



The Mountaineer the official Journal of the Melbourne University Mountaineering Club. Registered at the G.P.O. for transmission through the post as a periodical. All correspondence addressed to Union House, University of Melbourne, Parkville. N.2.

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The University of Illinois at Chicago
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 Chicago, Illinois 60607
 U.S.A.

MEMBERS

1	Dr. J. H. Brown	Dr. J. H. Brown
2	Dr. J. H. Brown	Dr. J. H. Brown
3	Dr. J. H. Brown	Dr. J. H. Brown
4	Dr. J. H. Brown	Dr. J. H. Brown
5	Dr. J. H. Brown	Dr. J. H. Brown
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7	Dr. J. H. Brown	Dr. J. H. Brown
8	Dr. J. H. Brown	Dr. J. H. Brown
9	Dr. J. H. Brown	Dr. J. H. Brown
10	Dr. J. H. Brown	Dr. J. H. Brown
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EDITORIAL

The purpose of this issue of The Mountaineer is to acquaint members with the progress of the Memorial Hut to be built on Mt. Feathertop. The Hut is firstly a memorial to Doug Hatt and Russell Judge. However, it will be much more than this - it will be the centre of many future snow trips to Mt. Feathertop and as such will be of tremendous benefit to the Club in the years to come, it could very easily save lives by providing a refuge for people lost in the snow, and it will also stand as a memorial to other club members who have lost their lives climbing in New Zealand.

I am pleased to report that the project is definitely "on", finance will be available, the site is chosen, the design is well advanced, preliminary foundation work including rock-drilling and blasting has been carried out, and come the end of the exams we will be ready to go with a rush.

However, the Hut can only be built if EVERYONE is prepared to give up some time and come along and help. With a big party the work to be done will not only be satisfying, it will be a tremendous lot of fun as well. Elsewhere in this issue you will find details of when, and how, you can help. There is something that every Club member can do to help, even if it is only for one weekend between now and February. We would like to see every member up at the site at least once during this period.

The crux of the project is the transporting, by back-packing, of the materials (aluminium sheet, cement, etc.) to build the hut, food for the construction party, and many associated items. It is intended that loads will deliberately be kept light so that the back-packing into the site will be a reasonably pleasant walk (with good views) rather than an endurance test. However, there are many other jobs besides back-packing, and these will be rotated among members as much as possible, to maintain interest and enthusiasm.

It may or may not be appreciated that there remain a large number of details to be worked out, and loose ends re the organization of various parts of the project still to be tied up. The services of any members not doing exams, or who otherwise have the time, would be appreciated to take on these jobs, details of which are given in the following pages.

Finally, to assist planning of the project, please return the enclosed questionnaire to Ron Jellett as soon as possible.

Phil Waring - President

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SUB-EDITORIAL

The idea of building a hut in memory of Douglas Hatt and Russell Judge came up early in January this year. Since then a Hut Sub-committee has worked extremely hard. What was just an idea at the Annual General Meeting is now a reality. On September 24th, 1965 various motions (see below) were passed giving a full go-ahead to actually build the hut. This completed Stage 1 of the hut. This Mountaineer is a report of this progress and also a guide to the plans to build the hut this summer.

The organizing positions are now filled and the preparatory work (Stage 2) is now nearly complete. Actual building will begin after the exams. November-December is a crucial time as all work prior to putting up the framework of the hut over the Christmas week must be complete. Similarly the prefabrication of the hut must be completed before this date. To meet these deadlines many people will be required and you are asked to fill in and send us the questionnaire indicating when you are available.

Once, again I would like to thank everyone who has helped in any way so far. We will welcome anyone willing to help on the building programme after the exams.

Nicholas White
Hut Sub-Committee Convenor.

Motions Passed at the Special General Meeting - September 24th, 1965.

1. Motion that the hut be built. That a hut be built by the M.U.M.C. as a memorial to Douglas Hatt and Russell Judge.
2. That the proposed site on the N.W. spur of Mt. Feathertop be adopted as the site for the M.U.M.C. Memorial Hut.
3. That the 3/4 sphere design as proposed by Peter Kneen be adopted for the construction of the M.U.M.C. Memorial Hut.
4. That the Hut Sub-committee be empowered to spend an amount of money up to £1,000 from the No. 2 account to finance the construction of the Memorial Hut.
5. That this club empower the Committee, on the advice from the treasurer to transfer from time to time club funds in the No. 1 account which are in excess of £100, to the No. 2 account for use by the Hut Sub-committee to meet Hut expenses. Such transfers will cease when all Hut debts are met.

