

What's Up?

September 2000

A newsletter for kitefliers

No 65



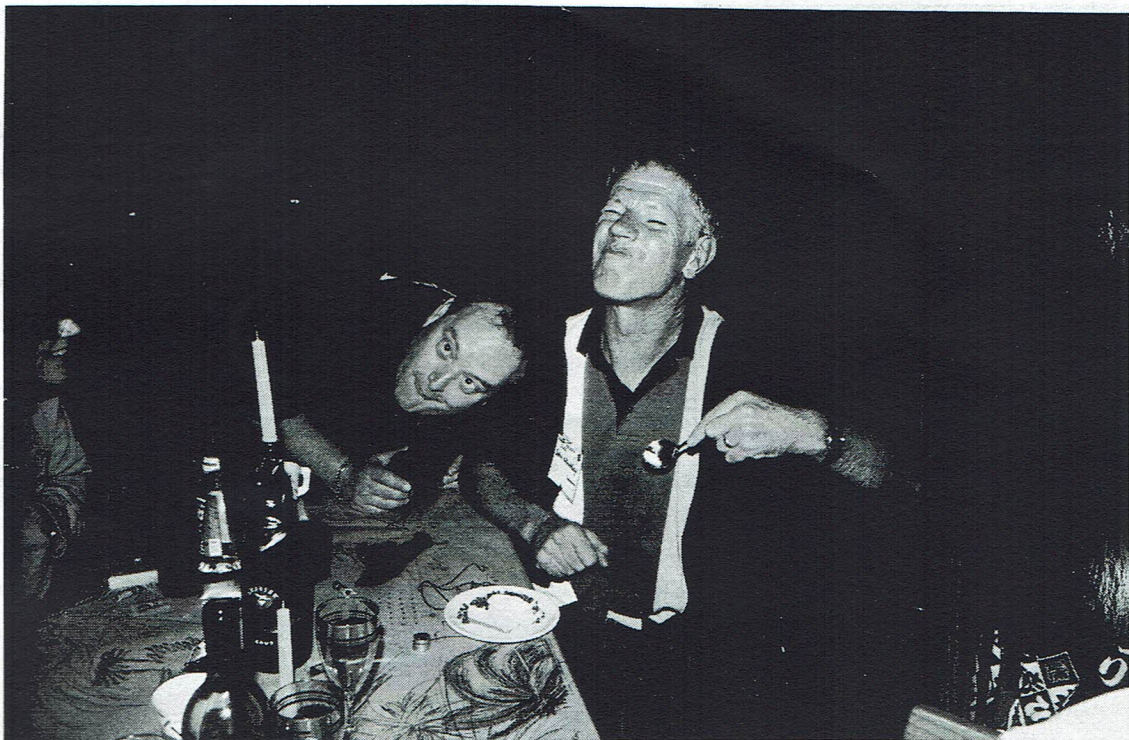
New Zealand Kitefliers Association Inc.

Cover Photo: Diana Hough Cats on a Rokkaku

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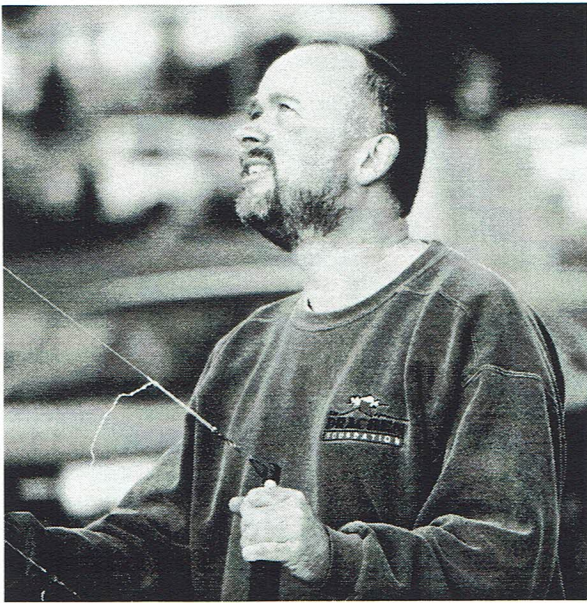
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Caption this photo. Please send answers to PO
Box 56 or Drachen@the.net.nz A small prize
will be given to the best caption.
Photo courtesy of Ted Howard.

Whitehead's Words



Well we are off for a holiday as soon as this is finished. Hopefully it will be a well earned rest. We are off to Jicin in the Czech Republic. A small town north of Prague, that has a festival of fairy tales. The only fairy tales I have are "The Ladies" series. (or is that dreams). We had just been to see Peter Lynn for a long weekend and he has just started producing Teddy Bear kites. So we had to have one to take with us. A lovely inflatable Teddy Bear with his honey pot as a drogue.

News from the web site. The committee has had a meeting and decided that the web site will proceed. We have viewed many other kite web sites and have made notes about what we want the site to say, and how it should be said. Three of the members of the committee have been on a course about web sites and HTML to help us design / create the web site.

The committee has decided that we will help finance the festivals mainly from proceeds of the preceding festival auction. This will be put toward the cost of registration. We have looked at bringing an overseas flyer to the festival and have decided that for the money we can do more for the members by helping this other way. It was felt that an overseas visitor would not have enough time to impart their wisdom in our already full schedule of events at an annual festival.

The next issue to be tackled by the committee

is membership. As an incentive it has been decided that if a member introduces three new fully paid up members then the members subscription for the following year will be remitted.

Whats been going on in the Wellington scene. Well last month we had a glorious day at Ngatitoa Domain. There were a few soccer players around with the inevitable questions of "how high does it fly" "how many kites have you got" "did you really make it", but once the kites got flying it was a great sight. The month before that we had the trilobite up for a great flight. Then last weekend we went back to McAlister Park. This was the scene of some early kite days in Wellington, especially ones by radio stations. This was the day after a major downpour. The ground was muddy. The wind was up and down, so soon the kites were muddy. And anyone who didn't wear gumboots was muddy too. This event was patronised by some stalwart Wellington flyers and a team from Rainbow Flight from Nelson.

The Labour Weekend Kite retreat is on again. As mentioned before we will be making Parafoils and variants of them. Wellington members will have seen the foil with a rainbow dolphin on it. This is a foil of 4 feet by 5 feet which does not pull too strongly. It really seems to love the light winds and will lift line junk with ease.

For the big lifters we have the Peter Lynn Pilot kite. This is a very forgiving kite, in that it will tend to self launch and fly in the lightest of winds. It will also lift a lot of line junk.

Enough of the praises of the kites. The cost will be approximately \$80.00 to \$100.00 not including line. A letter will be posted to registrants as soon as we return from our long deserved holiday (very late September).

Space is filling fast and is limited to first come, first served basis. There are sewing machines available on site, but it is recommended that you bring a sewing machine you are familiar with.

Contact Peter or Anne Whitehead, 59 Makara Rd, Karori, Wellington. Phone (04) 476 7227 Fax 938 6825 or drachen@the.net.nz or drachen@internet.co.nz

Kite Tails

Gwenda and Graham Galbraith from Picton in the South Island, joined the NZKA in 1992, to meet others interested in kites and young in heart enough to enjoy the simple pleasures of flying them.

Gwenda and Graham confess to being 50 something and have been married for 30 something years (try Ginkgo tablets guys, they're good for the memory)

Graham's initial contact with kites was as a child. Then later he and Gwenda were inspired by seeing and hearing kites flown at Waikuku Beach, North Canterbury. There they were influenced by Des Pitfield and Yvonne de Mille's enthusiasm for kite flying, and were encouraged by them to join the NZKA.

