive from Port Moresby you are in another world, peaceful and serene. Here, you are met by one of the Loloata Island Resort staff in a diesel outboard banana boat or the larger ferry for the ten minute trip to Loloata Island where you disembark and have your luggage carried to your room.

The salt sea air has you right into holiday mode even before reaching the base of the long jetty. There are ten spacious units built over high water mark and five further back with ocean views.

Above: *Loloata Island Resort*
Right: *'Cat' ferry arriving at Loloata wharf*
Below: *Guests relaxing in front of units*





Each unit has a spacious bedroom with a queen size bed, a single bed and ensuite. Rooms are serviced and tropical flowers replaced daily. The temptation is to flop straight into one of the easy chairs on the verandah but it pays to check out the lodge and sample the brewed Goroka coffee ready for your enjoyment at any time. Friendly staff show you around and make you feel at home.

Drinking water is either from tanks or desalinated sea water, so is pure and free of chemicals.

The very reasonable tariff for day trippers includes boat transport to and from Loloata, return trip to Lion Island, a sumptuous smorgasbord or buffet lunch, free coffee, tea and biscuits and the use of volleyball, table tennis, dart board and relaxing area. Surf skis, kayaks, sailboards, outboard powered dinghies with drivers and snorkel gear are available for hire by any guest.

Loloata's air conditioned, fully equipped Conference Centre is well used by groups desiring a happy combination of business and pleasure, and the island is an ideal venue for family celebrations or a wedding.

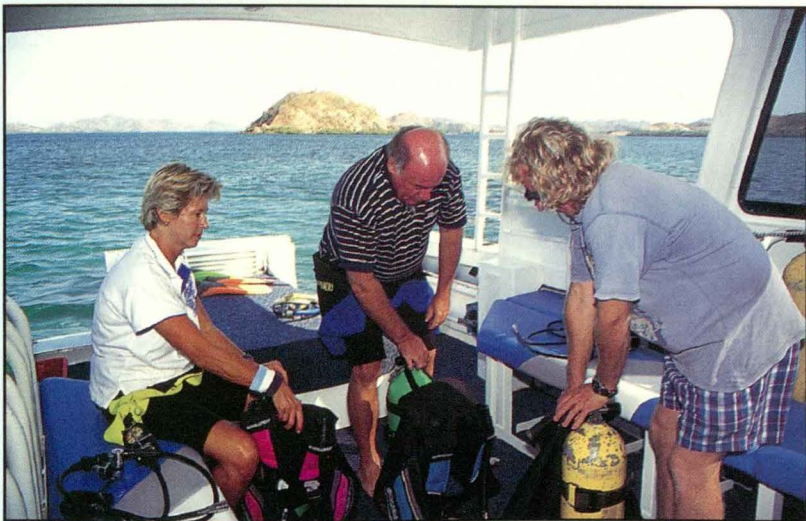
Swim and play in the clear blue waters without fear of any marine nasties. There are shallow areas where toddlers can safely play, and not far away water as deep as ten metres. Walk along the high backbone ridge of the 1.4km long island and enjoy views that will start your camera clicking. Loloata is the musical Motu word for 'one hill'. Circumnavigate the island by rock hopping around the foreshore, marvel at the different geological formations or the fascinating symmetry of mangrove roots and the creatures that live among them.

Crunch the white coral sand of Lion Island beneath your feet or float around with goggles and snorkel above the colourful fish and coral.

Ever wanted to scuba dive, to enter that fascinating underwater world? Realise your dream onboard the new nine metre MV *Dive Loloata* with a qualified dive instructor. Experienced scuba divers, Loloata is for you. MV *Dive Loloata* comfortably carries 12 divers and crew at over 20 knots, has hot and cold wash down, is equipped with electronic navigational aids and all safety gear.



Top: *Comfortable room*
 Middle: *Well equipped conference room*
 Above: *Relaxing area at night*
 Right: *Preparing for dinner on the verandah*



For smaller parties, there's a covered banana boat carrying six divers and crew at 15 knots. All needed scuba gear can be rented from the dive store.

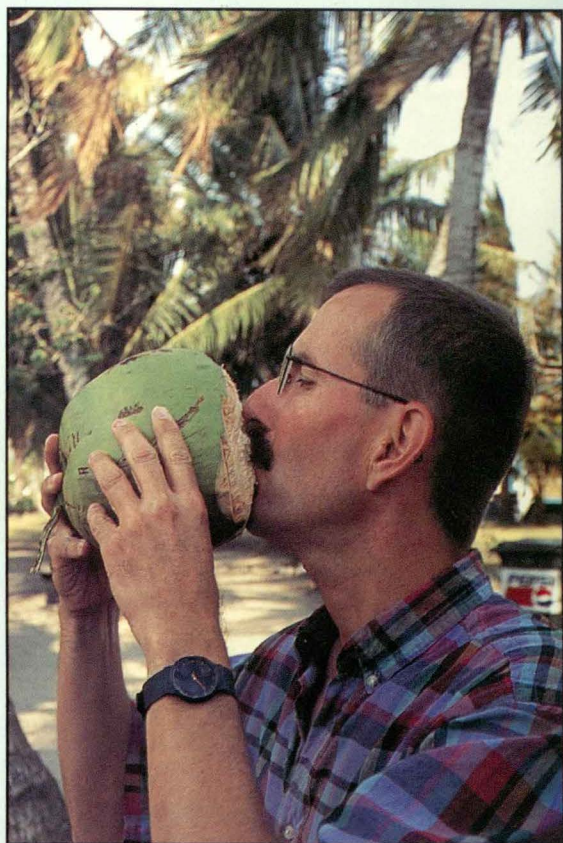
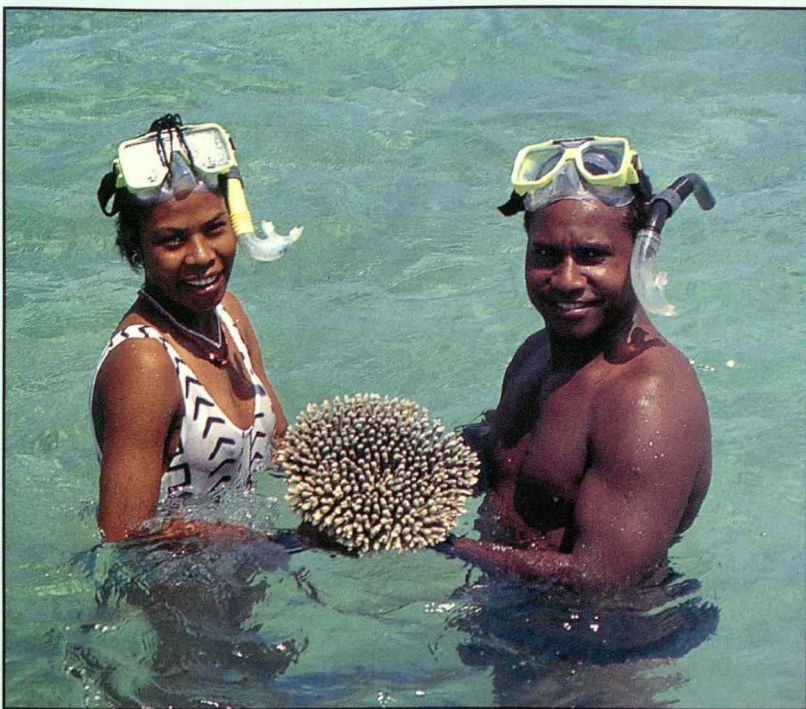
There are barrier reef sites, offshore pinnacles and bommies, reef channels, walls, inshore satellite reefs, island fringing reefs, WWII aeroplane wrecks, shipwrecks scuttled specifically for sports divers and 'muck' dive sites.

Guests hardly spend any time at the well stocked bar! They sit in comfortable sling chairs around low tables in the large, cool, open annex of the lodge with waiters and waitresses moving quietly around taking orders and delivering drinks.

Day trippers are reluctant to leave when the boat departs at 4pm, but they go with the satisfaction of having had a pleasant day.

Accommodated guests settle to further relaxation in anticipation of an evening barbecue or three-course dinner on the verandah by the low sea wall with the waves lapping on the pebbles.

At 6pm pre-dinner savouries are served to wherever you are having a quiet drink, while a spectacular sunset silhouettes the islands to the west.



Top left: Diving instructor Michael aboard Dive Loloata

Middle left: Hospitality staff holding coral from Lion Island

Left: Treasures of the sea

Above: Guest enjoying Papua New Guinea's best drink — the juice of a coconut



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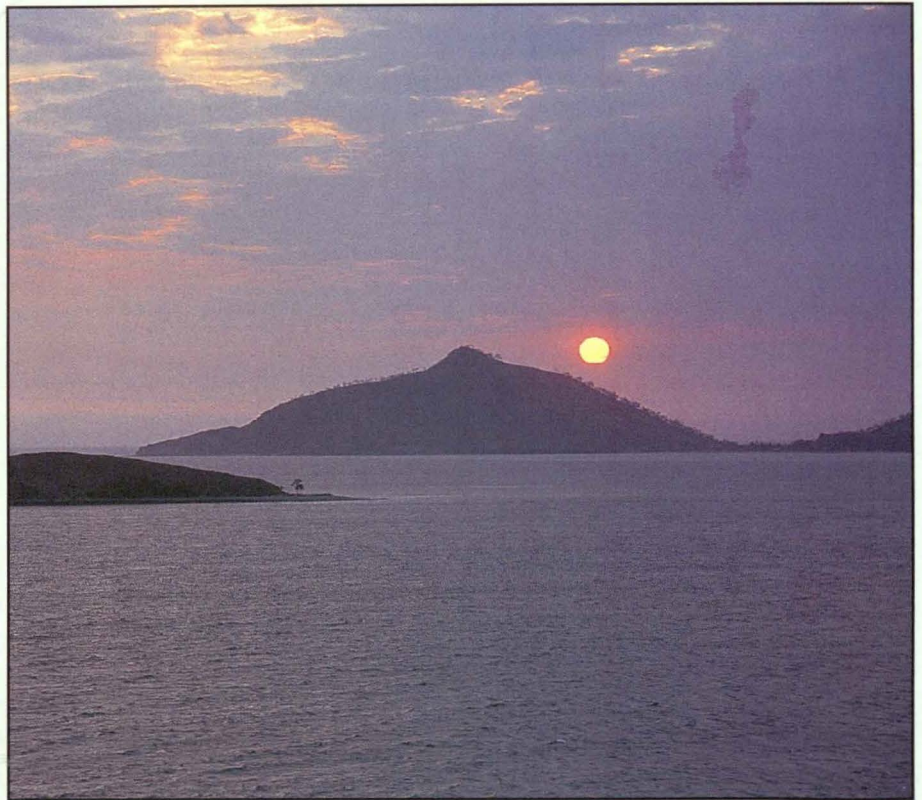
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Although Port Moresby itself is known to have security problems, Loloata truly is another world in that there are no fences, security bars or wire mesh. Guests enjoy freedom of movement day or night and you can yarn the evening away or learn more about Papua New Guinea from the library of informative videos.

After a day on leisurely Loloata, sleep comes easily as the waves make music on the sand under your unit.

To book a day trip or accommodation phone the resort on 325 8590 or 325 1369 or enquire at your hotel reception.

Typical coastal Papuan mangroves at Loloata



Ninety-Eight Years

by Steven Gimbo

Grandmother was one woman who always believed in blood-lines. For example, she said if your father has a bald head, you too will lose hair as you grow older. Or, if one from your blood-line is a sorcerer, a descendant will also be a sorcerer. Grandmother believed in Gende proverbs: 'They are the same blood'; 'she is her mother's daughter'; 'he is his father's son', and so on. Therefore, she always believed she would die young like those before her.

When I talk, you listen and do everything I say. Don't oppose me. You are little kids and I am looking after you, just as I've always looked after your parents. I won't live to see the fruits of my hard work. I will die young just like my fore-fathers. It is in our blood. Our folks die before reaching old age, she would say as she scolded us for our bigheadedness. That was when she already had white hair and feared her time was near. But every time she said that, I would tell her almost childishly that she would live to see her great-grand children before she died. And that was 27 years ago when I was a mere five-year old.

Years and years later, when I saw her cradling her three year-old great grandson, I felt proud. I kept on remembering how I had told her she would break the spell and live long, but I did not remind her about what I'd said all those years ago.

One day, she called me over after I had returned home for Christmas. When I had sat down, she took from her *bilum* a long piece of string with big and small knots on it.

This is a timeline. My timeline, she answered my unasked question. *The big knots are the years and the small ones in between are the months.*

I counted the knots. In between some knots I noticed she had added coloured strings. She told me they were for the months when one of the family was born. There were even black knots to mark deaths in the family.

I don't know what year I was born but I have recorded how long I have lived until now, she said.

But how do you know when you were born, I asked rather confoundedly, *for you to record exactly on this string?*

Oh, that was easy! My mother kept a record when I was born and told me about it. All I had to do was continue the record.

Well, yes. But how could you tell the years and the months in those days? I asked still confused.

Oh, you think you are so clever with the white man's ways and machines. In my youth we could tell years and months from the seasons, trees, moon, stars, sun and even from animals. We knew of certain plants and trees that bore fruit only once a year so we knew when the fruit was ripe that one full cycle had been completed.

I was even more confused but looking at her in her old age, I understood the timeless Gende proverb: 'Wisdom comes with age.'