* * * * *

DESCRIPTION OF HUT DESIGN

The requirements of the Memorial Hut to Douglas Hatt and Russell Judge were that an unconventional efficient hut to be built incorporating a central fireplace or stove around which there is ample room to cook and live. If possible an upper floor is to serve as bunks. The design accommodation is for a comfortable dozen with sufficient space for up to 30 people to cook and sleep such as would be the case on large club trips to the Hut.

The first requirement has been the hardest to achieve. It is of prime importance in our case to design a hut which unskilled labour can manufacture and erect. To do this with an unconventional design has taken many hours of work but it is the opinion of the club that the effort will be worth it.

Basically the shape (external) of the hut is similar to an eskimos igloo. The main portion is of spherical shape which is slightly more than a hemisphere and is 21ft. dia. Within this section is the main living room consisting of a central fireplace (or stove) and surrounded by benches on the circumference of the room. There will be a table, cupboards, sinks etc. and a ladder leading up to the bunks upstairs. The bunks consist of a large circular platform with a hole in the middle. This is suspended from the main framework.

The entrance consists of a "tunnel" 8 feet long by 5 feet wide and its purpose is to provide an airlock, space to store wet packs, boots, ropes etc., firewood, axes, shovels etc.

The framework is the most unconventional section of the hut so it calls for a more complete description although it is difficult to describe in writing. The framework is made up of straight members (i.e. posts, struts, beams, joists etc.) approximately 50 inches long. These members of which there are 160 are joined at 75 joints. All these joints are located on the surface of a sphere and either have 5 or 6 members meeting there. The joints are designed to connect these members coming to a point at various angles. Pop rivets and glueing will be used for connections. Aluminium hollow tubes of rectangular shape 3" x 2" will form the members and the joints made from Aluminium sections. The total weight of the framework 21 diameter will be about 650 lbs.

At specific joints of the framework the platform from the bunks will be suspended by wires or possibly in some cases by metal straps, thus eliminating the need for internal supports.

The covering of the dome consists of flat aluminium sheet which will be cut out into triangular panels to match the framework. The method of joining these sheets has not yet been finalized but will contain some pop riveting. To provide lighting it is envisaged that a couple of these panels in the top of the dome will be replaced with fibreglass panels and that many of the triangular panels in the lower level will be replaced by fixed double paned windows.

Description of Hut Design (cont.)

The foundations of the hut consist of concrete posts made up in Melbourne and set up at the site to the required level. The space between these posts will be filled in by building up a stone wall varying in height from 1 ft. to 5 ft. at the entrance. Steel straps cast in the concrete will be joined onto the lowest level of joints in the framework to unite the two sections.

Underneath the floor of the hut an area will be excavated to a depth of approx. 2 feet and in which there will be sufficient room for some additional storage and provision for a water reserve. This water will come from rain and melting snow from the roof.

During the designing of the hut many problems of considerable magnitude have arisen and it will be of interest to note the main ones here :

1. Geometry

Modern society is used to living in rectangular shaped areas and designing in this system is made easier because of our intimate familiarity with this system. Many structural framework components act individually and the geometry of surrounding frames has no bearing. However in a spherical frame the action of the frame depends largely on the geometry. More specifically, in our case it was necessary to determine lengths of members accurately so that they could be fitted together to form a sphere.

From these calculations it is possible to determine the required levels to build the foundations to. I am indebted to Ian Thomas for assisting in this work.

2. Determination of Loads on Structure

It becomes extremely difficult to determine what sort of loads will come onto the structure because of the location of the site, weather conditions (wind and snow) and the shape of the hut. The easiest way is to increase these loads to high values thus requiring an uneconomical design. The loads chosen were :- snow loads, 100 lbs./square ft. on most of the roof (design checked for 150 lbs./ft², wind velocity of 100 m.p.h. which probably could be attained in rare wind directions perhaps once in 10 years. The load of 30 people (200 lb. each) on the bunks. With more thorough investigations it could be justifiable to lower the snow loading.