Graham likes to fly single and dual line kites and is inspired by big kites, festivals and contact with other kite flyers.

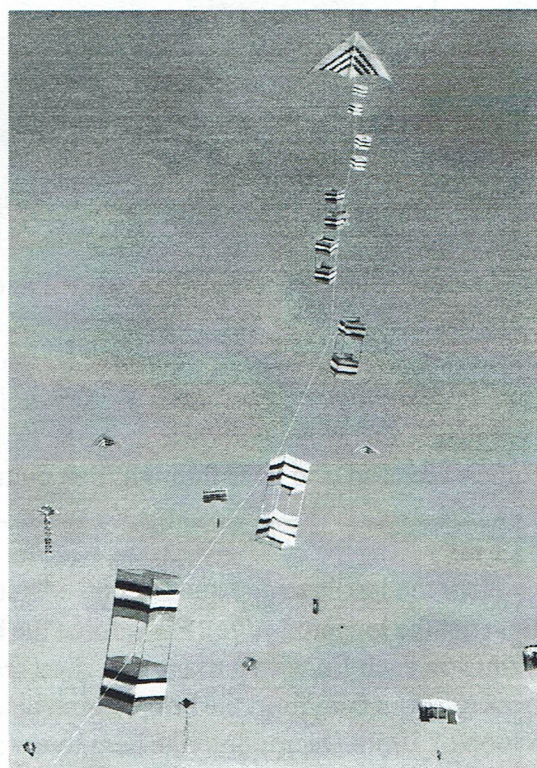
Gwenda likes to fly mainly single line kites, which can be flown with the minimum of effort, and she makes kites that can be cut out on her kitchen table and sewn on a domestic sewing machine.

Inspiration for Gwenda comes from kite Festivals and from creative designs which fill the sky with colour. She says, "I would like to experiment with attaching interesting sound

making devices onto a kite. To be able to channel the airflow through a pipe to create a clear note – like a recorder or flute, could be the start of making a harmonious chord if several kites were flown together each emitting a different note.

Thanks Gwenda and Graham for your profiles, we look forward to seeing you again at a festival in the future, we'll be following our noses as rumour has it that Graham makes a damn fine cooked breakfast.

Left: What kite flying is all about
Bottom right: Lots of liquorice allsorts
Below: Graham and Gwenda



The Multi Flare by Godfrey Gamble

Here's a kite that flies well in light to medium winds and is a surprisingly good lifter for line junk or parachuting teddies. It's also a great graphic platform to allow you to extend your artistic talents. The design is based on the Multiflare by David Pelham, and is basically a flat surface bowed kite.

Read the instructions carefully as the assembly may sound complex but it is really very quick to sew.

Spars

The longerons are A20's and eight are required in total (two for each longeron) and four A20 ferrules.

The cross spar is two FL370's joined with a ferrule and cut to 2.4 metres long. Two FL370 nock caps are also required.

Construction.

Begin by cutting out the five main wing panels and the twelve fins. The cut-out drawings allow a 2 cm hem all round on the wing panels and 1cm on the fins except for the longeron joint which is 2cm also.

Wing Panels

The three centre wing panels can be hemmed top and bottom using the 2cms available to make a good wide seam. Do not hem the sides which form the longeron pockets.

Hem the outside edges of the wing tip panels include some 4oz Dacron re-enforcing at the tips back about 8 cm from the tip. Take a 40cm length of 100lb Dacron line, fold in half and sew onto the wing tips so that a loop of about 10cm protrudes from the wing tip. This will be threaded through the nock cap and also used to hold the bowline. Add a loop of fabric to the wing tip panel for the cross spar to pass through. See picture.

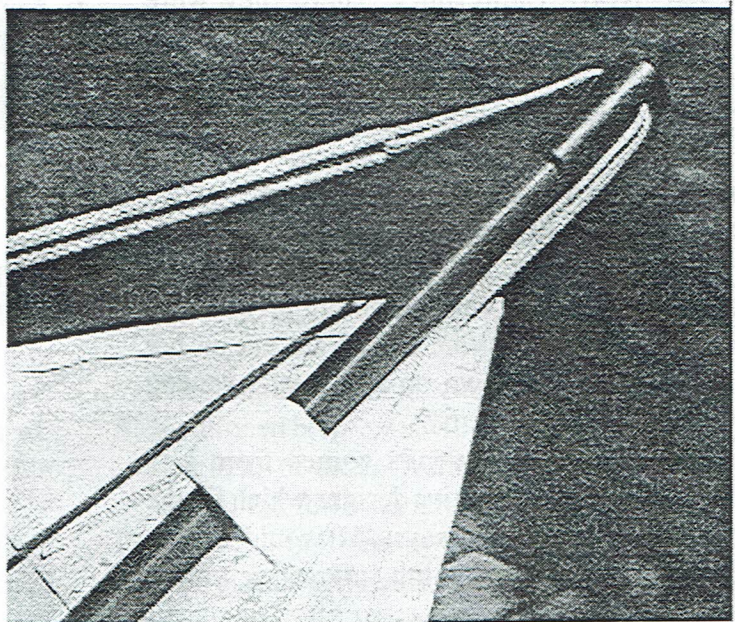
Fins

Hem the leading edge and trailing edge of the fins (not the longeron edge). Re-enforce the bridle points on each fin with a triangle of 4 oz Dacron back to about 5cm from the bridle point, also sew a loop of 100lb Dacron into the hem to act as the bridle point.

Assembly

The wing panels and fins are joined so that they form the longeron pocket. Lay two adjoining wing panels back to back edges to be joined aligned. Lay a set of fins (front, middle, rear on top) so that the fins overlap as per the fin layout diagram. Note the distances for the start of each fin are from the finished leading edge of the kite.

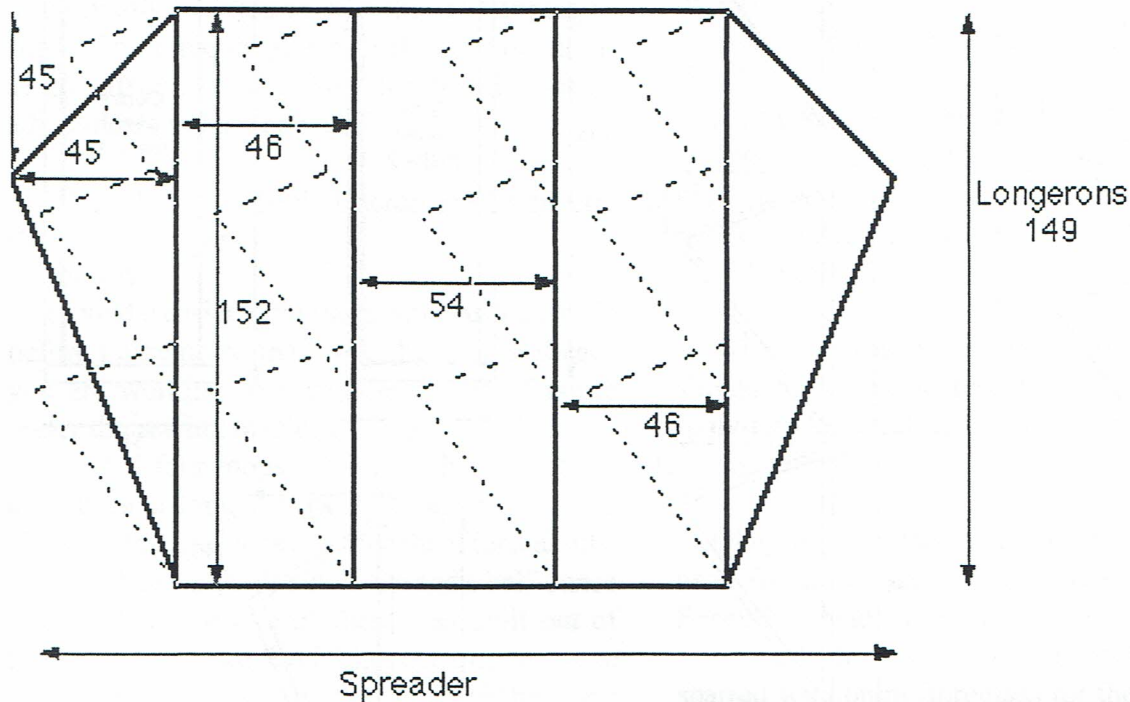
All these panels should be held with double-sided tape or similar until this first seam is sewn. Also at this stage add a loop of ripstop to act as a guide for the cross spar on the rear face of the



kite. This is placed 45cm from the front in-between the two wing panels, so that it will protrude out the back of the kite.