Then I noticed that she was straining her eyes, trying hard to see where she had heard my son — her great-grandson — laughing and playing with the other kids. She had lost most of her sight.

Remember all those years ago when I used to tell you that you would live to see your great-grand children?

She had that faraway look in her eyes as remembrance came to her. *Of course, how can I forget. I recalled everything the minute your son was born,* she said with a smile. *Besides, you were always my favourite grandchild.*

Sometimes, I wonder and am amazed at the magic of how I have lived this long. Maybe it is because I lived to see your children and my great-grandchildren. Or maybe, I'm not bound by the spell any more? she continued.

But that was over twelve years ago when I read her timeline and we had that conversation. She was 86 years old then. No one apart from me knew at that time that she was this old. Not even her children — my father and his brothers and sisters — knew about it. It was a secret between me and Grandmother because she feared sorcerers and witch-doctors might kill her if we made such a big noise out of it. In time, I forgot all about the timeline until she passed away in her sleep last year.

Before she passed away, she had made my parents promise to let me have her old *bilum* in which she carried her most prized possessions, as I was her favourite grandchild. On the evening after her burial, I checked through the *bilum* to find a rosary, a crucifix, a Somare-head 50 kina note I had given her when it was first distributed, and the timeline string.

The timeline string brought back fresh memories of long ago and I realised that I had grown old too. I'm no longer Grandmother's favourite grandson. I started to count the number of years on the timeline as tears ran down my cheeks. My tears continued running down, even after the count ended at 98.

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Zuepak Revisited

Story and photographs
by Rev Ian Porter

Steeply banking our small plane, the pilot circled as he tried to locate the right valley. Below us, beneath the broken clouds, lay the myriads of ridges and valleys that form the Sarawaget Range in Morobe Province. At the head of one of those valleys lay the village of Zuepak and its grass landing strip. Eventually the valley was found and we made a safe, bumpy landing into another world.

I stepped out into a landscape of vibrant green — a world of crisp, clean air and wonderful quietness so different from the frenetic anonymity of Sydney.

By now most of the villagers had made their way to the top of the airstrip to see this visitor who had come all the way from Australia and I was feeling somewhat conspicuous. However, the feeling soon disappeared as I saw my friends Ross and Lyndal Webb with their two boys Christopher and Paul making their way through the curious throng.

Ross and Lyndal have been in Papua New Guinea since 1982 and work with the Summer Institute of Linguistics. They are in Zuepak to put the language of the Upper Irumu people into written form and, in so doing, translate the New Testament into the Tuma language. Even with modern technology and the support and encouragement of the village people, this recently-completed labour of love has meant 15 years of work.

Children of Zuepak



Above: Zuepak village, looking south

Below: Zuepak Community School



The 1300 or so speakers of the Tuma language are distributed among seven villages in a region some 80 kilometres north west of Lae. Each village is located within three hours walk from its neighbour, so there is quite a lot of interaction between the villages. One of the highlights of my stay was a trip from Zuepak to the village of Gumia. The occasion was the annual church conference of the villages comprising

the Upper Irumu language group. Each year a different village hosts the conference, and I am glad it was not further away. Gumia is only two villages (or six kilometres as the crow flies) away from Zuepak, but it took us six hours to get there.

Leaving Zuepak (altitude 1200m) shortly after breakfast, we climbed the path going straight up the hill behind the village. It had rained during the night, and the effort of walking increased dramatically as the soles of my boots quickly clogged with a very dense and slippery clay, so that I had almost no grip at all. What I needed was a pair of Rugby boots! Finally we reached the top and joined the main track that would lead us to Daku, the nearest village. Although the junction was only about 250m higher than the village, it was a good place to have a rest and enjoy the views over the surrounding ranges. For the next two hours, the track generally followed the contour line.

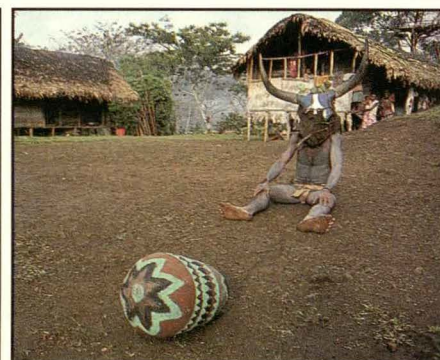
We crossed many small streams and there were frequent opportunities to absorb the beauty of our surroundings (photos on right) as we passed through large tracts of bougainvillea and bamboo, glimpsing the occasional goanna and cuscus.

Daku is about half-way to Gumia and our arrival brought most of the village out to see these two white visitors. This beautiful village situated on the tip of a ridge high above the Tuma River is impeccably clean with pretty bamboo decorations around the huts. This cleanliness is largely due to the simple facts that any scraps of paper are used for 'roll-your-owns' and any left-over food is quickly eaten by the pigs or other animals. The villagers take pride in their food gardens and small flowers are often used as decorations around the huts.

After a short rest we faced the dreaded Daku descent, a 500m slide and scramble down to the Tuma River. The worst thing about the descent with its amazingly slippery undergrowth and clay was the knowledge that upon our return in a few days time, it would become an ascent! Nevertheless, gravity did its job and we eventually reached the river and made our way downstream to the log and vine bridge that had been 'rebuilt' for conference delegates to use. There we had a break and contemplated the 600m climb to the top of the opposite ridge, beyond which lay Gumia village.

The ascent to Gumia was long and exhausting, being made even more arduous by the torrential rain that began soon after we started our ascent. Since I was already drenched from perspiration, the rain was not uncomfortable, but it made the track even more slippery and difficult as we struggled to make our way upwards.

Eventually we arrived at Gumia. As we did, the rain suddenly stopped, the sun came out and so did the villagers! We made our way past dozens of incredulous faces to the hut that had been set aside for us. I later learned that their astonishment was due to the fact that they had never before seen anyone as tall as Ross or as broad as me. Apparently I was known as 'the smiling giant'. Nor had they ever seen anyone with clouds of water vapour rising from their body as it was rising from mine in the warm sun.



Above: People are often brought together for public announcements etc by the performance of a skit. This one involved a bull with large testicles.

We collapsed inside the hut and were brought some hot food that we quickly put to good use. The hospitality was wonderful, but I felt very conspicuous as dozens of villagers quietly stood or sat in the hut watching us eat — especially as I couldn't converse with them.

A little later I found myself in a quandary when, during a meeting, I was sitting on a plank on the damp ground. Everyone else was doing the same, but a villager brought the only chair in the village over to me and motioned to me to sit on it rather than on the ground. It was an act of great hospitality and generosity, but it was offered to me before the other visitors because I was 'masta' (a white man). Should I insist on sitting like everyone else (and risk insulting their hospitality) or should I accept their kindness and perhaps encourage their deference to whites? Since I felt that maintaining a positive relationship was most important, I sat on the chair and put up with feeling very self-conscious.



Above: The skit continues as a group of women (i.e. men dressed as women), hunting for nuts and berries, discover this 'super nut' and try to take it home, much to the bull's horror.

Right: Believing their find to be a nut, the women crush it, bringing peals of laughter from the audience, but the painful demise of the bull.



Such differences in attitudes and lifestyle are very humbling, but others seemed quite funny to me. The chairman candidly made these points during his 'opening remarks' at the conference:

Be careful with your aim in the toilets — it's not a party where everyone is drunk.

Don't throw your food out of the windows — the pigs have got enough to eat.

We've appointed people to go around and make sure that all the delegates come to the meetings — you're not here just to eat our food and have a good time.

We're going to take up the collection before everyone spends their money on tobacco — you can buy tobacco if you've got anything left over.

On the third day, we returned to Zuepak. The dreaded Daku hill wasn't as bad as expected. Although I 'crashed' after I got back, I was back to normal after a day or so.

Perhaps the quality in the villagers that I found most attractive was their openness and sense of wonderment.



Morning in Gumia, clean air in abundance!

Sadly, in the West these qualities are often extinguished by the time our children reach primary school.

In the Irumu villages, so many of those things that ravage Western society are absent. The villagers of the Upper Irumu region know that they are able to enjoy a better quality of life in the village than in the towns. They have adopted and benefited from some of the good things of the West such as medicine, methods of hygiene and

agricultural techniques, but few have any desire for the social difficulties encountered in some of the larger towns, where they have seen great damage done to the good things of village and family life. So, although most Irumu are tantalised by the 'magic' of western technology and lifestyle, they fear the social consequences of its encroachment upon village life.

But for how long will they be able to resist its pressures?

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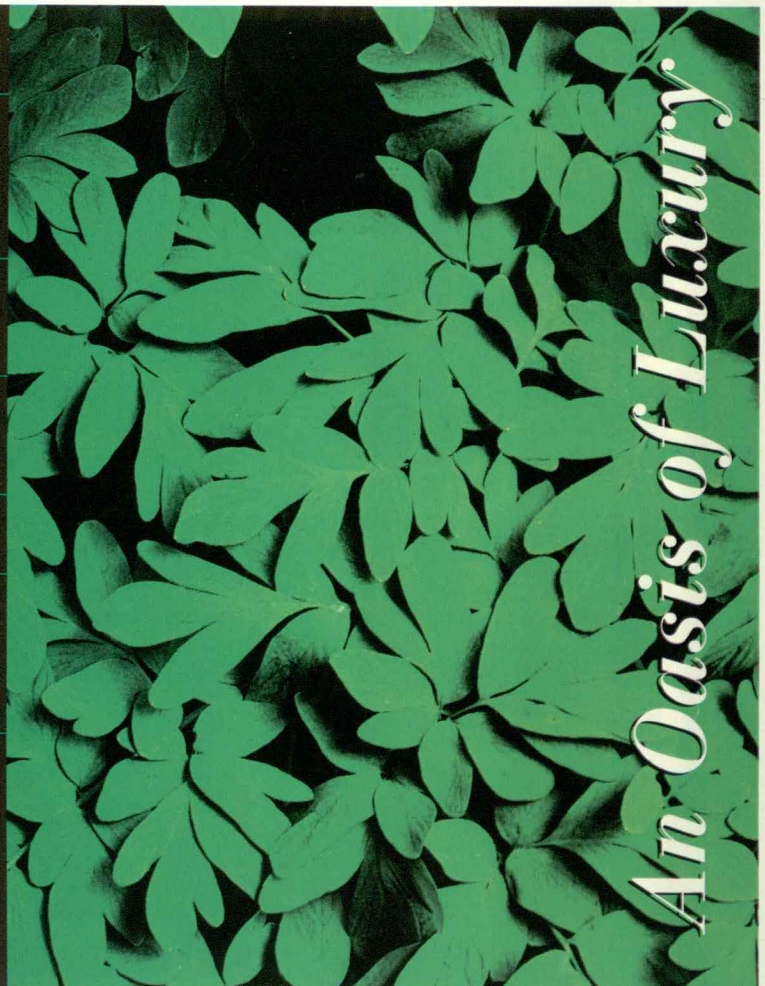
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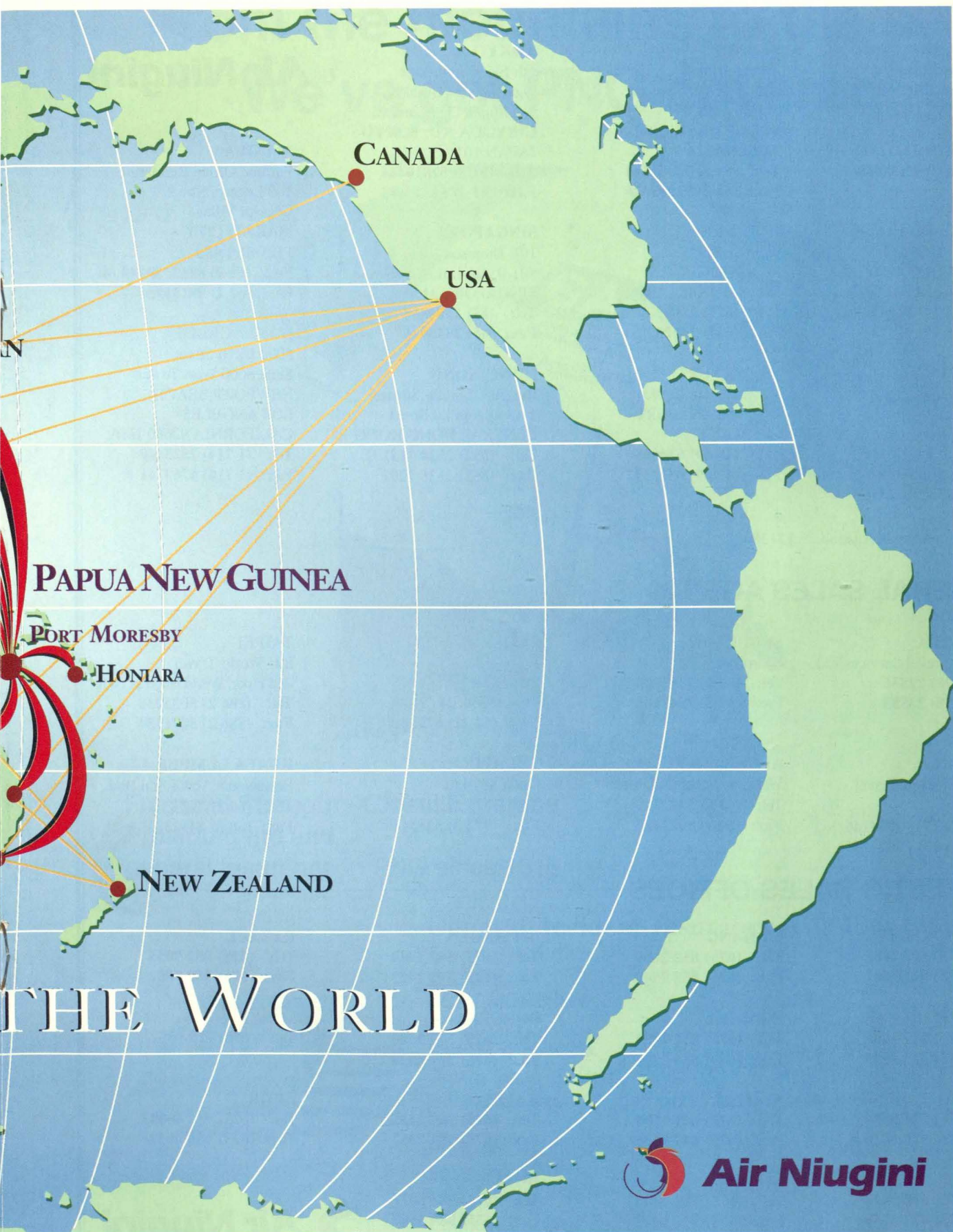
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James Nightingale — winner of the Fotofast Photograph Competition
This giant green tree frog was photographed in Madang.