3. Analysis of Framework and Covering

This would require too much space to elaborate in detail and the work done so far would be sufficient to double the size of this "Mountaineer". It suffices to say that detailed analysis has only been possible by reference to some work done overseas on these type of structures in the last couple of years. Sensible results have been obtained.

Page Missing

Description of Hut Design (cont.)

by the Club progressed to a stage where every member can assist and at the same time benefit from it. Many of the big problems are just beginning and will become very complex as work proceeds and most are concerned with the organization of people. However the general feeling is that difficult though the problem is, the benefits and ideals of the Memorial Hut are worth working for.

P.W. Kneen (Design Officer)

The Hut Sub-Committee would appreciate that details of any work carried out on the project be recorded as to the times taken for the various activities such as travelling, organization, building, packaging etc. The purpose of this is so that a complete report can be written of the project at some later date.

A more detailed report will be written covering the design and will be completed by March 1966.

I would personally appreciate any information concerning costs and time spent on activities, partly for this report.

A copy of the estimates of costs could be included as part of the above report if desired.

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FINANCES

Is the Club capable of supporting this project financially? YES!

The estimated cost of the project is £950 and the Hut Appeal target is £1,000.

Funds on Hand (1st November, 1965)

Total receipts minus £32 expenditure = £465

This has come from donations, raffle, auction, pie night, film show, parties etc.

The Club is, at present, capable of donating £200. As returns from "Equipment for Mountaineering" (being printed this month) come in, the Club will be able to donate further sums.

To span the period between when the money for the project is needed and the "returns" become significant, the club is obtaining the necessary funds via a loan from the University. i.e. the Club will go into debt! To ease the burden on next year's committee, this debt should be as small as possible. You can help to minimize this debt, if you have not already done so, by sending a donation, no matter how small, to

Richard Schmidt, Treasurer, Hut Sub-Committee,
C/o Melbourne University Mountaineering Club,
Union House, University of Melbourne, Parkville, N.2.

Finances (cont.)Donors List to date

Rosemary and Andrew Arnold
Adelaide U.M.C.

G.R. Brown
Sandra Baines
Wendy Bisset
Dr. Francis E. Binet
Prof. G. Burnstock
Robert and Ruth Blackith
Guy and Donie Bush
Lyn Burbury
Fan Bowie
John Cole
Lindsay Crawford
Roger Caffin
Prof. T.M. Cherry
Suzanne Cory
R.H. Cronier
Bob Chappell
Anton Cook

Ellen Davies
Julie DeBrett
Bob Dewar
V.E. Donkin
F.M. Drummond
R. Davidson

R. Fox
Michael Fellar
Roger Frankenburg
Brian Fleming
T. Falkiner
H.F. Girschik
Mary Gunson

Hobart Walking Club
Dave Hogg
Mr. and Mrs. R. Hawthorne
Anne Hartnett
Robert Hall
J.W. Hudson
Wendy Howe
Rex Harris
Juliet Hillman
Anthea Hart
Barry Humphries
Elizabeth Hamilton
Heather Jones

Leanne Jurss
Cliff Judge
Bruce Jones
David Jones
Gerry and Rae Jacobsen
Peter Kneen
Tom Kneen
Tony Kerr
M. Kirkham
Bernice Kelly
C.M. Knight
Roger Little
Dr. F. Loewe
John R. Linthwaite
Arthur Lucas
M. Lincolne
Peter Leeson
Monash Bushwalking Club
Cath Milvain
Fred Mitchell
Don Mackay
Alan Marsland
A. Martin
Richard Myers
Michael Mesyaras
Andrew McCallman
Jennie McMahon
J.D. McCaughey
Phil. and Jenny McCumber
Alice McEwan
Julian Nayer
R.N. Nankerville.

A. Pogany
P.A. Parsons
Don Phillips
Sue Quilford
Jim Rose
Bert Beeh
Nina Ralevitch
P.A. Rawlinson
Ron Reed
D.M. and M.K. Robson

Richard Schmidt
Helen Sare
Ross Smith

Finances (cont.)