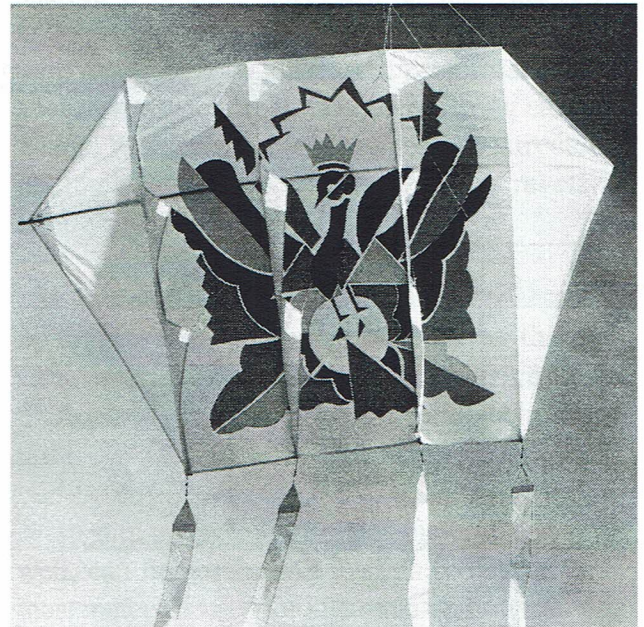
Sew a straight seam 0.4 cm from the edge (seam A in the diagram) to join all these pieces together. Sew from the front to the rear stopping about 3cm from the rear. Fold the seam back on itself to make the wing panels flat and the fins out forwards. Check that the seam is straight and all the fins are aligned correctly. The next step is to fold the two wing panels face to face with the

Finished Flare Dimensions



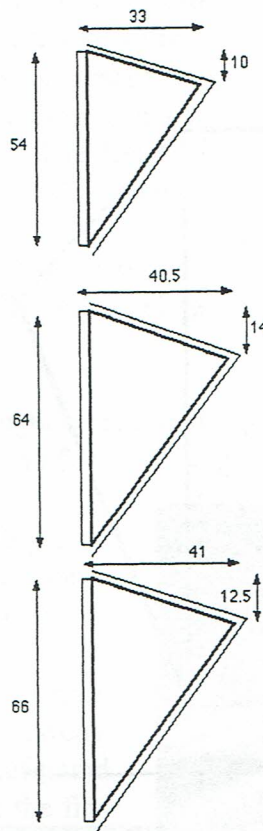
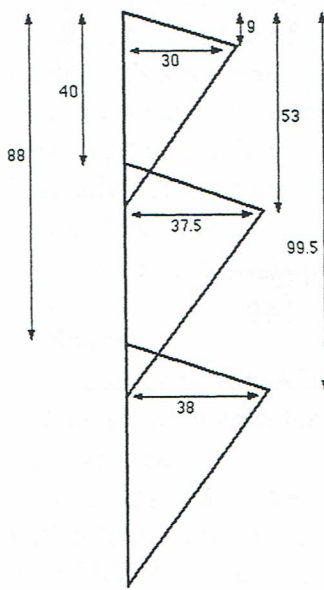
fins in between and sew the "B" seam to form the longeron pockets. Before sewing though add a small square of 4oz Dacron to the leading edge such that it will be inside the pocket and provide re-enforcing for the end of the spar. At the trailing end of the pocket sew Velcro to each side of the panels for the 3cm gap that was left at the end of the first seam. This closes the pocket and secures the spars.

Lay the panels flat and sew seam "B" from front to rear enclosing the Dacron re-enforcing at the beginning and the Velcro at the trailing edge. This makes the spar pocket complete in one operation. The picture shows how the Velcro holds the spar in the pocket at the trailing edge.



	Bridles	
	Outside pair	Middle pair
Front bridles	266cm	246cm
Centre bridles	262cm	241cm
Rear bridles	275cm	262cm

Finished layout of fins showing distances from leading edge



Fin cut out dimensions.
Make four of each fin.
1cm hem allowance on leading and trailing edges and 2 cm allowance on spine edge.

Main panel cut out dimensions.
allows a 2cm hem and joining allowance on all sides.

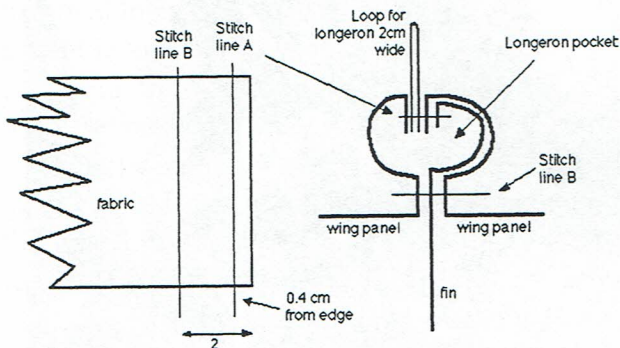
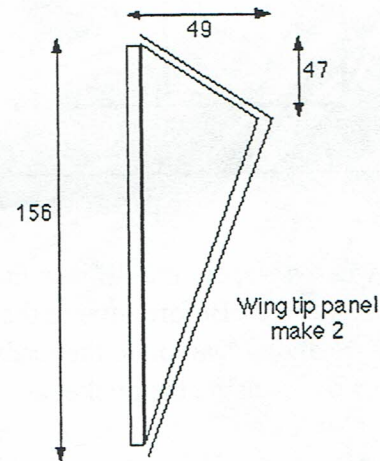
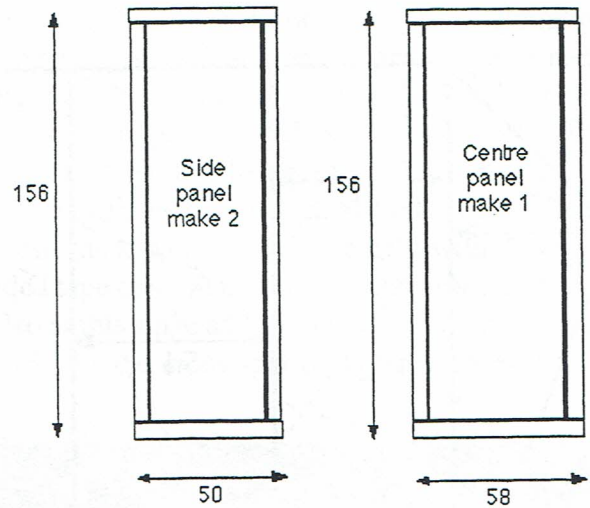
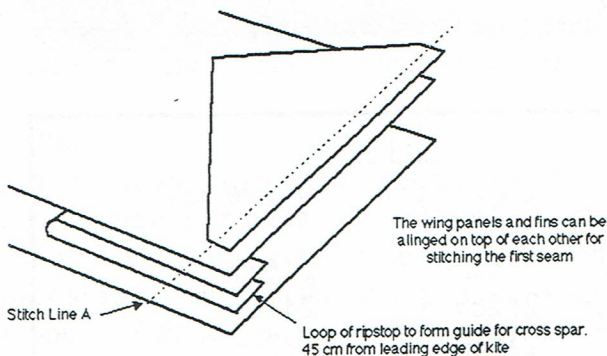


Diagram showing how the wing panels are fitted together to form the longeron pocket.