TASTE SUCCESS



GOLD MEDAL WINNER





These days the central figure at the Eastern Highlands Cultural Centre in Kainantu is Sebi Warau. Her parents were originally from Finschhafen, but moved to Kainantu as missionaries before she was born. Her father was the original potter and her mother the original weaver, so the business has always played an important part in her life. At the official opening back in 1982 Sebi was a Grade 8 school girl. Now she is the driving force behind this self-sufficient enterprise and her enthusiasm for the business is evident as she takes time to show people around and explain how everything is made.

The original pottery was founded in the 1970s by Muriel Lesley Lerner at her home thirty kilometres out of Kainantu. In 1979-80 the present buildings were erected with assistance from the Provincial Government, local businesses and volunteer agencies.



The focus of the cultural centre is the pottery and it is for this that the centre has become best known. The clay for the pots is all acquired locally from different areas and until recently preparing the clay for use was a time consuming process, using only simple plaster beds. In 1994 the centre invested in a variety of new equipment such as a mixer, filter press and pug mill which has reduced the preparation time from weeks to days. Sebi is keen to emphasise that all the pottery is lead-free and oven-proof — made for use and not simply decorative.

The centre employs five potters, many of whom have been with the centre almost since it opened. In many ways Johnson is typical of the people who work at the centre. He was first employed straight from a mission school as a trainee potter and has worked there since 1983. Now he works on an incentive bonus, with the centre providing a platform for the sale of his work.

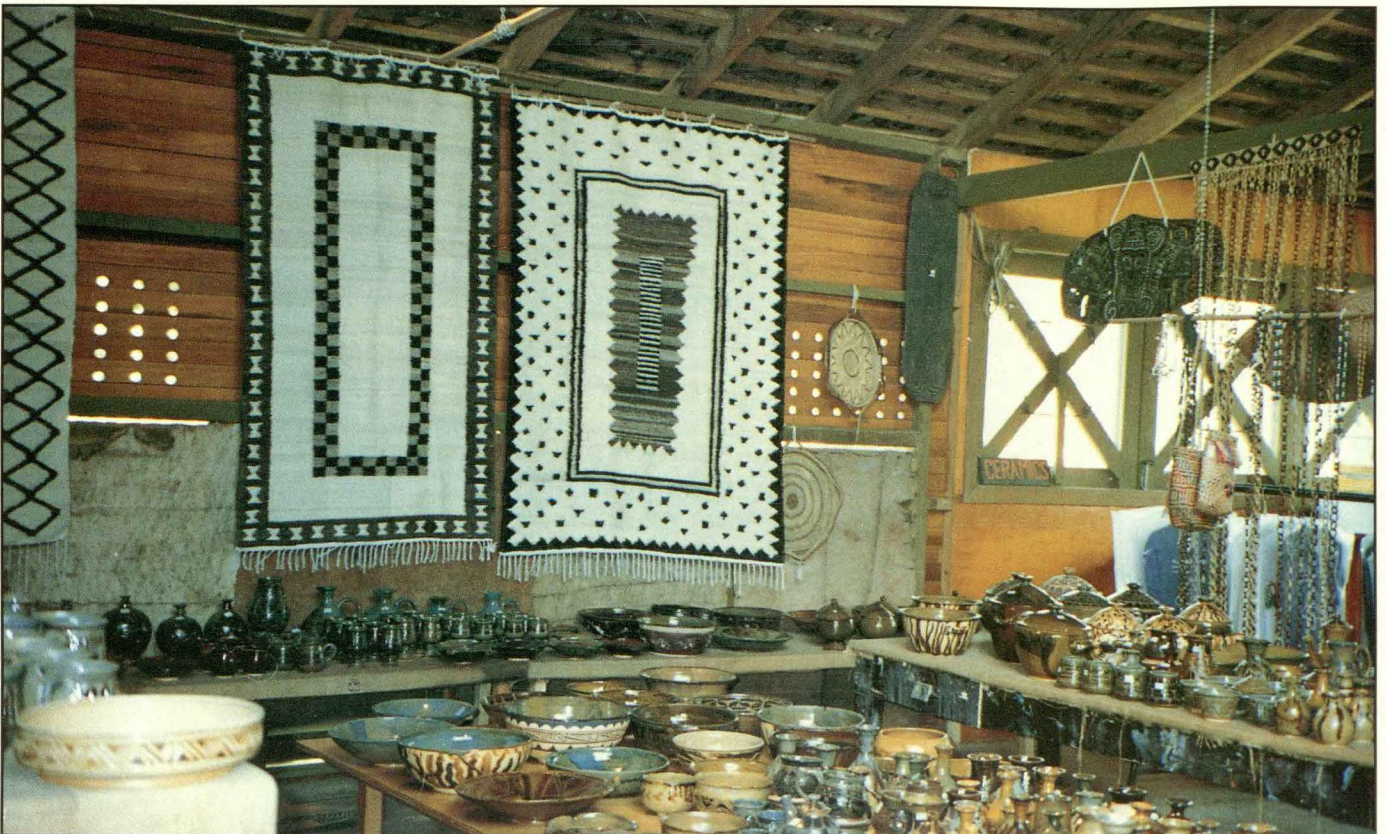
Before the centre moved into its present premises, the wife of an English doctor working in Kainantu taught Sebi's mother how to weave. So began the centre's second line of artefacts. While not as famous as its pottery, the weaving section has a full time employee preparing the wool and two weavers, Ruwis and Lois, who have worked at the centre for over ten years. The wool is purchased locally and cleaned at the centre. All the colours used are natural. The patterns constantly change as the weavers seek new ideas, though two popular designs woven frequently are one which features a group of small huts and another which depicts a pregnant woman.



A further workshop contains the screen printing section and much of the work here is done to order, both for organisations and individuals, anything from coffee bags to curtains, from T shirts to tablecloths.

The centre is also home to a small museum. Sebi explains that some of the items have arrived in Kainantu through trade while others are local. These include the cooking pots which are still made in the Pomassi area and the salt pads made of pandanus skin, used for trade in earlier days. Among the more interesting domestic items are sleeping 'pillows' — thin wooden head rests, which look more like instruments of torture than inducements to sleep.

Above: *Sebi preparing wool* Below: *Artefacts on sale* (Photograph by Moni Seddigh)



Right: Tara, a visitor to the centre,
at his first pottery lesson

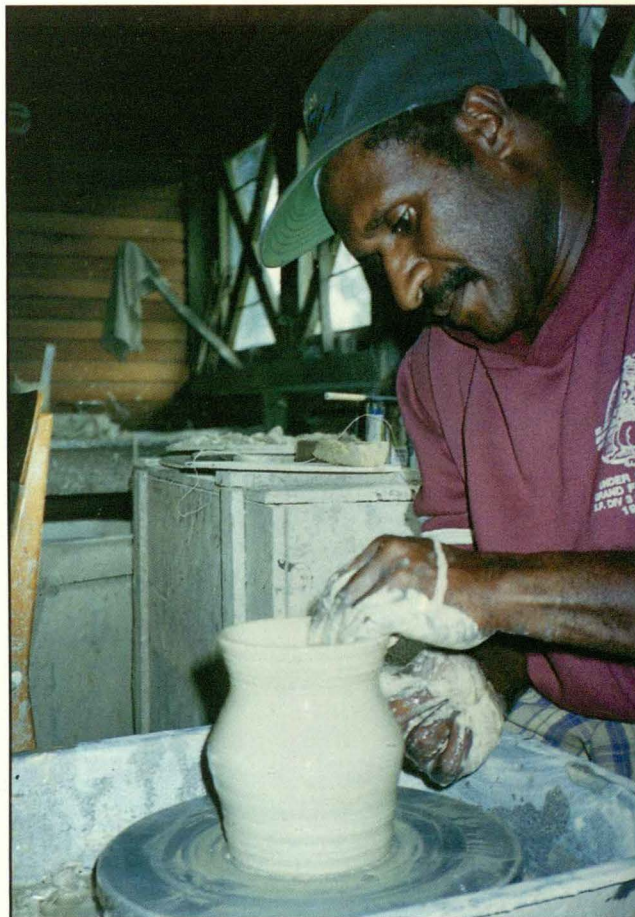
Reminders of more troubled times are the old wooden shields and fighting sticks. Sebi describes how in the days of her grandfather the women in the Kainantu area would line up in front of the men going into battle, acting as human shields, trying to deflect the shower of spears raining down on their men by using fighting sticks.

A more modern selection of artefacts in the museum is a collection of wooden spirit figures, the work of a local craftsman named Soso. Such artefacts as these were once for sale and in demand from overseas buyers, but Soso's recent death means that the centre will now keep all the remaining figures in the museum.

The workshops are open to the public and it is interesting to wander through and watch the crafts people at work. Sebi takes pleasure in explaining the various processes which take place to produce the finished articles and the artefacts in the museum are brought alive by her commentary.

The Eastern Highlands Cultural Centre is on the Highlands Highway on the edge of Kainantu and is well worth a visit.

The centre is open seven days a week: 9am-4pm Saturdays and Sundays and 8am-4:30pm weekdays. On the first Monday of every second month the centre plays host to a variety of local crafts people who set up their stalls on the front lawns, making this an ideal time to visit.