Mr. Sudholtn	Rowan Webb
Phil Seccombe	John Wolters
C. Selby Smith	Phil Waring
Mrs. L. Solomon	Helen Wood
Barbara Smith	Jo Williams
L. Southwell	Phil and Val Willy
Don Thomas	Eric Webb
Jeff Toll	Mick White
Mark Tweedale	Sue Wilcox
Alex Tarr	Sally Hosgood
Rosemary Thomson	M. Little-john
Val Underhill	V. Strangio
V.M.T.C.	V. Sarafis

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TRACK REPORT

There are a number of tracks associated with the project. They are (i) the Summer Access Track running from the Road End 4 miles north of Feathertop, along the Razorback, and traversing around beneath Feathertop to the Site; (ii) the Winter Access Track from Jack Keating's farm on the Owens River to the Site, up the North-West Spur of Feathertop; and (iii) other short track(s) connecting the Construction Camp and the source of water to the Site. For details, refer to map on back cover.

Summer Access Track

This is at present trafficable (to walkers) but will be further improved in the next few weeks - for details of track clearing trips, see else where in this issue. The track will be used to carry all building supplies etc. into the Site. The northern section of it, from the Road End southwards, will be cleared of logs and trees for as great a distance as possible to permit the passage of Land Rovers. The use of chain saws, gelignite, tree-pullers, crowbars, axes, mattocks, picks, etc. will be required for this work. Hiring a bulldozer to do the work would be prohibitatively expensive, unless we can find a generous owner of one - enquiries are at present being made in Bright. Scrub has been, and will be, cut back from the walking part of the track so that shorts may be worn in comfort.

Selecting the best route for the track to get across from the Razorback to the Site presented a problem. After two strenuous and time-consuming "direct-line-to-site" scrub bashing reconnaissance trips starting from different points along the Razorback had been made, it was decided to route the track along an existing high-level bridle cum cattle track which traverses around the "cirque" at the head of Stony Creek (North-Eastern Branch). The decision not to use a direct-line route was made considering the thickness and toughness of the scrub that would be encountered on it (far worse than on the Winter Access Track), its steepness, the height lost, and its hard rocky soil which would make benching difficult.

Track Report (cont.)

Thus the high level route, despite its extra length, was chosen because it is virtually clear, little extra benching is required, and the height lost and gained is smaller.

Winter Access Track

This track is about two-thirds complete in terms of man-hours of labour. However, no further work will be done on it until after the Hut is completed.

Other tracks

These will be cut and benched some time this November.

Dungey's Track

This is the road we will be using to get from Freeburgh (5 miles south-east of Bright along the Ovens Highway) up to the Road End on the Razorback 4 miles north of Feathertop. The road follows up Snowy Creek crossing it many times at good stony fords. After leaving the creek it climbs very steeply for 5 miles up onto the Razorback. Cars can climb this section provided that it is dry and that they are in good mechanical order, i.e. engine and gearbox in reasonable condition. However it may be necessary to park some cars at the bottom.

Phil Waring.

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ORGANIZATION

Please fill in the attached circular.

Prior to each work party going to Mt. Feathertop a compulsory briefing meeting will be held on the Wednesday or Thursday night at 7.30 p.m. in the Union. Your attendance is essential so that the maximum amount of work is completed in the most efficient manner.

Food will be provided so that actual work flow is not hampered by stopping work early. This will cost about a £1.0.0. per man per weekend.

Equipment is obtainable from stores where necessary. Tents and some sleeping bags will be provided at the campsites.

Transport will be under Ron Jelleff and Tony Kerr will be in charge of labour.

We have the use of the Engineering Department's workshop and also the work shop facilities of the Burnley Horticultural Institute.

Organization of the Hut Project

The following are the organizers. If you have any queries please contact us.

<u>Convenor</u>	Nicholas White	171 Park Drive, Parkville 34 3986
<u>Secretary</u>	Jenny McMahon	439 9124
<u>Treasurer</u>	Richard Schmidt	34 3986 171 Park Drive, Parkville.
<u>Design Officer</u>	Peter Kneen	Ormond 34 1640 Home 99 2748
<u>Equipment</u>	Tom Kneen	81 1346
<u>Food Catering and Fund Raising</u>	Nina Rulevitch	56 3772
<u>Draughtsmen</u>	Tony Kerr Cath Milvain	87 1259 80 3481
<u>Transport</u>	Ron Jelleff	34 0484 2289 (day)
<u>Purchasing Officer</u>	Lindsay Hackett	85 3759
<u>Packaging Officer</u>	Bob Dewar	25 3349
<u>Reporter and Publicity</u>	Margot Osborne	99 3359
<u>Track Clearing</u>	Phil Waring	
<u>Others</u>	Bob Chapell, Dave Allen, Frank Hicks, Rowan Webb, Don Thomas, Ross Smith (see Membership List).	