Sew all four main seams in this manner to complete the kite and form all the spar pockets.

Bowline

As mentioned previously, a bowline runs between the loops at the wing tips, which have been threaded through the nock caps. This helps to tension the sail across the width of the kite as well as providing a secure anchor for the bowline. The kite is bowed such that at the centre there is approximately 20 - 25 cm between the bowline and the kite surface.

Bridles.

The bridles need to be adjusted to fit the final kite but the starting dimensions are given below. I bring the front bridles together, the middle bridles together and the rear bridles together and

A New Kite Material

tie each group to some 3mm VB cord. Don't forget to bow the kite while you are doing this to get the bridles the right length. Each line will have to be finally tweaked to stop the fin flapping in flight. The three lengths of VB cord allows for angle attack of the kite for wind change adjustments to be made easily.

All bridles from 100lb Dacron or 80lb spectra (lighter in weight)

Finally

I found it easier to do the graphic on the panels before I assembled them together. It just means you are working with smaller pieces of fabric under the sewing machine.

I added four loops of line to the rear of the kite at each longeron point to allow for tails although this kite does not need them for stability.

This flare was built out of one and a half-ounce ripstop. My first one of these was built out of three-quarter ounce. Both kites perform the same despite the heavier cloth. The weight of the fabric is small compared to the overall kite weight. Don't forget to make a bag for your kite.

Eltham Easter 2001 is on track. There will be lots of information in the December issue of What's Up? including a registration form.

A New Material Sweeps the Kite World

Polyethylene – sub zero flexibility (for winter flying)!

Tear resistant – rope reinforced hem on all sides!

Rust resistant grommets!

Treated for added protection against damaging ultra violet light!

Wow and it is cheap too, - \$2.99 for 2.3 metres - \$1.30 a metre!

Where can you buy this fabulous material, just slip down to your nearest Warehouse and buy a 'poly-tarp' in a full range of colours as long as you like blue!

Okay let's cut the hype, this material can be used for kite making with excellent results. Recently I made a fairly large delta, similar to kites made for fishing in our area. This was sparred with 6mm fibreglass for the wing spars and spreader, and an 8mm dowel spine. Flown with a spinning windsock the performance was awesome especially in the recent strong easterly winds. With scraps that remained I constructed a Falling Star which also flies well and revels in stronger winds.

It remains to be seen how this material stands up to long term use, experience shows that this form of plastic breaks down under constant friction and generally plastics deteriorate in strong light.

To sum up here, it is a cheap material that sews well, can be hot cut but is slightly heavier than most materials used for kite making, however this does not seem to present any real problems. "Do try it"

Jim Ayers
Clarks Beach

Katz, Kites and Kids

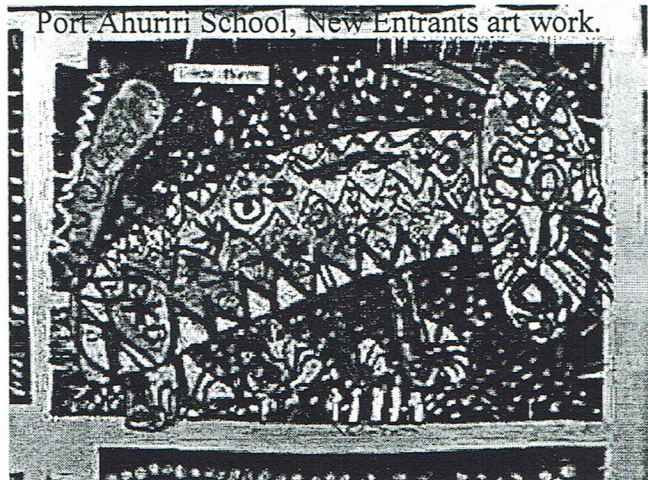
Every year I look forward to another Kite workshop over the Labour weekend. It's great fun to make things that we wouldn't have attempted otherwise plus we meet up with old friends and make new ones.

Last Labour weekend Peter, Anne and Yvonne set us the task of making a Rokkaku, appliqueing it and trying different ways of creating new colours by overlaying two or more fabrics. We could choose our own designs. I had seen a wonderful book of Anne's on CATS. Hence I chose a black background and carefully drew up my cat family. It turned out to be more difficult than I had anticipated and I didn't complete my design by the end of the weekend. Christmas came and went and finally in the New Year I put my head down and finished the challenge.

My friends Liz and Pam, teachers, saw my kite and the book that had inspired me. Both were very impressed and wanted to buy the book to add to their school library to inspire the children's artwork. Liz showed the book to her new entrants' class and they absolutely loved it. She also showed them my kite to help complete their inspiration. Soon there were wonderful pictures of cats in all sorts of poses, colours and designs. Next came the Port Ahuriri school's art exhibition and it was absolutely wonderful. I was sent a computer-generated invitation with a gorgeous cat on it. Once again my kite was displayed above all the lovely artwork. I was thrilled to have helped inspire so many young children. Thank you Anne, Peter and Yvonne, your wonderful weekend workshop went on to create not only a kite for myself but a lot more creative pleasure for lots of young budding artists.

Diana Hough
NAPIER

See the front cover for Diana's finished kite.



Kite Tails

Jim Ayers is from Clarks Beach in the Manukau Harbour. He joined the NZKA in 1989 because he was interested in kite making and wanted to meet others with similar interests. A chance meeting with Bob Maysmor did a lot to kindle his enthusiasm.

Jim is 70+ is married has 2 children and 4 grandchildren.

Jim was an art teacher at the Matamata College and kites were part of the curriculum. He makes and flies all his own kites of many different types, he has more than 200 in his collection, including kites from many different countries.