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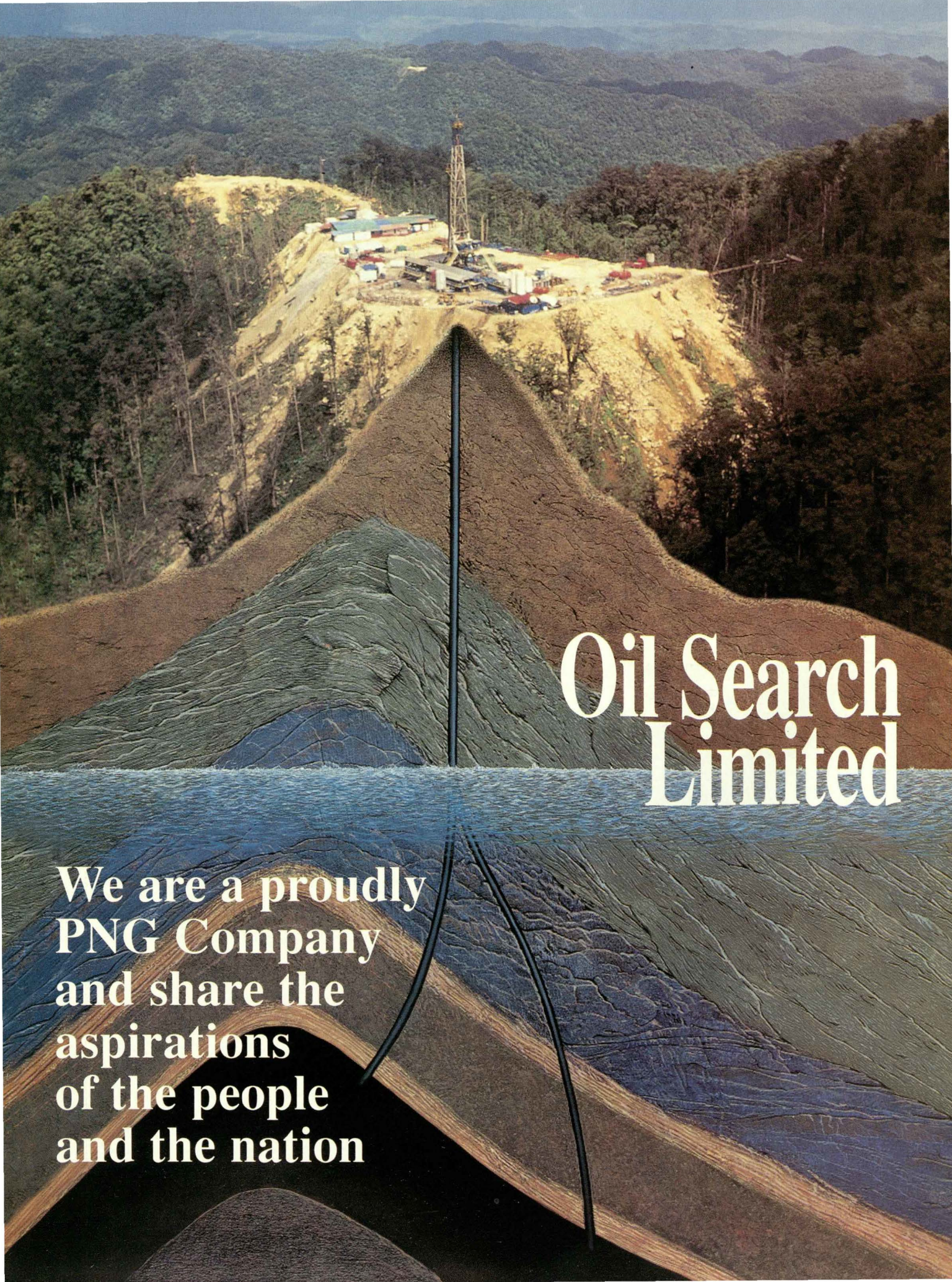
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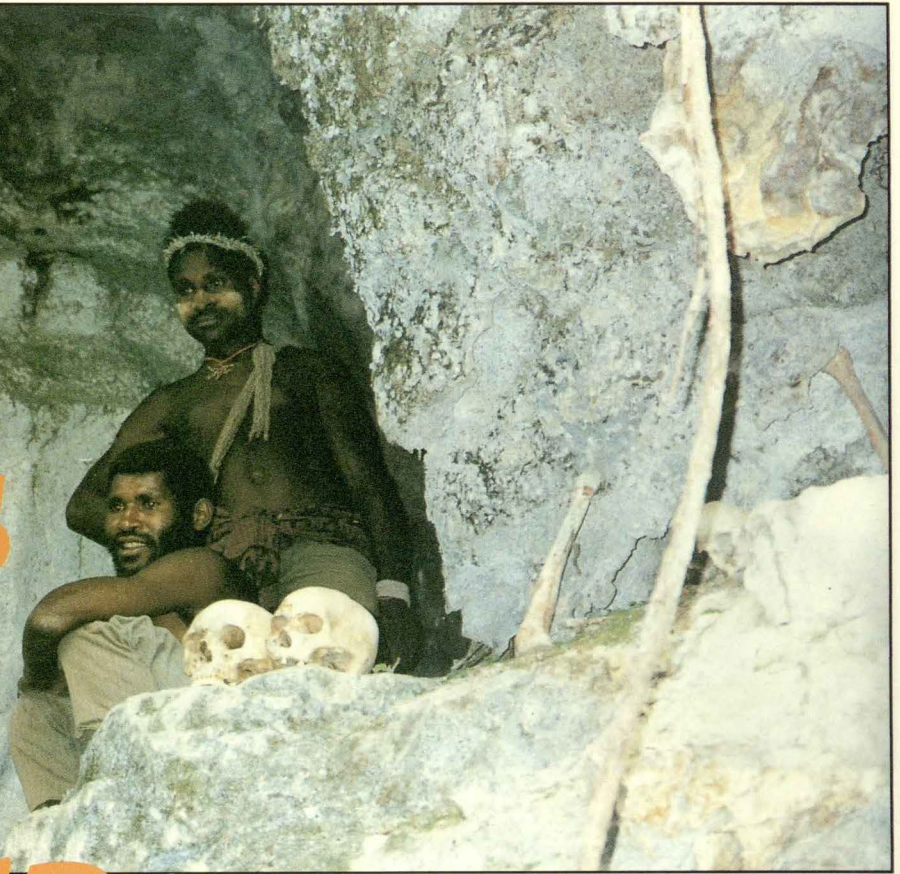
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The Skull Caves of Turaga

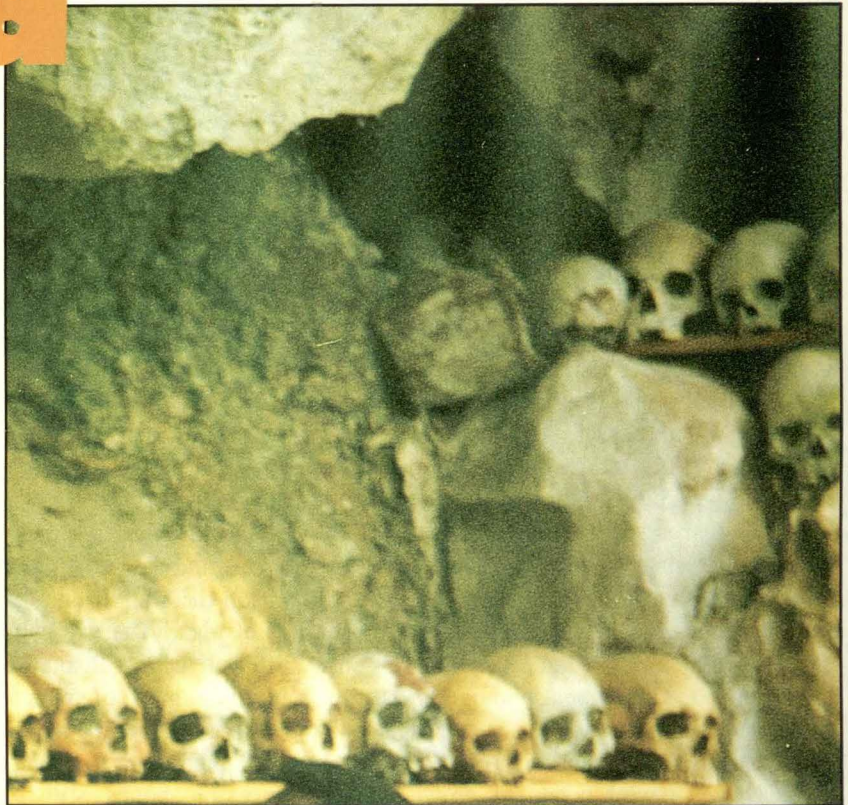


Story and photographs by
Tom Wagner and Holly Wardlow

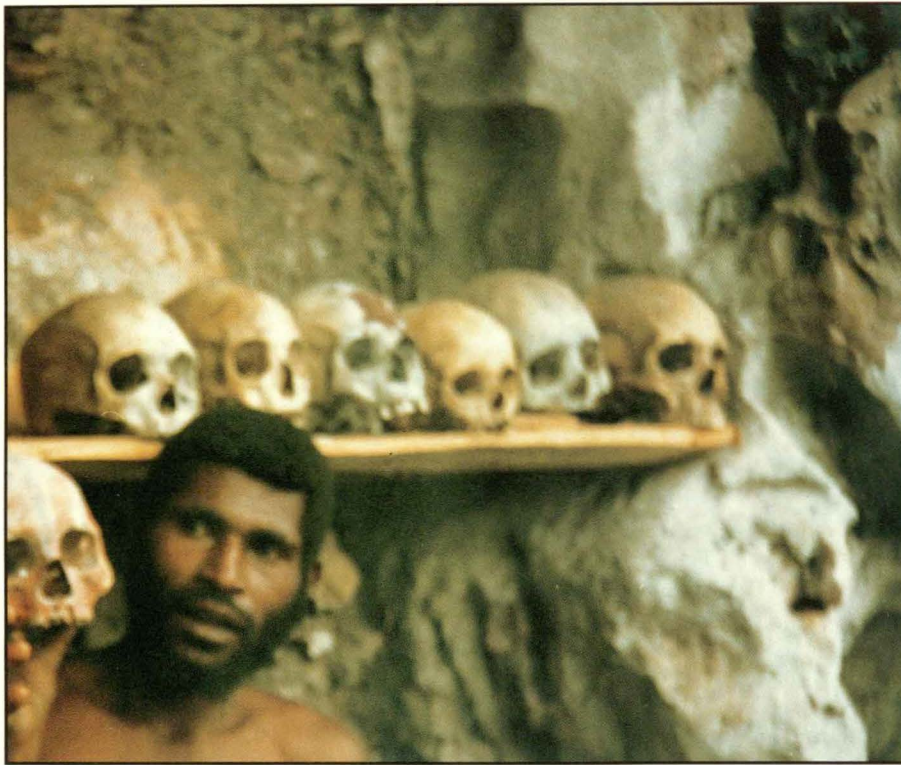
Looking for a chance to see some Highlands culture and get a little exercise? Try visiting the Skull Caves of Turaga. These burial grounds are located not far from the Tari airstrip and offer an excellent way to experience Huli culture first hand.

History

The Skull Caves are shallow limestone caves that are the *kebe anda* (ancestral burial grounds) of the Wenani clan of the Huli people. In the past, the Huli placed the bones of their dead in caves in order to maintain contact with their ancestors' spirits. This practice also provided a tangible record of clan genealogy, very important to the Huli, and prevented desecration of the bones by foraging animals. To prepare the bones, corpses were placed on raised platforms until all the flesh had decomposed. The skeletons were then cleaned and the bones were placed in caves.



The Huli believed that a person's spirit resided in the skull, which they would separate from the skeleton and sometimes paint in vibrant colours. Ancestral spirits were consulted for advice and aid, and angry spirits were thought to cause calamity and disease. Spirits were appeased through sacrifices of pigs.



The trip

A trip to the Skull Caves begins in Tari, home to the Huli wigmen. The wigmen are known for their traditional dress, which is perhaps the most flamboyant in Papua New Guinea (no small achievement!). Many people still wear traditional dress around town, and most enjoy being photographed. The Tari Catholic Church is also worth a visit, with its beautiful gardens and displays of religious scenes bearing Huli figures.

The Skull Caves are located at Turaga, approximately 10km west of Tari. Reaching the caves requires a 45 minute PMV ride and a one to two hour walk, depending on conditions. The terrain is relatively flat, but the tracks are often muddy and have numerous log crossings over small waterways. Your guides will assist your crossing if you ask. Simply say 'ki ngi', which means 'give me your hand'.

The walk offers an excellent opportunity to meet and photograph people and see highlands-style living. It passes through a number of gardens where *kaukau* (sweet potato) is grown using the same techniques employed by the Huli for hundreds of years. You might also see the construction of woven walled huts and the deep drainage ditches that are characteristic of the Huli.

The cave area is marked by the sacred and distinctive Guraya tree, with its limbless and leafless trunk extending high above the surrounding forest. The first government workers and missionaries in Tari amazed the Huli by using the wood from these trees to construct buildings and churches, including the Catholic church in town.

We began our visit by exploring two large caves, a few hundred meters long with wide passages. These caves did not contain any bones, but did have some interesting ceremonial areas. The bones are interred in smaller, less accessible caves often set high up in cliff faces. Our guides climbed up to these caves and showed us examples of bones and skulls found within. We also explored the entrances to some of these burial caves, and saw coatings of soot and paint on the walls from sacrificial offerings of pigs. The trip culminated on a cliff wall with a display of over thirty skulls, some of which were painted with traditional paint.

Although today the Huli bury their dead, ancestral bones still play an important role in their lives. In order to cure mysterious ailments or bad luck, for example, the Huli will disinter a parent's or grandparent's skeleton for cleaning and straightening. The caves themselves

also maintain their significance. Not long ago the Arua, another local clan, tried to cultivate land in the Skull Caves area. A tribal fight was narrowly avoided when the Wenani proved prior settlement of the area through knowledge of their ancestral bones residing in the caves.

Details

To arrange a trip to the Skull Caves, contact Jacko Kebaya through the Tari Women's Guest House, located next to the airstrip. Jacko will arrange for transport and guides, at inexpensive rates. A visit to the caves takes about seven hours, round trip from Tari. Plan to get dirty and wear appropriate foot wear. Also bring along plenty of water, a torch, some sun-block, a hat, a camera and lunch.

During our visit (in March 1997), construction of a guest house near the caves was well underway. We were told that visitors who spent the night would get to see more burial sites, and could be treated to a mumu. Legend has it that the lake next to the guest house was created by flying water that still has magical properties!

Visitors to the caves need to keep in mind that this is a sacred site to the Wenani. We were allowed to see and photograph the caves and skulls at close range, but were careful to obey our guide's directions and not touch any bones or walk into forbidden sacred areas.

Air Niugini flies to Tari from Port Moresby four times a week.

Tom Wagner is a lecturer in the Geology Department at the University of Papua New Guinea. He specializes in the study of volcanoes.

Holly Wardlow is an anthropologist at Emory University in the United States. She has worked in the Tari area for a number of years, studying the lives of Huli women.

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AUDIO ENTERTAINMENT

CLASSICAL Channel: 5

Flute Quartet in C, K285b
(Mozart) James Galway: flute
Tokyo String Quartet
RCA

The Maids of Cadiz (Delibes)
Yvonne Kenny: soprano
ABC

Overture: L'Italiana in Algeri
(Rossini) National
Philharmonic Orchestra
Conductor: Riccardo Chailly
DECCA



The Prophet Bird (Schumann)
Roger Woodward
RCA

Wedding March
(A Midsummer Night's Dream)
(Mendelssohn)
London Symphony Orchestra
Conductor: Andre Previn
EMI

Pavane (Fauré)
Steve Erquiaga: guitar
Windham Hill

Horn Concerto No 4 K495
(Mozart)
Radovan Vlatkovic: horn
English Chamber Orchestra
Conductor: Jeffrey Tate
EMI

Adagio Of Spartacus And Phrygia from 'Spartacus'
(Khachaturian)
Vienna Philharmonic Orchestra
Conductor: Aram Khachaturian
DECCA

Il Re Pastore KV 208 Aria
(Aminta) (Mozart)
Kiri Te Kanawa: soprano
London Symphony Orchestra
Conductor: Sir Colin Davis
Philips

POP Channel: 6

Together Again
Janet Jackson
VIRGIN

Stay
Sash! featuring La Trec
TRANSISTOR

Lollipop (Candyman)
Aqua
UNIVERSAL

Back To You
Byran Adams
A & M

Did It Again
Kylie Minogue
DECONSTRUCTION

Roxanne '97 (Puff Daddy Remix)
Sting & The Police
A & M

My Heart Will Go On
Celine Dion
EPIC

Tomorrow Never Dies
Sheryl Crow
A & M

Walkin' On The Sun
Smash Mouth
INTERSCOPE

Pash
Kate Ceberano
MUSHROOM

Summertime
The Sundays
PARLOPHONE

Too Much
Spice Girls
VIRGIN

My Body
LSG
ELEKTRA

Torn
Natalie Imbruglia
RCA

Meet Her at the Love Parade
Da Hool
KOSMO

EASY LISTENING Channel: 7

You Were Loved
Whitney Houston
SONY

MacArthur Park
Jimmy Webb
GUARDIAN

Beauty and the Beast
Celine Dion and Peabo Bryson
EPIC

Let's Just Kiss
Harry Connick Jr
COLUMBIA

Love...Thy Will Be Done
Martika
COLUMBIA

Angel
Annie Lennox
SONY

I Write the Songs
The Captain & Tennille
A & M

Don't Wanna Lose You
Lionel Richie
MERCURY

Higher Ground
Vanessa Williams
MERCURY

If It's Magic
Stevie Wonder
MOTOWN

All I Have To Do Is Dream
The Everly Brothers
COLUMBIA

The Air That I Breathe
K D Lang
WB

Don't Want To Be A Fool
Luther Vandross
EPIC



COMEDY Channel: 9

China Story
The Goons
PARLOPHONE

Fat Man's Prayer
Victor Buono
DORE RECORDS

Fancy Dress Ball
Noel V. Ginnity
LUNAR

Camping and Hunting
Ellen DeGeneres
ATLANTIC

Robin Hood
The Wonder Show of BBC Radio
BBC

Sitting Up With The Dead
Jerry Clower
MCA

House Selling?
Jasper Carrott
EMI

Abe Lincoln At Shiloh, With General Grant
Stan Freberg & David Ogden Stiers
RHINO

Stand Up - Excerpt 5
Jimeoin
MUSHROOM

Goodbye
Peter Cook & Dudley Moore
CUBE RECORDS



COUNTRY
Channel: 10

Don't Be Stupid (You Know I Love You)
Shania Twain
MERCURY

Postmarked Birmingham
Blackhawk
ARISTA

One Of Those Nights Tonight
Lorrie Morgan
RCA

Longneck Bottle
Garth Brooks
CAPITOL

Just Another Heartache
Chely Wright
MCA

Still In Love With You
Travis Tritt
WB

Nothin' But The Taillights
Clint Black
RCA

Your Own Sweet Time
Shanley Del
ROOART

On a Bus to St Cloud
Trisha Yearwood
MCA

Imagine That
Diamond Rio
ARISTA

Oh, Atlanta
Alison Krauss
ROUNDER

This Is The Outback
Lee Kernaghan
EMI

Just Between You and Me
The Kinleys
EPIC

You And The Mona Lisa
Shawn Colvin
COLUMBIA

Mr Ambivalent
Loudon Wainwright III
VIRGIN

What If I Do
Mindy McCready
BNA

Come Some Rainy Day
Wynonna Judd
CURB

CHILDREN'S
Channel: 11

The Elves & The Shoemaker
Dragontale
MONKEY BAR MUSIC

Jack And The Beanstalk
Bob Howard and Cast
METRO

...The Adventure Begins/In My Little Fishing Boat
Monica Trapaga
BMG

Winnie The Pooh and Tigger
James Stewart
CAMDEN

Silly Little Song
The Smurfs
EMI

Aladdin and His Magic Lamp
Uncle Bruce
RCA

When We Grow Up, How Horatio Became A Dentist
Horatio, The Horsie-O
METRO

Old Steam Train
Don Spencer
ABC

Madame Cholet's Picnic Party
The Wombles
BBC

Baby Face
The Muppets
ASTOR

PAPUA NEW GUINEA
Channel: 8

Kobiai
Mailu village (Magi)
Central Province

[Panpipes]
Gomri village (Chimbu)
Chimbu Province

Sore Mama
Rock band by Cicilia 'Zenna Greg'
Morobe Province
Chin H Meen Recordings

Uuyambe
Kilalum village (Sulka)
East New Britain Province

Awalif
Ilahita village (South Arapesh)
East Sepik Province

That day is coming closer
Sonoma Adventist College Choir
Recordings by TCPNG

Kaapaumma
Iraabo village (Usarufa-Auyana,
Usarufa dialect)
Eastern Highlands Province

'Iabuti'
Irelya village
Enga Province

Papa Paulo
Harahara Band of Miaru
Gulf Province
Walter Bay Company Recordings

Kanipu ivi
Karurua village (Purari)
Gulf Province

Gunal
Gohe village (Mawan)
Madang Province

PAPUA NEW GUINEA
Channel: 8

Vuvu Ialire
Rock Band by Narox
Pacific Gold Studios Recordings

Kasama
Kepara village (Hunjera)
Oro Province

Wakuwko
Malasanga village
Morobe Province

Pipa Man
City Hikers Stringband of
National Capital District
Kalang Recordings

Tatarore
Waidoro village
Western Province

Gawa
Walete (Huli)
Southern Highlands Province

E Pain Ta
Riwo Bamboo Band of
Madang Province
Kalang Recordings

Sawo
Kwomtari village (Kwomtari)
West Sepik Province

Twigul 'Vasu korekore'
Voniskopo village (Hahon)
North Solomons Province

Iurusalem
Gospel Band by Exiles Gospel
of Rabaul
Pacific Gold Recordings

Leleki
Patsui village
Manus Province

*Channel 8 recordings compiled by
Music Department Institute of Papua New Guinea Studies*

PUZZLE ANSWERS from Pages 54 and 55

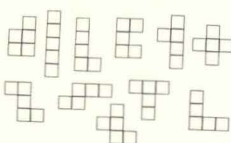
CHANGE

PIG, PEG or PIN, PEN, HEN
CAT, COT, DOT or COG, DOG
BOY, BAY, MAY or BAN, MAN
PIE, PIT, PUT or NIT, NUT

MAN WORDS

mane, human, Tasmania,
Roman, magnet,
mandarin, many, remain,
mean, command

SQUARES



WORD LIST

alto, bike, both, clad, clan, claw, clog, coal,
coat, cola, colt, cowl, data, dawn, dial, dike,
glad, glow, goad, goal, goat, gown, hobo,
joke, laid, lake, land, lath, lawn, load, loan,
logo, oath, take, tale, talk, wake, walk, wand

MIND BENDERS

1. Tercentenary — 300th anniversary or its celebration
2. The youngest band member will receive K200.
3. I am Kia's daughter.
4. Add the straight line to the top of the '1' in '10'
15 TO 5. On a clock face, fifteen to five is 4:45.
5. His younger daughter received more — K4,000
more than the older daughter.
6. The answer is zero.
7. The probability is 1 in 132,600 $\frac{1}{52 \times 51 \times 50} = \frac{1}{132,600}$

CRYPTO-SPORTS

TRACK AND FIELD:
cross-country,
finish line, high jump,
pole vault, shot put,
marathon, hurdles,
sprint, javelin
TENNIS: break point,
clay court, backhand,
drop shot, baseline,
footwork, service,
ballboy, double fault
HOCKEY:
defenseman, hat trick,
body check, face
mask, linesman,
zamboni, forward,
goalie, penalty box

FEATURE FILMS

International flights:
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to Port Moresby

MARCH

Red Corner



Genre: Action Drama Rated: R
From: MGM 119 minutes

Jack Moore is a smooth and savvy entertainment lawyer who travels to China to broker a multi-billion dollar television deal. While celebrating the successful negotiation, he meets a beautiful young Chinese woman — only to wake the next morning with her dead and him accused of her murder.

Featuring: Richard Gere, Bai Ling
Director: Jon Avnet
Producer: Jon Avnet, Jordan Kerner, Charles Mulvehill

Conspiracy Theory



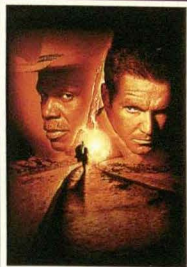
Genre: Action Rated: R
From: Warner 135 minutes

Jerry Fletcher is a conspiracy-obsessed cabdriver who thinks he has a connection to a Justice Department attorney named Alice Sutton. He keeps trying to warn her about impending conspiracies, even though she gently but firmly dismisses his concerns. But Jerry has real fears about his past — even though he can't remember.

Featuring: Mel Gibson, Julia Roberts, Patrick Stewart
Director: Richard Donner
Producer: Joel Silver, Richard Donner

APRIL

Switch Back



Genre: Action/Thriller
Rated: R
From: EIM
113 minutes

A relentless FBI agent, Frank LaCrosse, steps outside his job to find

the brilliant, but nameless, serial killer who kidnapped his son, the latest move in a vicious game of cat and mouse. For over a year he has been tracking the murderer across the country, but when the stakes become personal, he is removed from the case. Against orders from the Bureau, the agent continues his deadly manhunt.

Featuring: Dennis Quaid, Danny Glover, Jared Leto
Director: Jeb Stuart
Producer: Gale Ann Hurd

Home Alone 3



Genre: Comedy
Rated: PG
From: Fox
103 minutes

An all new cast is featured in this third installment of the Home Alone series

which grossed over \$450 million worldwide. Four spies have stolen a top secret microchip from the Air Force. To get it through customs, they stash it in a remote-controlled toy car which ends up in our hero's hands — seven-year-old Alex.

Featuring: Alex D Linz, Olek Krupa, Rya Kihlstedt, Kevin Kilner
Director: Raja Gosnell
Producer: John Hughes, Richardo Mestres

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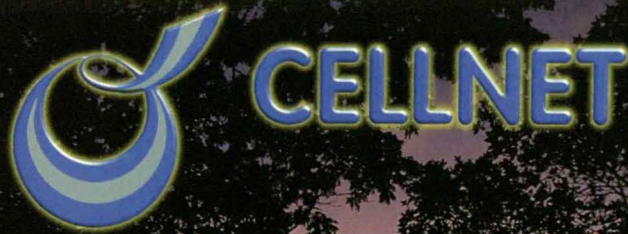
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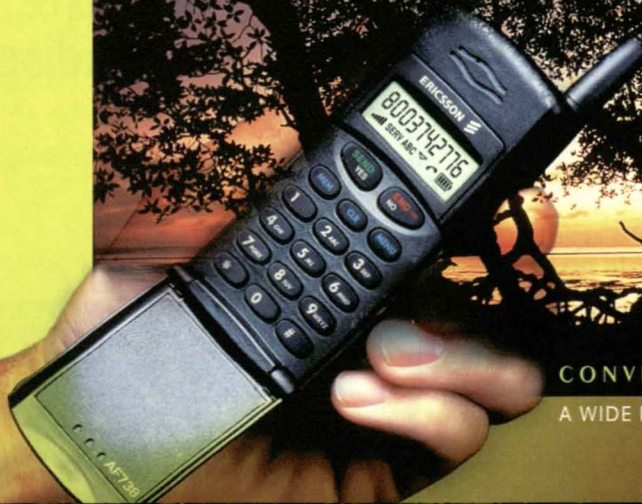


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Channels 1 and 2



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Richard Archbold, Birdman Aviator

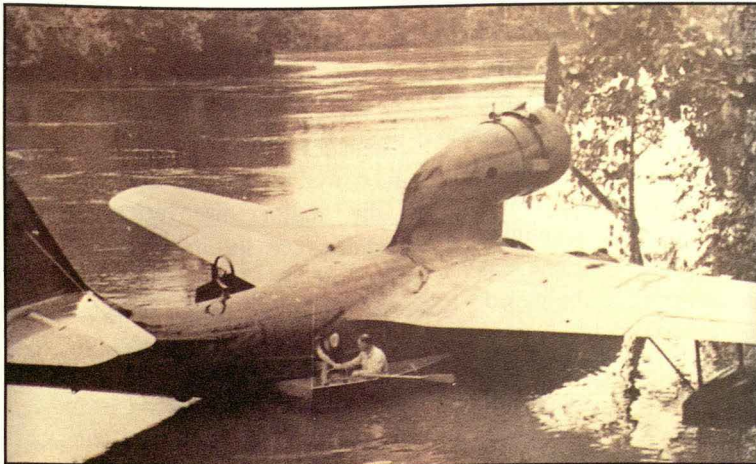
Story by Eric Lindgren

Richard Archbold gazed from the left hand window of his amphibian *Kono* and saw the sluggish waters of the mighty Fly River beneath him. He was piloting a Fairchild 91, a high-wing amphibian with the single motor towering above the cockpit.

In February 1933 Archbold made his first expedition to New Guinea Island in the company of botanist Leonard J. Brass and ornithologist Austin L. Rand. They worked for the prestigious American Museum of Natural History (AMNH) in New York, one of the world's

foremost museums and rivalling its counterpart, the British Museum of Natural History in London. Where the British Natural History Museum dominated the biological exploration of New Guinea during the nineteenth century, the American was to the forefront in the twentieth century.