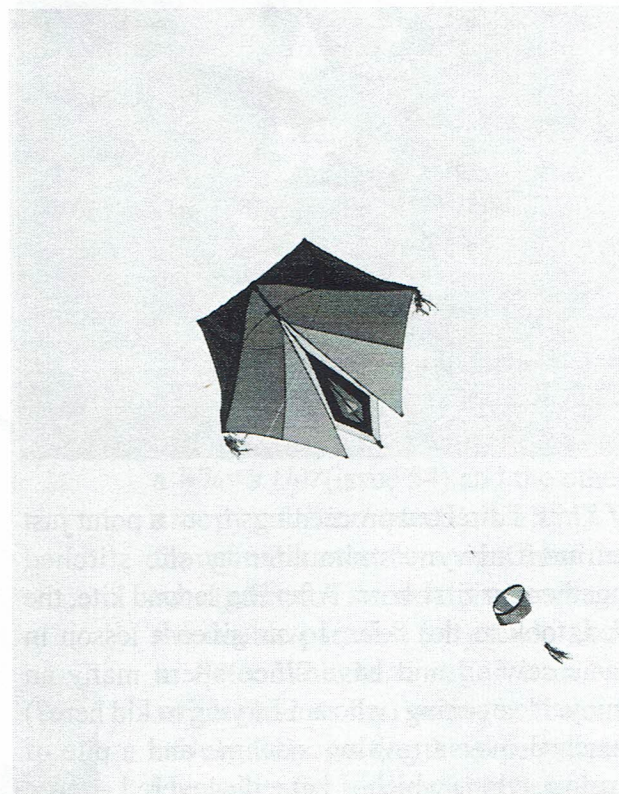
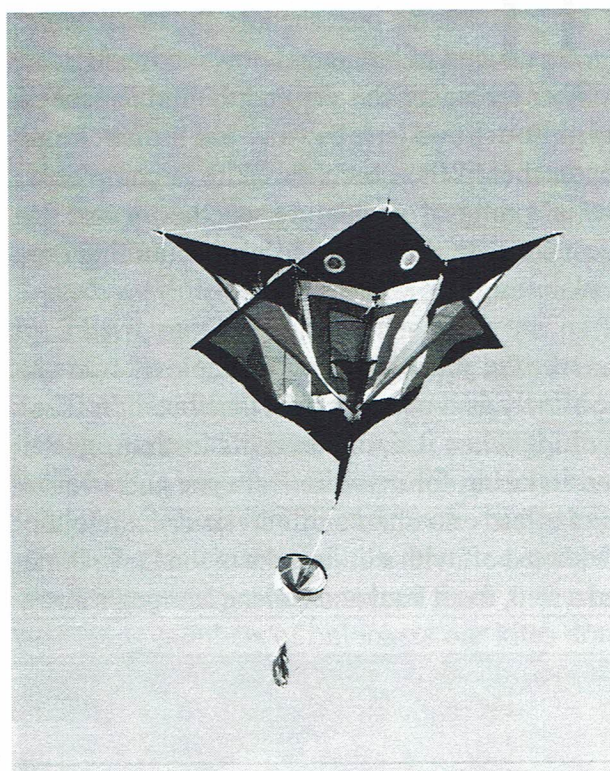
Jim is inspired by kites that fly well, by Pacific and Maori kites that convey our heritage, especially the bird man kite in the Auckland Museum, which is where he gets some of his design ideas. He also gets interesting ideas and concepts from kite festivals

Jim says, "My childhood was spent with art, making boats and sailing. My interest in kites owes a lot to my interest in sailing. Kites and graphics were part of my teaching career. Kites became a serious way of life when I retired and attended my first festival at Napier in 1990. A long association with veteran kite flier Clarry Croft of Hamilton (now Adelaide) has always been an inspiration to me and my mentor to some extent.

Thank you Jim for sharing a small bit of your history with us, we look forward to some new creations from you in the future.

Top: Shawl winged diamond

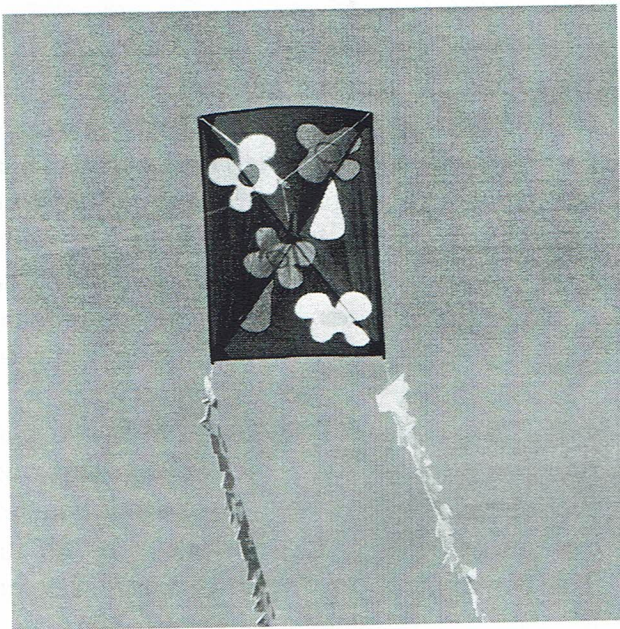
Bottom: Cicada - scaled up version of a small fighter



Kite Tails by Richard Wotton

Having been bitten by that addiction-causing bug, the kite fly, towards the end of last year, I now anxiously scan weather forecasts, the sky and the movement of neighbourhood trees as each weekend approaches. When each new kite is completed, this is a time of wondering whether or not the latest pot of midnight oil was worth burning - or, in plain English, will the thing fly?

Over the years I'd taken a couple of swats at the kite fly as it buzzed around me but didn't feel anything when it finally sank its teeth in, so the start in kiting for my wife Dalwyne and I was a quiet affair - no shouts of eureka or hallelujah! We started off with a little parka nylon Della Porta and a sled, from Paul and Helene Morgan's *Book*



of Kites. I directed proceedings from a point just behind Dalwyne's shoulder as she stitched together our first-born. After the second kite, the sled, took to the skies, I was given a lesson in basic sewing and have since spent many an enjoyable evening (who am I trying to kid here?) hunched over a revving machine and a pile of ripstop nylon, which, I have discovered - more sceptical readers may doubt this - has the ability to sew itself together in the most unexpected places.

My first solo attempt was the cat kite (also from the Morgans' book). As there was no plan, I worked from the photo, a course of action which, I eventually concluded, was not smart. I think the photo showed the kite at an angle rather than square to the camera, so I'd unwittingly built a kite which was top-heavy and capable of quite spectacular spins and dives - and, of course, crashes. On one of its ill-fated outings I met local kite enthusiasts Carey and Geoff Campbell, who very kindly offered their expertise to try to get the critter to behave, but to no avail. I think we all realised at about the same time that the only solution was . . . yes, Supercat! This redesigned version flies very well, but needs a small drogue between sail and tail in a fresher breeze.

Since then I've made about 10 more kites, with rather patchy results, but at least they all fly. I suppose all kite flyers have their favourites, and one of mine is my Stars and Stripes Della Porta (for which I doubled the dimensions of the first one we made). It's a very steady flyer and looks good against a clear blue Wanganui sky.

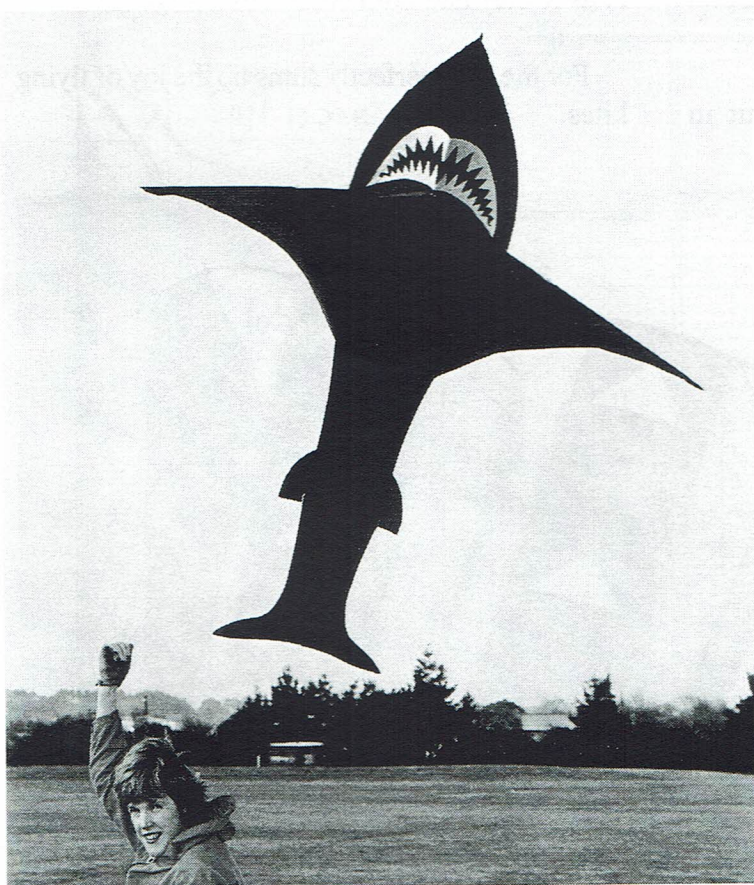
A Snowflake kite was something of an exercise in faith. I read the instructions and looked at the diagrams (37 times) but still couldn't really see how the thing ended up looking like the one in the photo. Finally it was sew and be damned, and, to my surprise, it all came together - just like the one in the picture. The instructions about frame size proved to be incorrect, so I took a guess that each of the six dowels which form the hexagonal frame should be 70cm rather than 77cm and it fitted together without further problems. (The plan, incidentally, came from *Making and Flying Kites*, by Wolfgang Schimmelpfennig. After a bit of initial confusion about which was the top and which was the bottom, the kite took to the air and flew beautifully until a blustery Sunday afternoon when I probably shouldn't have been flying. Two lines crossed and my precious Snowflake came to rest several hundred metres downwind in the top of a 20-metre macrocarpa, part of a row of