This 1933 expedition centred on the area between Mt Yule and Mt Albert Edward in Papua. Archbold, as the mammalogist, had the responsibility of collecting and preparing mammals for the AMNH. There, scientists would study them, work out their place in the web of life, and store them as a permanent reference collection of the wonders of life on earth.



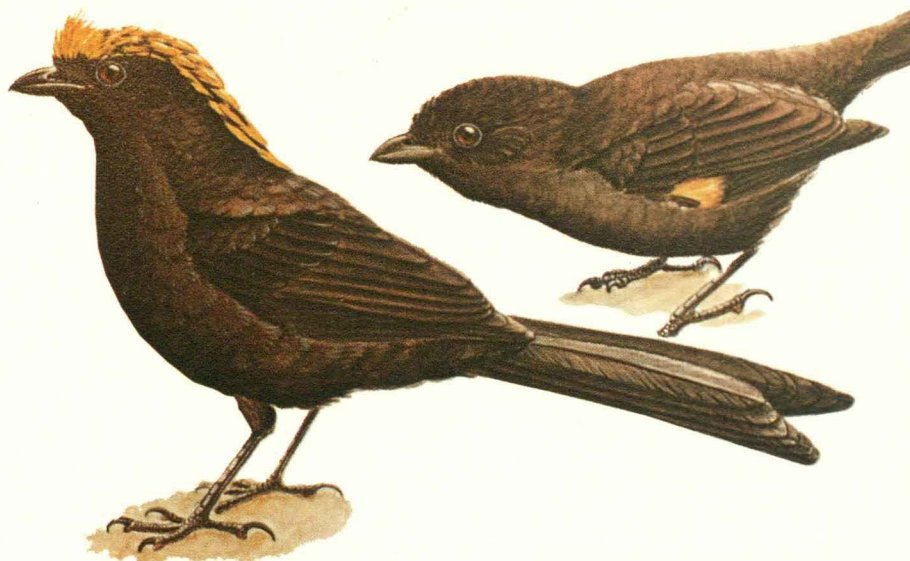
Left: At Palmer Junction on the Fly River, Kono, the Fairchild 91 Amphibian used by the 1936-37.

Archbold Expedition to the Fly River area. (Photo from Sinclair 1978 Wings of Gold)

Below: Map of areas visited by the seven Archbold-inspired expeditions 1933-1964

(Photo from Encyclopaedia of Papua New Guinea, 1972)





Collecting to altitudes of 3600m, in alpine woodland, in elfin forest and in the high grasslands, Archbold, Rand and Brass covered country which had been explored biologically, even though somewhat superficially, by the early Administrator (1888-1898) of British New Guinea, Sir William Macgregor. Scant collections had also been made in a similar area by the early naturalist-collectors such as Andrew Goldie and Henry Ogg Forbes.

The trio collected for most of 1933 then moved to the Oriomo and Binaturi River region of the Western Province in Papua. They collected here for three months in a habitat quite unlike their previous highland experience. The three scientists appreciated the differences and formulated the plan for a second longer expedition to these lowland sites.

That first expedition had crystallised two matters in the minds of these men: New Guinea held the last of the great unknown biological systems of the world; and that to facilitate exploration an easier means of transport was needed. Thus, upon their return to America, Archbold vowed that future expeditions would use an aeroplane. That they had collected nearly 20,000 specimens for the Museum during the 1933-34 expedition no doubt helped sway the Trustees when they said they wanted to go back. Approval was readily granted and so commenced the long association between the AMNH and Papua New Guinea, with Richard Archbold as the catalyst and Leonard Brass as the prime participant.

Kono, the Fairchild, was bought in 1935. Fortunately Archbold came from a wealthy family who were prepared to support the unfolding of this biological wilderness. The aeroplane was chosen by Archbold, a certificated pilot. It was claimed to be the biggest single engine amphibian available at the time and was one of only six produced in the world. It was powered by a Wright-Cyclone engine, later to become famous as one of the aircraft engines that helped win World War II.

Archbold gazed upon the Fly, seeking a place with no disturbances in the water telling of hidden snags. The party had selected an area north of the junction of the Fly and Palmer Rivers as the site for the expedition. With care he set the plane down. Thus began the second of seven expeditions which were to bring scientists of the American Museum of Natural History to Papua New Guinea over a period of three decades, interrupted by the War years.

Top: Male Archbold's Bowerbird has the golden crest which is used in displays. The female bird is on right. (Photo from Birds of New Guinea)

Right: Illustration of *Rattus* skulls (Photo from Some Muridae of the Indo-Australian Region, Bull Am Mus Nat His Vol 2, 1936)

The seven expeditions were:

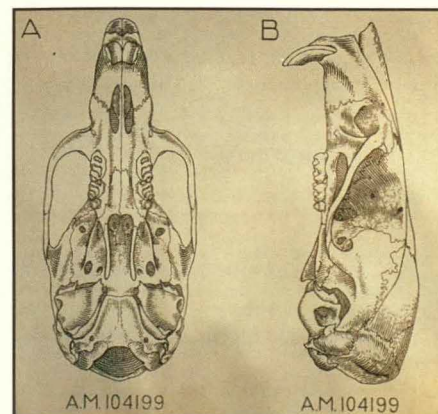
(i) 1933-34, from Yule Island to Mt Albert Edward, with Archbold, Brass and Rand.

(ii) 1936-37, in the Fly and Wassi Kussa Rivers flatlands. This time Archbold, Brass and Rand were joined by G H H Tate as mammalogist and L H Willis in charge of logistics. The *Kono* was used for transport.

(iii) 1938-39, based at Hollandia. This was a joint Netherlands-American expedition to explore the Snow Mountains and interior highlands of Dutch New Guinea, the Grand Baliem. Archbold and Brass were accompanied by W B Richardson, mammalogist and J Toxopeus, entomologist, E Meijer Drees, forester and C Veersteegh, assistant forester.

There were 56 military personnel with the scientists to ensure their safety in this unknown pre-war world and to assist in the logistics of penetrating a high, cold, rugged, wet, difficult environment. One of the major discoveries of this expedition was the introduction to the valleys of the Baliem and Idenburg Rivers. The population of subsistence hunter-gatherers had not met outsiders before. Of course the 631 new species of plants, including five new genera, plus the plethora of new birds and mammals were interesting too! A new plane, the *Guba* (Motu for cyclone) had been invaluable. A PBV-2, this was the twin-engined predecessor of the indomitable PBV-5 Catalina used in search and rescue in the same waters during WWII.

World War II disrupted the AMNH expeditions. Millions of troops, mountains of food, unbelievable numbers of planes, trucks, ships, guns and the paraphernalia of war propelled Papua New Guinea, and indeed the whole world, into the modern era.



(iv) 1953, to Goodenough Island and the mainland near Cape Vogel in eastern Papua. Archbold was not present and did not return to Papua New Guinea again. In the expedition were Brass, leader and botanist, H M van Deusen, mammalogist, G M Tate, general collector and K M Wynn, logistics. Fifty new species of plants were identified in the 3445 specimens collected.

(v) 1956, to Normanby and Fergusson Islands and extensively in the Louisiade Archipelago. Brass again was leader and botanist, R F Peterson mammalogist, L J Evennett logistics. Collected were 2657 specimens of plants, with one new genus and 21 new species.

(vi) 1959, to the eastern highlands of Territory of Papua and New Guinea from Mt Wilhelm east to Mt Kaindi with Brass, leader and botanist, van Deusen mammalogist and J D Collins for logistics. Of the 3625 plant specimens 27 new species were described.

(vii) 1964 to the Huon Peninsula with van Deusen leader and mammalogist, S A Grierson general zoologist and photographer, R G Hoogland botanist and K McGowan logistics.

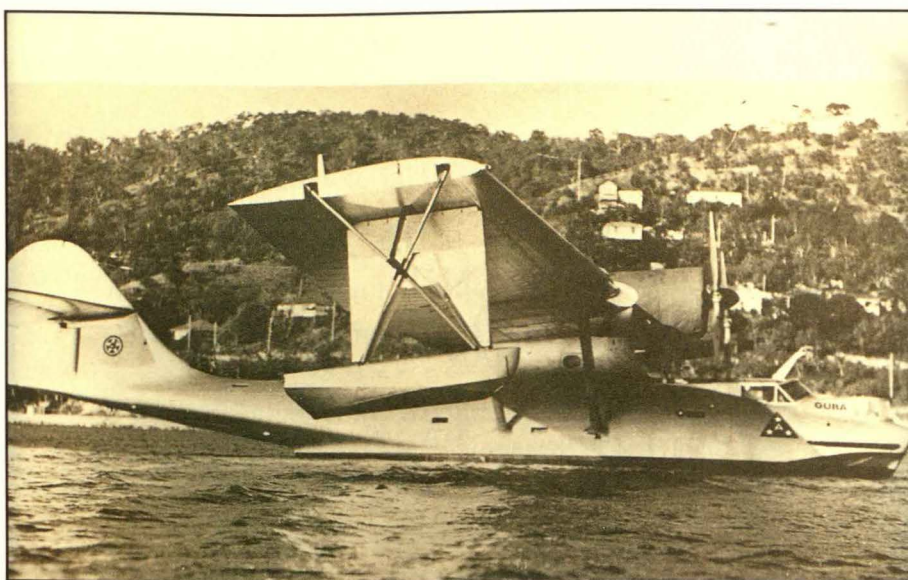
Though the post-war expeditions seemed to concentrate on plants, in fact hundreds of scientific papers on all aspects of biology were published. The majority of these originate from the AMNH in their celebrated American Museum Novitates or Bulletins.

Richard Archbold was a birdman aviator who loved studying birds as well as the mammals in which he trained at University. He left a lasting legacy to Papua New Guinea in the form of an unsurpassed collection of the biological heritage of one of the richest natural history environments the earth has known.

Many new species were named after Archbold, the most extraordinary is probably Archbold's Bowerbird. This is found only in two small areas of high mountain forest — from Mt Giluwe and Tomba southwest of Mt Hagen, and in the upper Baliem Valley in Irian Jaya. All black, with a brilliant golden-yellow crest, the male bowerbird clears an area on the forest floor which he decorates with fine orchid fibres and beetle shells. Here he displays to the drab female, flashing the yellow crest to impress her.

Archbold continued his interest in things zoological. In 1941 he established the Archbold Biological Station near Lake Placid, Florida where he lived until he died in 1976. Many biological research projects and educational courses are conducted amid the 5000 acres of lush Florida marshes and in the nearby 10,300 acres of the MacArthur Agro-ecology Research Center.

Guba at Port Moresby, the Consolidated PBV-2 Amphibian used by the 1936-Archbold Expedition to the Hollandia (Djayapura) area Dutch New Guinea (Irian Jaya)
(Photo from Sinclair, 1978 Wings of Gold)



For more information on these projects, visit their home page at:

<http://www.archbold.station.org/index.html>
or use email:

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New Guinea Expedition, Fly River Area, 1936-7 (1975) by Richard Archbold and Austin Loomer Rand is available on special order from:
<http://www.amazon.com> (US\$52.50).



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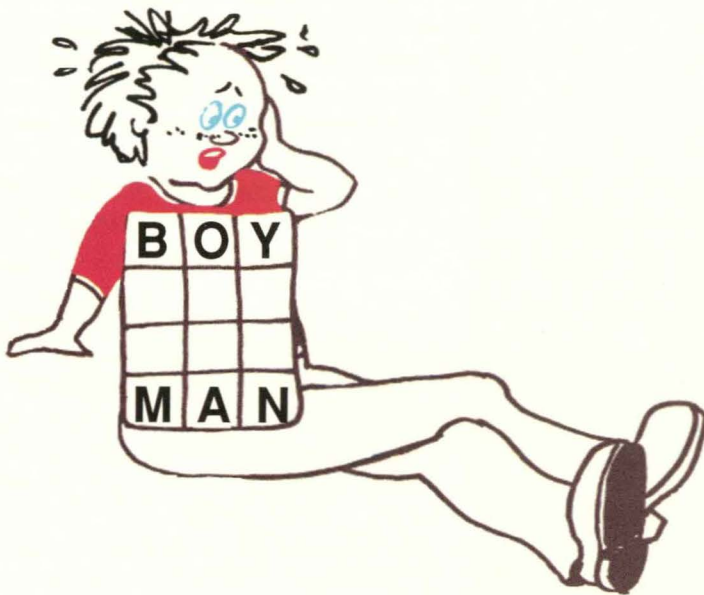
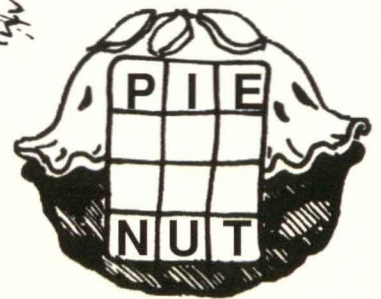
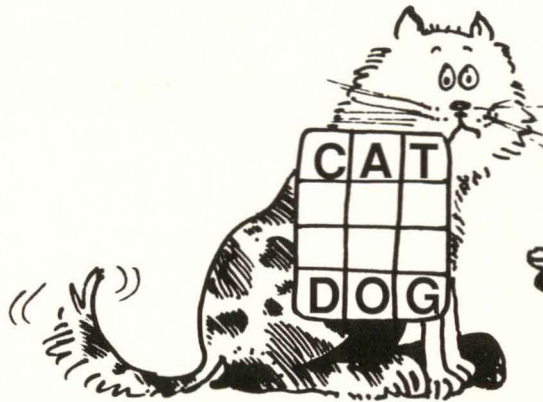
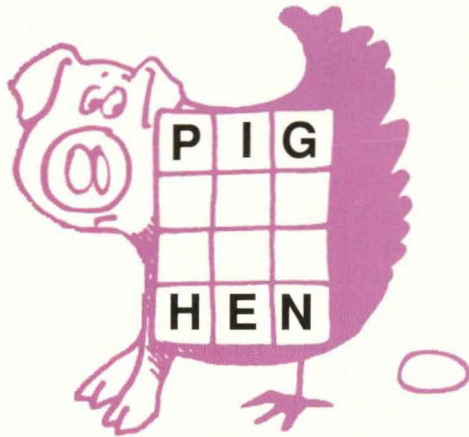
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Puzzles for the young at heart

CHANGE

Change one letter at a time to form another word, so that in three moves you have changed pig to hen, cat to dog, pie to nut and boy to man.



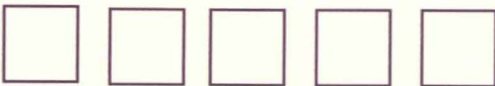
MAN WORDS

Put letters in the blank spaces to make words.

1. MAN _
2. __ MAN
3. ___ MAN ___
4. __ MAN
5. MA _ N _ _
6. MAN _ _ _ _
7. MAN _
8. __ MA _ N
9. M _ AN
10. ___ MAN _

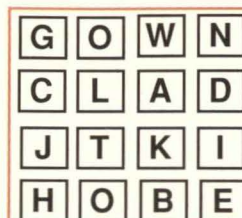
SQUARES

How many ways can these five squares be combined, edge to edge? (No mirror images allowed.)



WORD LIST

How many common 4-letter words can you find in the diagram by moving from letter to adjacent letter up, down, forward, backward and diagonally? A letter may be used more than once in a word, but only after leaving it and coming back. Foreign words, abbreviations and words beginning with a capital letter are not permitted.



Answers are on page 48.

A little tougher!

CRYPTO SPORTS

Each crypto sports family is a list of related words in code. Each family has its own code. When you have identified a word, use the known letters to help decode the other words in the family.

1. TRACK AND FIELD

Example:

R B M T A M - *discus*
 T H K M M - T K A S J H E
 C B S B M F D B S W
 F B N F I A X L
 L K D W U Q A D J
 M F K J L A J
 X Q H Q J F K S
 F A H R D W M
 M L H B S J
 I Q U W D B S

2. TENNIS

Example:

W F J G F - *deuce*
 E Z F Y T K L P Q X
 G I Y D G L J Z X
 E Y G T M Y Q W
 W Z L K H M L X
 E Y H F I P Q F
 U L L X V L Z T
 H F Z R P G F
 E Y I I E L D
 W L J E I F U Y J I X

3. HOCKEY

Example:

Q - M Q E S - *T-stop*
 K H Y H G M H R J G
 C J Q Q V D T U
 F E K L T C H T U
 Y J T H R J M U
 I D G H M R J G
 B J R F E G D
 Y E V O J V K
 W E J I D H
 S H G J I Q L F E A

MIND BENDERS

- Here's an analogy to make you search for the answer:
 100 is to 300 as 'centenary' is to? _____
- A fee of K2,000 is to be divided among five band members so that each gets K100 more than the next younger band member. How much will the youngest band member receive? _____
- If Kia's daughter is my daughter's mother, what am I to Kia?
 Grandmother? Mother? Daughter? Granddaughter? _____
- By putting one straight line on a number, turn the following three numbers into 4.45:
 15 10 5 _____
- A mathematician's will stated that his wife should get one-third of his estate, his son one-fifth, his older daughter one-sixth, and his younger daughter K9,000. Who received more, his older daughter or his younger daughter? _____
- Here's a challenging puzzle for those who remember their algebra. Evaluate the following:

$$\left(\frac{x+y}{x^2+y^2} \times \frac{x}{x-y} \div \frac{(x+y)^2}{x^4-y^4} \right) - x$$

- The probability of drawing the Ace of Spades from a deck of 52 playing cards is 1 in 52.
 What is the probability of drawing the Ace, King and Queen of Spades on three consecutive draws?

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Natural Spray 50ml
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Guy Laroche
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50 ml spray
K30.00

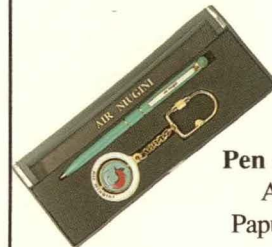
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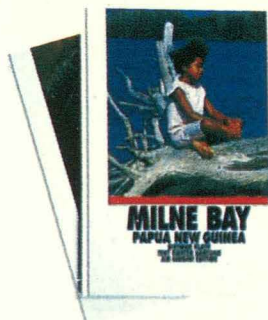
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Martell VSOP 700ml
The choice of Louis XIV
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1.125 litre
Made to the same secret family recipe for over 130 years
K12.00

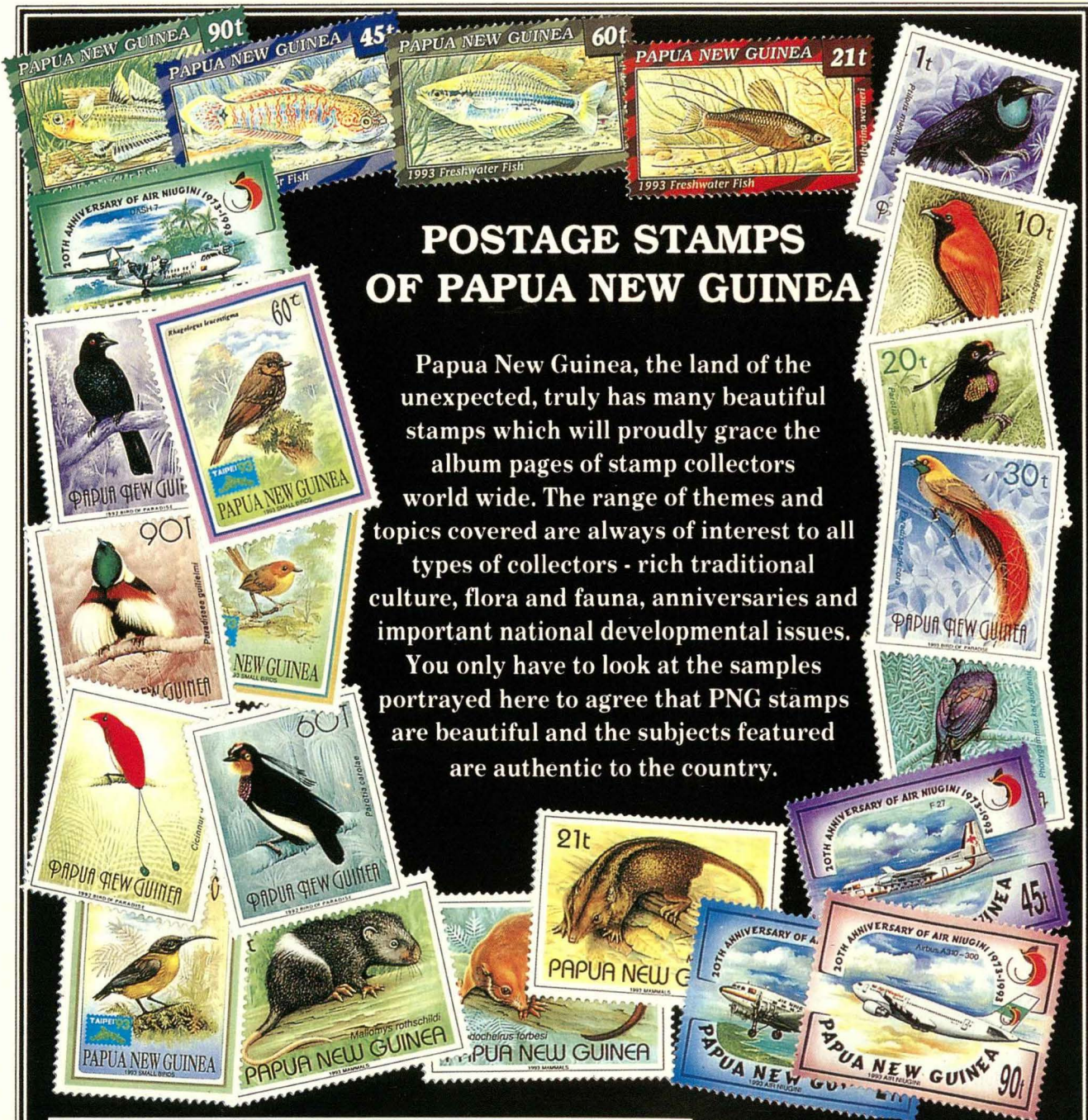


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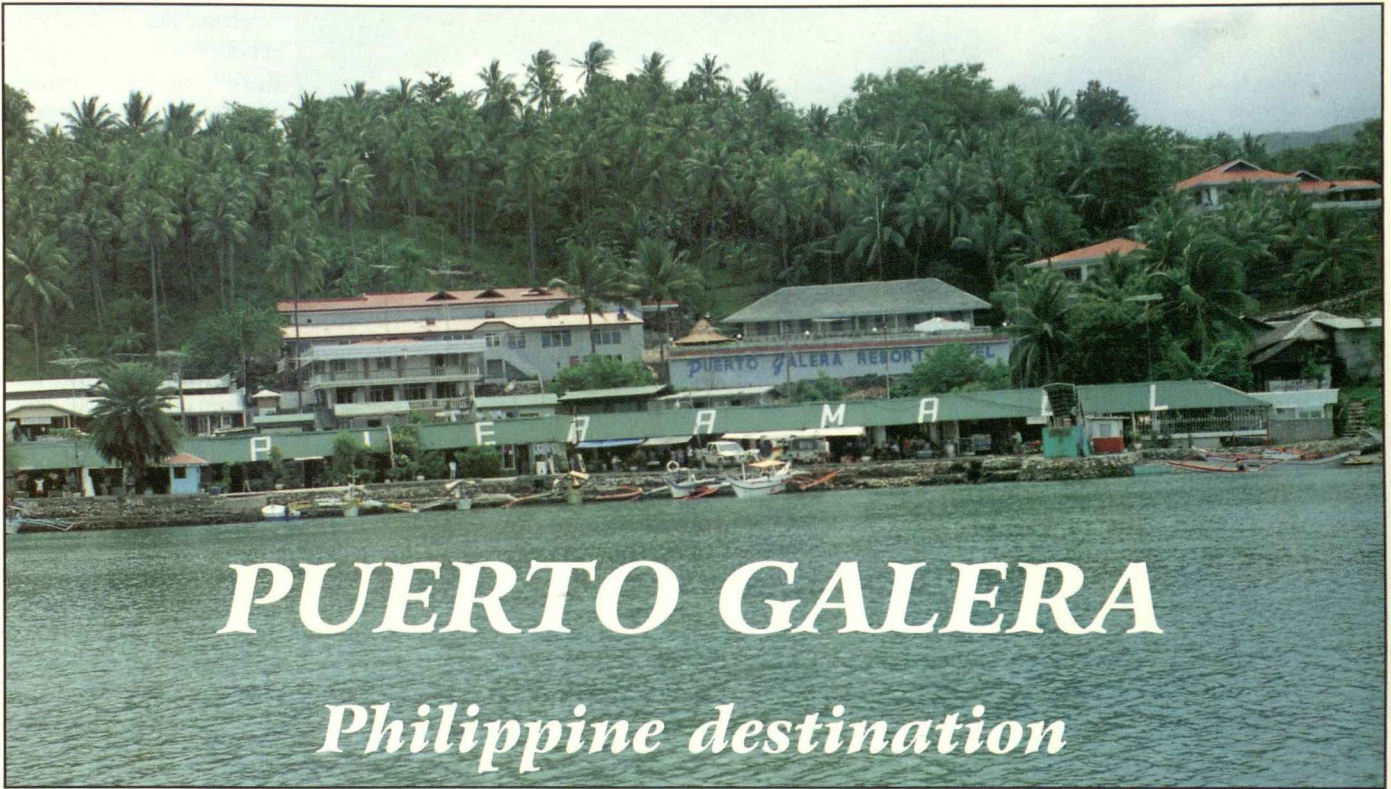
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Story and photographs by Rees Thomas

Nestled on the north western end of Mindoro, seventh largest of the Philippine islands, is a group of isolated coves and inlets collectively known as Puerto Galera.

Just 150 kilometres to the south of Manila the area is easily accessible by road and a leisurely ferry journey from Batangas City on the main island of Luzon. From Puerto Galera township visitors use either the regular jeepney service or a fast outrigger canoe (banka) to take them to the beach resort of their choice.

Resorts developed at many of the dozens of bays, coves and inlets provide wonderfully picturesque scenery and peaceful surroundings catering for tourists throughout the year. Several hundred years ago Spanish Galleons sheltered from typhoons in this area giving rise to its present day name.