trees between two school playing fields. With all the open ground in the vicinity the odds against the thing landing in a tree must surely have been fairly long, but sometimes I just get lucky. Efforts to retrieve it have been fruitless so far, but maybe the Fire Department can help if I ask them nicely.

Somewhat chastened by this setback, I trudged back to the workroom and started on a Kaleidakite (from Maxwell Eden's *Kiteworks*). Once again there was a lot of head-scratching during the construction but it eventually came together - with a few extra holes and bits of reinforcing tape sewn on in the wrong places as well as a lot of bits of tape left over. Oh well, I guess I'll use them on something else one day (i.e. the tape, not the holes).

While poring over an Into the Wind catalogue early this year I became intrigued by their Sky Shark kite and considered buying one. It went on the back burner for a while, and then I decided to make one. I measured the small catalogue photo

and scaled it up to 3m by about 2m. Apart from 8mm dowelling wing spars, all the framing is fibreglass rod of varying thicknesses, with a 6mm spine. I didn't do a proper design before starting construction but worked mainly by Maxwell Eden's TLAR (that looks about right) method, so I took a few wrong turns here and there before sorting it all out. After a final burst of effort one Saturday, I threw a bridle on it (again calculated by TLAR method) and headed for the park, where, to my great delight, it leapt into the air and flew beautifully. I'd felt reasonably confident through the building process that it would fly quite well, having seen the stability of both deltas and lodo kites, which combined form the basic shape of the shark. It's certainly an attention-grabber, attracting plenty of comments from the ever-increasing numbers of onlookers our kites draw to the park. The shark also had a few milliseconds of fame on TV One's weather spot on Queen's Birthday, when they showed about 10 seconds on our kites against a beautiful blue sky after two days of bad weather over most of the country.



At about this point in my kiting career the realisation dawned on me that one of the most difficult things in kite flying is deciding what to make next, but inspiration came right out of the blue, so to speak. My latest kite resulted from flicking through a pile of borrowed kite magazines and coming across plans for the same kite in two consecutive publications, one a *What's Up?* (issue 54) and the other a copy of *KiteLines* (Fall 1994). I thought this must be a sign from the wind gods, so I started right into it and the double parasled (or pseudo sled, as Peter Whitehead called it in his article) had its first outing at the end of July, fully meeting the expectations I had of it after reading what Peter had to say of its performance. It's a very steady flyer and looks as if it would hang in the sky for ever. I opted for

the half size version at 2.5m x 1.5m rather than the giant economy sized model, and I plan to begin work on some line junk very soon, now that I have a kite capable of providing the necessary lift.

One of the reasons I chose this design was for its stability. Dalwyne and I are off to the Bondi Festival of the Winds in November, and as this will be our first kite fest we don't want to earn a black mark by getting a bunch of "Wandering Willy" kites tangled up in everyone else's lines. Stable kites would seem to be the order of the day at festivals. Neither of us has been to Sydney for quite a few years, so we're looking forward to a bit of sightseeing and a lot of interesting ethnic foods, as well as what should be a wonderful kiting experience.

Another attention-grabber at our regular flying site is the pair of large inflatables made by Carey and Geoff Campbell. Each about 4m in diameter, Piggy and Spike have proved very popular with the hordes of kids pouring from the cars that pull up for a closer look at these strange critters.

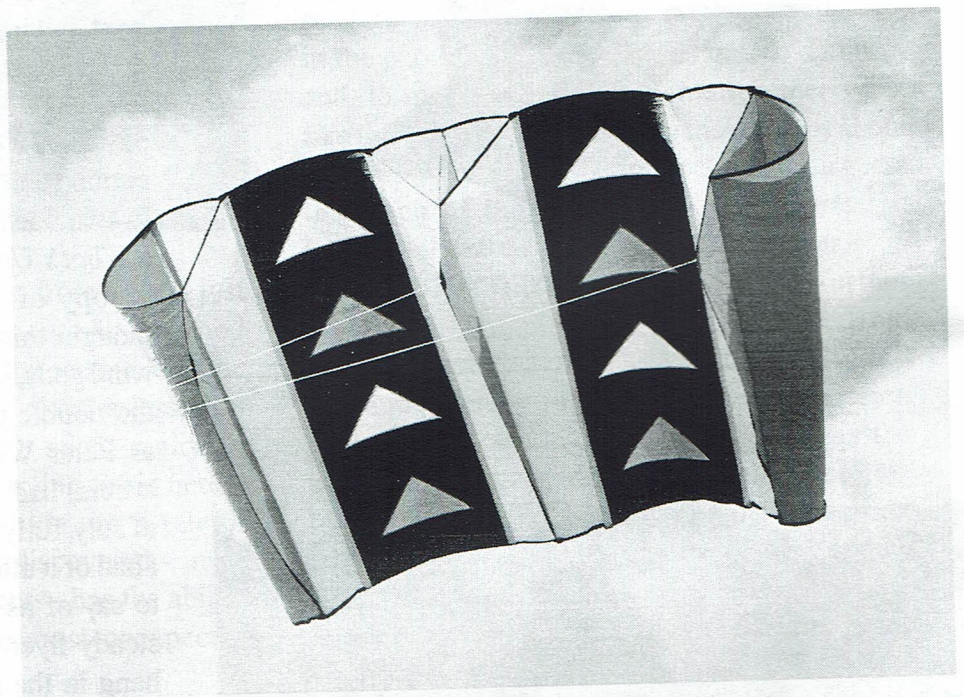
Although casual flyers often turn out in reasonable numbers on a breezy day, keen flyers are pretty thin on the ground at present in Wanganui, with only Carey, Geoff and myself being regulars, but we're hoping to boost our numbers a bit by distributing a flyer (would it be less confusing if I called that an information sheet?) to casual kitters who turn up at the park. We're happy to do what we can to encourage anyone who wants to learn more about kites.