Puerto Galera offers some of the most protected and spectacular diving sites in the region and dive centres provide access to an underwater paradise for both the experienced diver and those who may decide to complete a PADI

scuba course during their stay. Apo Reef National Marine Park, 32 kilometres west of Mindoro has one of the world's most developed marine ecosystems and lies in a channel up to 27 metres deep. Astounding divers with the diversity of its marine species and the beauty of its white sandy bottom, the reef divides the area into two lagoons with stunning coral beneath the emerald waters of Mindoro Strait.

Sabang Beach, Coral Cove, White Beach, Coco Beach and other equally well know resort destinations all within 10 kilometres of the Puerto Galera main wharf are favourites with Swiss, German and other European tourists who return year after year to enjoy the simple pleasures of a very unspoilt locality.

The Mindoran lifestyle is relaxed with few pressures and is evident in the carefree nature of the locals who are friendly and polite in their dealings with all foreigners. In restaurants and the many small stores that provide everyday needs for locals and tourists the atmosphere is always pleasant, prices very reasonable and the availability of products and services often surprising for a relatively isolated community.

Top: Arriving at Puerto Galera Below: Bankas at the main wharf





Shops along the Puerto Galera Mall

Though nowhere near the scale of large cities there is a night scene for those who enjoy the bright lights and beat of disco music. Sabang Beach supports several bars that remain open until the early hours. A number of nicely appointed restaurants specialise in serving seafoods and local delicacies but international cuisine is always readily available. The Tamarind Restaurant, right on the water's edge, serves the most delightful *Sinigang na Hipon*, a slightly sour shrimp and vegetable soup which prepares the palate for the main courses to follow.

Captain Greg's on the beach is the centrepiece of Sabang as well as providing a convenient meeting place for a leisurely breakfast and meals throughout the day. It is also one of the best known diving centres in the Philippines.

Coral Cove just around lighthouse point from Sabang is the idyllic setting for another resort owned by Bill Scaines who visited Puerto whilst employed by Elcom in Papua New Guinea. Bill simply could not resist the magnetism and after completing his contract sailed his yacht back to this paradise in the South China Sea.

Access to Coral Cove is easiest by banca from the main wharf and takes around 15 minutes. By jeepney the land

trip would take half an hour. Fishing, sailboarding and diving are the main activities although simply relaxing under the shade of a coconut tree is high on the priority for many folk who visit.

Sixteen well-appointed motel style rooms and a large elevated bungalow are reasonably priced as are the excellent meals available from the resort restaurant.

Sabang has a variety of accommodation, ranging from budget priced rooms with separate toilets and shower facilities to fully self-contained holiday units. Restaurants scattered along the beach front or within easy walking distance of tourist accommodation provide flexibility to choose the style of vacation that suits your individual needs and budget.

My most enjoyable visit to Puerto was idled away at The Terraces Garden Resort (photo below) with its individual bungalows scattered over a steep

escarpment rising directly from Sagang beach. With breathtaking views from Verde Island Passage towards Batangas City the resort is ideally situated.

It offers complete peace and tranquillity with long walks on pathways through villages and coconut plantations, virgin bushland and along white sandy beaches. The faint sounds of village life, the crow of a rooster, the sounds and smells of the sea with gentle waves lapping on a coral beach, murmur in the distance.



Without the bustle of traffic and with the only telephone at reception, relaxation was complete and the cost almost embarrassingly cheap.

It is not necessary to book ahead for there is ample accommodation throughout the area and local tour agents meet buses from Manila that connect with the SI-KAT ferry service. Armed with photographs and brochures of their individual resorts these agents provide all information on the area and book your holiday during the one hour cruise to the island paradise.

For the adventurous traveller it is also possible to ride in one of the fast bankas that ply between Batangas City and Puerto Galera. This is much quicker than the ferry but a little less comfortable. However the fare is considerably cheaper and for those on a budget is not an unreasonable means of travel. Accommodation once again is easily arranged and the advantage is you can be taken directly to the resort of your choice.

The famous Filipino smile is no more evident than in oriental Mindoro where hospitality and genuine friendliness towards foreign tourists leave visitors with a very warm feeling when they finally have to depart on their homeward journey.

Travel Information:

Air Niugini operates Airbus A310 services twice weekly to Manila from Port Moresby departing on Monday and Friday.



Excellent divers, these small boys dive for coins thrown by tourists arriving at Puerto.

Coach and Ferry Services:

The Sunshine Run operates a coach service originating from the Centrepoint Hotel on A Mabini Street, Ermita, Manila. The coach departs the hotel promptly at 9am daily and connects with SI-KAT-1 ferry (photo on right) from Batangas City at 11.45am. Bookings and ticketing are arranged through hotel reception or travel agents.

For travellers who use regular public coach services the fares are much cheaper. Departures for Batangas City are from Manila terminals in Lawton Plaza or Passay City at regular hourly intervals.

Another ferry service departs Batangas Pier between 12 noon and 12.30pm. It is necessary to depart Manila not later than 9am to catch this service.



Accommodation:

There are several dozen resorts in and around Puerto Galera. Most of these are extremely economical and offer varying standards of accommodation.

The Terraces Garden Resort is well recommended and its owner Rosemarie Gerdftman can be contacted at Sabang Beach, Puerto Galera, Oriental Mindoro, Philippines. Cellular phone #312-840.



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LOCAL GOURMET FOOD - Potatoes

by Roslyn Morauta

Potato to a European is like *kaukau* to a Highlander or sago to a Kerema or Sepik. Given the central place of potatoes today in European diets, it seems incredible that they should have taken so long to be accepted. Cultivated in Central and South America 4000 years ago, the potato was brought back to Europe in the 16th century by Spanish conquistadors and Sir Francis Drake and Sir Walter Raleigh. But it took until the very late 18th century for it to become a popular food in Europe.

By the beginning of the 20th century there were over 1000 varieties of potato known and grown. Today less than 100 varieties are cultivated commercially, though most people have access to only a fraction of these. In Papua New Guinea, only a couple of varieties are grown. Most are left in the ground until fully grown, but to me the best potatoes available are the tiny new potatoes from Goroka or Hagen markets, steamed and then tossed with butter and fresh herbs.



Fish and Potato Bake

6 large potatoes, peeled and finely sliced
4-6 white fish fillets
300g prawns, peeled and deveined (optional)
1 glass white wine
olive oil
parmesan cheese
salt, pepper
chopped parsley (or dill)

Layer a baking dish with potatoes. Season with salt and pepper then sprinkle parmesan and parsley over the potatoes.

Place the fish and prawns on top, moisten with the white wine then put another layer of seasoned potatoes, cheese and herbs.

Pour on a little oil then bake for about 40 minutes until fish is cooked through and potatoes are crisp and brown on top.



Potato and Tomato Curry

500g potatoes, cut lengthwise
3 tomatoes, chopped
4 tbsp oil
1 tsp black mustard seeds
 $\frac{1}{2}$ tsp turmeric
 $\frac{1}{2}$ tsp chilli powder
1 tbsp lemon juice
1 tsp salt
 $\frac{1}{2}$ cup freshly grated coconut

Heat oil in frying pan and when hot, put in mustard seeds. As soon as they pop put in chilli powder, turmeric and tomatoes. Cook for about a minute then add 1 cup of water, lemon juice, salt and potatoes. Bring to boil then cover and simmer about 30 minutes. Add coconut and cook for 3-4 minutes, increasing the heat if sauce seems too thin.

Gnocchi

Have a buttered dish and the sauce (ragu, tomato, blue cheese or simple garlic butter) ready before cooking the dumplings.

1kg potatoes
325g flour
salt



Bring 3 litres stock or lightly salted water to the boil in a large pot in preparation for cooking the gnocchi.

Boil potatoes until tender, then drain and peel. Pass through a food mill onto a floured board, then sprinkle with salt. Work in flour gradually but deftly until well incorporated.

Roll mixture into a long rope and cut into 1cm pieces. Roll each piece across the curved side of a fork using one finger.

Drop some gnocchi into simmering water, allowing room to swell. As gnocchi rise to the surface (this takes a few minutes), lift out with a perforated spoon, drain over a pot then tip into buttered serving dish. Keep warm in oven until all gnocchi are cooked. Pour sauce over gnocchi and serve at once.



Rosemary and Potato Pizza

$1\frac{1}{2}$ teaspoons dried yeast
250g flour
 $\frac{1}{4}$ cup olive oil

Topping

3 small to medium, unpeeled potatoes, thinly sliced
 $1\frac{1}{2}$ tablespoons olive oil
2 cloves of garlic, finely chopped
2 tablespoons rosemary leaves
2 teaspoons salt

Combine yeast, a pinch of sugar & 100ml warm water in a small bowl. Cover and rest until frothy. Add yeast mixture & oil to flour and knead well, adding 1 to 2 tablespoons warm water if necessary. Form dough into a ball and place in an oiled bowl covered with plastic wrap. Leave until dough has doubled in size.

For topping, toss potato slices, oil, garlic, rosemary, salt & pepper gently in a bowl.

Punch down dough. On a lightly floured board roll dough out to a circle, leaving a raised edge. Place on pizza tray. Overlap potato slices over dough and brush with extra oil. Bake at 210°C for 40 minutes until potato is soft & golden.

Welcome!

Here is some helpful information

Getting Around in Port Moresby: At Jackson's Airport, which is 11km from the centre of Port Moresby, there are rental car counters, a bank and a duty free shop within the airport complex. Major hotels have a courtesy bus to and from the airport. Taxis have meters. Within the city, PMVs (public motor vehicles) cost 50 toea per journey.

Useful Port Moresby Numbers: Air Niugini Information Jackson's Airport 3273480; Reservations and Confirmation 3273555 (Domestic) and 3273444 (International); Tourism Promotion Authority 3200211; Police 000; Ambulance 3256822.

Getting Around Elsewhere: PMVs, taxis and hire cars are available in all major towns. All major centres can only be reached from Port Moresby by air or sea.

Currency: Papua New Guinea's unit of currency is the Kina which is divided into 100 toea. Exchange your money at Jackson's Airport or in banks which are open from 9am to 3pm, Monday to Thursday and until 5pm on Friday. Credit cards are accepted in leading hotels and shops.

Customs: Adults over 18 have a general allowance of new goods to the value of K250 and are allowed duty free:

- 200 cigarettes or 50 cigars or 250grams of tobacco
- One litre of alcohol
- A reasonable amount of perfume

Drugs, pornographic literature or video tapes, firearms and weapons are prohibited. Food items, seeds, spices, live or dry plants, animals, animal products and biological specimens such as cultures and blood need special documentation before they can be imported.

Taxes: A sales tax of between 3% and 7% is levied in some provinces and the National Capital District. K15 departure tax is payable at the airport or tax stamps can be purchased from post offices.

Languages: Although over 800 languages are spoken in Papua New Guinea, English is the language of education and commerce. Tok Pisin is widely spoken and Hiri Motu is common in Papua. The following phrases may be of use.

English	Tok Pisin	Hiri Motu
Good Morning	Monin	Daba namona
Good Afternoon	Apinun	Hadorai namona
What's your name?	Wanem nem bilong yu?	Oi emu ladana be daika
My name is...	Nem bilong me...	Lau egu ladana be...
How much is this?	Hamas long em?	Inai be hida?
Thank you	Tenkiu	Tanikiu

Time: Papua New Guinea is 10 hours ahead of GMT and in the same time zone as Eastern Australia. There is no daylight saving in Papua New Guinea.

Communication: ISD, STD and facsimile services are available in most areas. Large towns have public telephones. Phone cards can be used in some. Many rural areas have radio phones.

Driving: Valid drivers' licences issued in other countries are recognised up to three months after arrival. Vehicles travel on the left side of the road. Speed limit is 60kph in built-up areas and 80kph out of town.

Electricity: Electricity supply is 240 volts AC 50 Hz. Some hotels have 110 volt outlets for shavers and hair dryers.

Health: Water quality is within World Health Organisation standards in most towns. Bottled water is available. In rural areas it is advisable to boil water at all times. As malaria continues to be a health risk in the country it is advisable to take anti-malaria tablets two weeks before arrival, continue during your stay and for four weeks after departure. Use insect repellent and wear long-sleeved shirts, long trousers and shoes in the evening when mosquitoes are more active. Dentists, doctors and hospitals are in all major centres. Rural areas have health centres and aid posts staffed by trained health workers.

Dress: For most occasions, dress is informal and casual. Thongs, sandals and jeans are not allowed in some bars and restaurants. Lightweight clothing is suitable for coastal areas but a sweater or jacket will be needed in the highlands.

Restaurants: Western cuisine is available in hotels, restaurants, guest houses, lodges and village resorts. Port Moresby has several Asian restaurants. Some hotels especially in the provinces serve local food such as roast pork, chicken or fish with sweet potato, taro, yam, pumpkin, banana and greens cooked in coconut milk.

Tips: Tips are neither expected nor encouraged.

Shopping: Large stores and artifact shops offer a variety of goods for sale. Saturday is a half day for most shops and nearly all are closed on Sunday. Artisans sell their craft beside the roads or in markets. All markets sell a wide range of fruits and vegetables.

Cultural Events: Celebrations of traditional culture include:

June	Port Moresby Show
August	Mt Hagen Show
September	Hiri Moale Festival Port Moresby; Goroka Show
October	Maborasa Festival Madang; Morobe Show

Export Rules: Many artifacts, historical and cultural objects are prohibited exports. Others require a permit from the National Museum. Export permits for wildlife and animal products are issued by the Nature Conservation Division of the Department of Environment and Conservation.

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