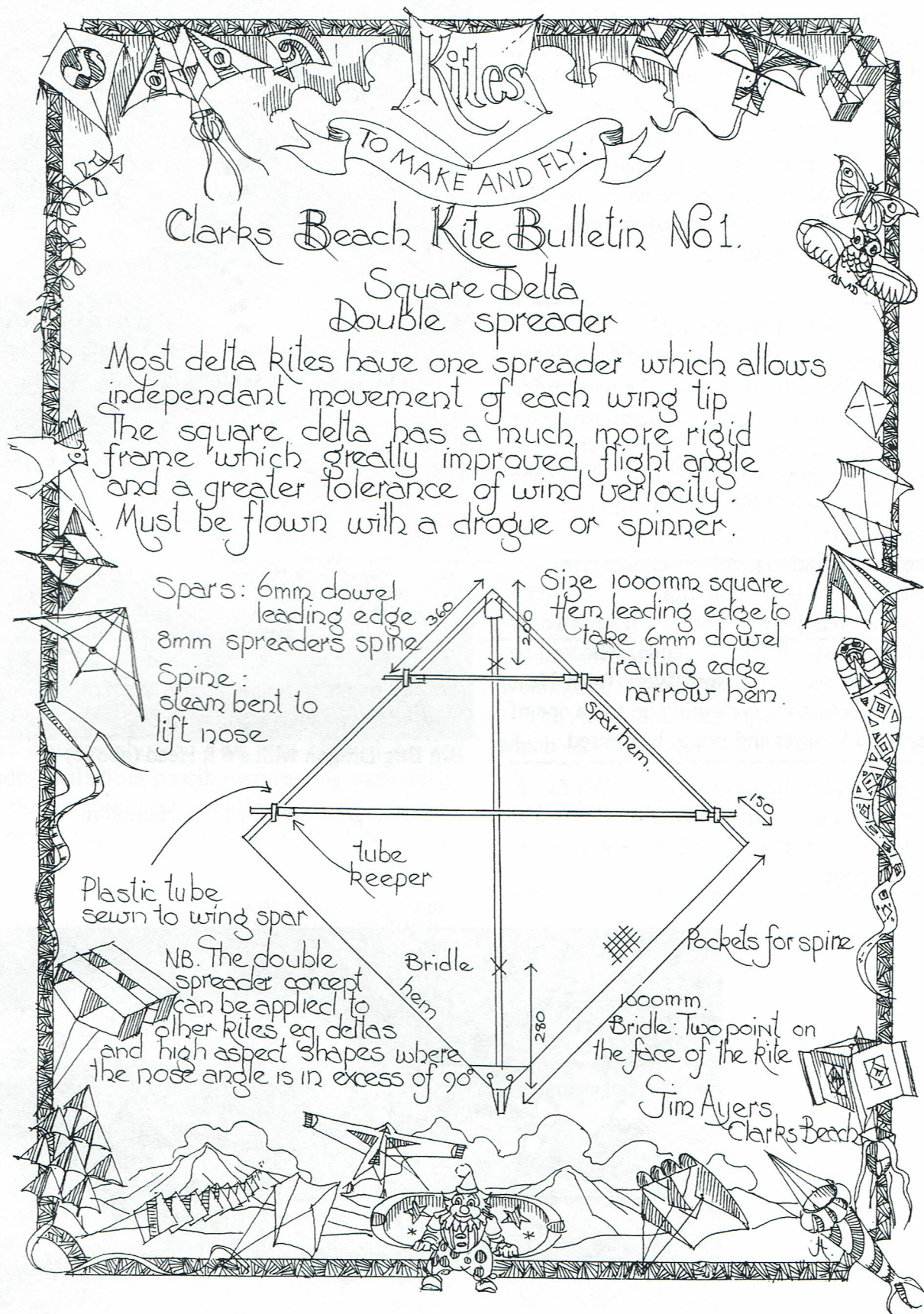
I'm very grateful to Carey and Geoff for the assistance they've given me, so the opportunity to pass on what I've learned will be a way of repaying them.

Our usual flying site is Springvale Park, which is on the bypass if you're traveling on SH3 between Wellington and New Plymouth, and we're there virtually every Sunday from around midday on, weather permitting. If you're planning a weekend in Wanganui or will be passing through on a Sunday afternoon, allow yourself a couple of extra hours to stop off and fly with us. We'd love to see you there. Contact phone numbers are Richard Wotton, on 06 343 2770, or Carey and Geoff Cambell, on 06 343 2018.

Many of you will have read this Charles Dickens quotation in Ron Moulton's excellent book *Kites*: [When flying] "he never looked so serene . . . it lifted his mind out of its confusion and bore it to the skies. As he wound the string in . . . he seemed to wake gradually out of a dream . . . as if they had both come down together."

For me, this perfectly sums up the joy of flying kites.





FOTW The festival they couldn't stop!

The Festival of the Winds is going ahead this year despite an attempt to prevent it by the construction of a huge steel windbreak on Bondi Beach! A change of date means the Festival will be held in November instead of the normal September. SOCOG (the Olympic organising committee) has assured the AKS that the Beach Volley Ball structure will be removed by 31st October thus allowing the use of the beach for the Festival of the Winds

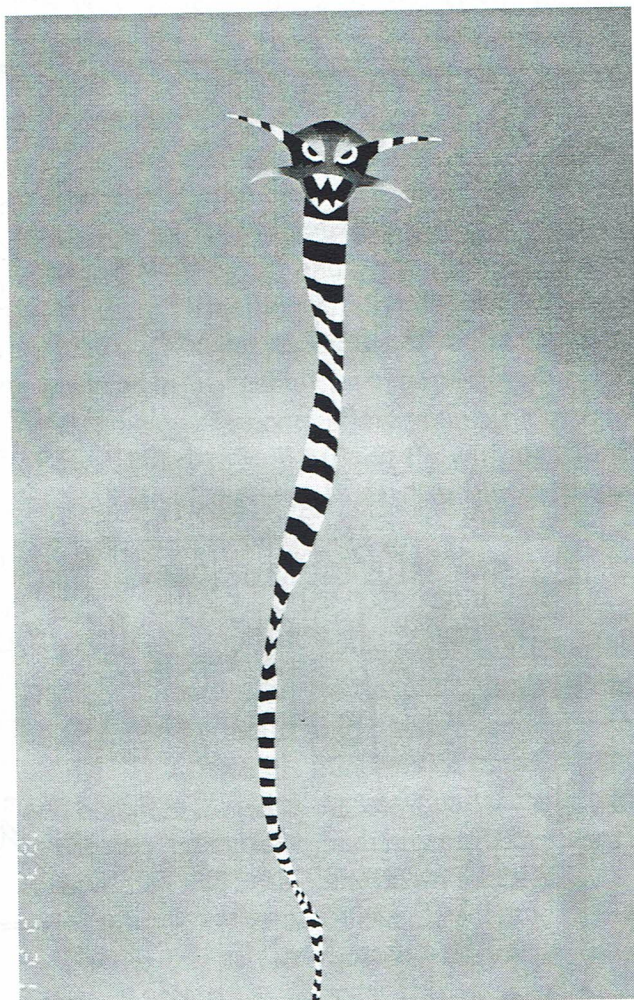
Its Happening!

Organisation is well under way for another spectacular kite festival. We will be welcoming Scott Hampton from the USA to demonstrate his kite building skills and techniques. Scott will be running a workshop as well as filling the beach with his own special kind of colour magic.

Stephen Jarvis winner of the New Zealand Kitefliers Association members choice prize will be present with his winning kite.

We have already heard from kite flyers all over Australia (Darwin, Perth, Adelaide) who will be joining us as well as many flyers from New Zealand. This festival is shaping up to be one of the best FOTW's yet and not to be missed.

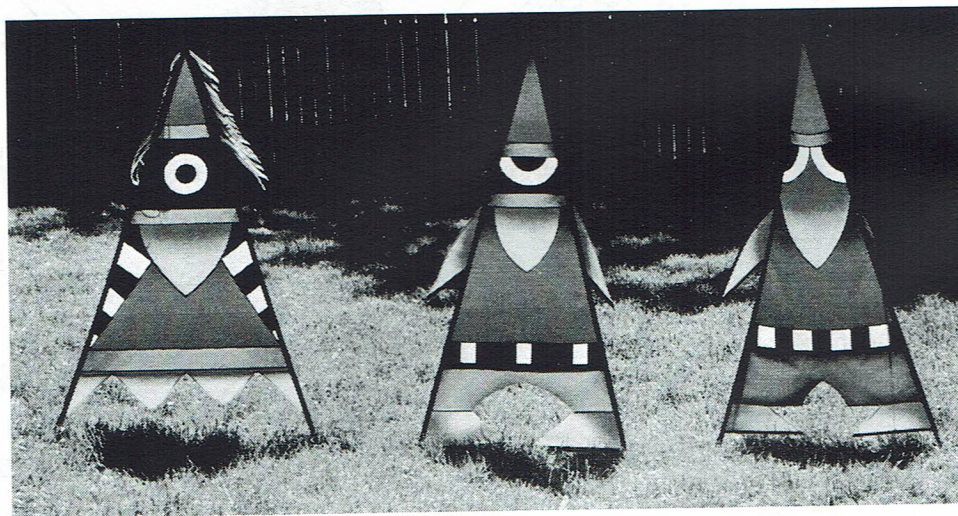
Registration for the Festival of the Winds can be done on line at <http://www.aks.org.au/> and follow your nose to the Festival of the Winds area of the web page



Big Bug Dragon with a 6 ft Head (above)

Kites and ground art by Scott Hampton.

The Coneheads (below)



NZKA Kite Flying Sites

Auckland

Bastion Point (every Saturday)
Contact: Perrin at Kiteworks

Bay of Plenty

Fergusson Park. Tauranga
Contact: Jim Court 07 865 9693

Christchurch

Centennial Park
Contact: Stephen, Norelly Jarvis 03 338 7326

Napier / Hastings

Anderson Park. Green Meadows
Contact: Bill McLachlan 06 870 0205

Nelson

Neale Park. Nelson
Contact: Ted Howard 03 548 8707

Palmerston North

Ongley Park
Contact: Alan and Judi Main 06 353 1953

Waikato

Innes Common, Hamilton
Contact: Lorraine Watson 07 825 7290

Waiuku

Rugby Club Grounds, Waiuku
Contact: Jim Ayers 09 232 0251

Wanganui

Springvale Park (every Sunday)
Contact: Richard Wotton 06 349 0507

Wellington

Fraser Park. Lower Hutt.
Ngatitoa Domain, Plimmerton
Contact: Tony Fitchett 04 478 5575

NZKA Arch Project

The members arch is for every member to make at least one kite. It can be any colour, any pattern but should follow the outline shown. The kite should be as individualistic as possible expressing something of the member. It can be a design you like or have used on one of your kites, you might be a pale blue person and a kite of simply pale blue may be just your thing.

If you don't feel confident making the kite by yourself enlist the help of another member but it should be your design.

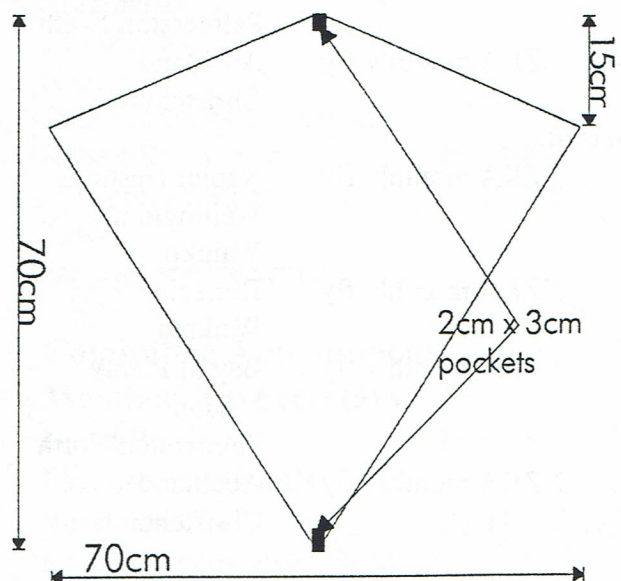
The kites for the NZKA arch are made from $\frac{3}{4}$ oz ripstop. The dimensions are shown in the diagram along side. The kite should be hemmed all round and two pockets only fitted, one at the top and one at the bottom. You do not need to provide a spar or any bridle points. Just simply the skin. The kites will be joined on a single line to form an arch by dedicated volunteers.

If you require further information contact Tony Fitchett, Peter Whitehead or David Bowie. When you have finished your kite send it, or give it to

David Bowie or Peter Whitehead or PO Box 56 Wellington, for joining to the line.

The Association has ripstop scraps available which has been kindly donated by Peter Lynn Limited.

Happy kite building.



Kite Shop Directory

Below is a key list of what kite retailers around the country are offering.

Sl-single line, **Dl**-dual line, **C**-custom made kites, **Bu**-buggies, **F**-fabric, **Ka**-kite making accessories, **Re**-repairs, **Kw**-kite making workshops, **D**-demonstrations, **Bm**-books & magazines, **W**-wind related articles, **G**-gift items, **O**-other recreational items, **Mo**- mail order catalogue, **Kk**-kite kits, **Ex**-exhibitions, **Rl**-reference library.

Kiteworks, 111 Symonds St, **Auckland**. Ph/Fax (09) 358 0991

Services offered- Sl, Dl, C, Bu, F, Ka Re, W. Skylines and Bylines, at The Arts Centre, P O Box 845, **Christchurch**. Ph/Fax (03) 337 2669 Mobile (025) 317 716. email- skylinesandbylines@yahoo.com

Services offered-Sl, Dl, C, F, Ka, Re, Bm, W, G, O, Mo, Kk, Ex, Rl.

Sky's Unlimited, Wiroa Rd, R.D.3 **Kerikeri**, B.O.I. Ph/Fax(09) 407 7270

Services offered Power kites and kites sourced from Germany

Rainbow Flight, 117H Hardy St, **Nelson**. Ph/Fax (03) 548 8707

Services offered-All services provided Hyasa kites, 29 Ticehurst Rd **Lyttelton** Christchurch (03) 328 9934

Services offered Sl, Dl, C, Bu, F, Ka, Re, Kw, D, Mo, Kk.

A Kiwi Kite, 6 Long Street, **Raglan**. Ph (07) 825 7290

Services offered- Sl, Dl, C, Bu, Re, Kw, D, Ex, Rl.

Coastal Kites, 36 Manson St, **Tauranga**. Ph/Fax (07) 578 4250

Services offered-Sl, Dl, C, Bu, F, Ka, Re, W.

Kite Days

September

3	NZKA monthly fly	Napier Hastings Wellington, Waiuku
10	NZKA monthly fly	Dunedin Waikato
17	NZKA monthly fly	Bay of Plenty Nelson Palmerston North
24	NZKA monthly fly	Auckland Christchurch

October

1	NZKA monthly fly	Napier Hastings Wellington, Waiuku
8	NZKA monthly fly	Dunedin Waikato
15	NZKA monthly fly	Bay of Plenty Nelson Palmerston North
29	NZKA monthly fly	Auckland Christchurch

November

5	NZKA monthly fly	Napier Hastings Wellington, Waiuku
12	NZKA monthly fly	Dunedin Waikato
19	NZKA monthly fly	Bay of Plenty Nelson Palmerston North
26	NZKA monthly fly	Auckland Christchurch

December

3	NZKA monthly fly	Napier Hastings Wellington, Waiuku
10	NZKA monthly fly	Dunedin Waikato
17	NZKA monthly fly	Bay of Plenty Nelson Palmerston North
31	NZKA monthly fly	Auckland Christchurch