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WOMEN'S PAGE or WHAT'S IN THIS SEASON?

Holiday Resort : Mt. Feathertop (not for tourists)

Clothes : the oldest you possess.

Make up : none.

Enjoyment and Satisfaction by :

- (a) satisfying the appetite of some 40-50 men!
- (b) working off any excess weight and getting fit.
- (c) sun-tanning while working.

"You're in" if you offer your services to tend the herd of OXON that are apparently going to graze on Feathertop this summer. The herd will be let loose (I sincerely hope not) the weekend after the exams - November 27th-28th and will need feeding (so they can put all their energy into lugging and building) each weekend and over the Christmas - New Year week until the autumn. I know a few girls will be full of energy and be so fit that they will be strides ahead of the rest of the herd! But there are a few of us who aren't so fit (me for one) who also want to be useful. We wouldn't know perhaps what a pot rivet is but we know what pot atoes are, how to scrub a pot (and how to down a pot!)

We are planning to set up a sort of hash house at the campsite preparing and cooking meals for the workers. This will need about 5 or 6 ready willing and able girls each trip to Feathertop. We will buy all the food on the Friday before each trip at the Market and bulk stores and so 3 girls could help by shopping.

If you can help in any way - even for 1 weekend or Friday, contact

NINA RULEVICH (Phone 56 3772)

N.B. Ideas on menus are very welcome. The men reading this might like to know that we're doing this to please them in many ways mainly to make their weekend's food more palatable and cheaper. (We will be asking you for money - we hope 10/- to 15/- per weekend to fray the costs).

Thanks

Nina

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TRIPS PROGRAMME

November 19th - 21st - Post Exam Bludge at Fred Fry's on the Howqua. This traditional trip is to one of the most delightful spots in Victoria. Everyone, should make it. There is good swimming, loafing and walking and many mountaineers will be seen at their most colorful.

Van leaves Union 6.30 Friday November 19th it is nearly full. However a number of cars will be going up.

Booking Nicholas White (34 3986) or Aikman's Road, Lunchtime.

Party's

There are rumors that there will be a number over the summer. Watch noticeboard for details and listen.

Anyone going on private trips should inform Nicholas White (34 3986) so that names can go to Mr. Tichner for insurance purposes. Contact Tom Kneen for equipment needs this summer.

Club Contact Nicholas White 34 3986.

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THIS CLUB AND ROCKCLIMBING

Rock climbing in Victoria has, in recent months been moving ahead very strongly. This increase in standards has however been totally within the Victorian Climbing Club. The M.U.M.C. as a club has been notably absent from the front line of climbing. This is a regrettable state which the present climbing sub-committee will rectify with the assistance of your interest.

Climbing up a rock face by putting in new routes is probably the most challenging and satisfying facet of rock climbing. At present Victorian's finest cliff faces are about to be opened up or are partially developed, a position which occurs only for a short space of time in the evaluation of climbing in a country. Now is the time to grasp your activities, and improve your climbing participation and ability. 1966 will be the best year yet for M.U.M.C. climbing.

With recent developments, the scope of climbing has radically changed. As a result the climbing group in the club will be streamlined to suit. Changes long overdue are imminent if not already made.

If you want to be on the forefront of this clubs entry into what is undoubtedly the golden era of climbing in Victoria, you should join the organized trips and organize your own. We want enthusiasm and interest. There is no place for apathy in this, the most challenging and exciting aspect of mountaineering in Australia.

This Club and Rockclimbing (cont.)

For members and potential members who would like to begin the sport, the dates and venues of the 1966 climbing course have been determined. They are :-

1st - 3rd April. A weekend at the Sugarloaf near Buxton.

This weekend will teach basic climbing technique and procedure and give the beginner gentle adjustment to being on a rock face.

22nd - 25th April A long weekend will be held at Mt. Arapiles near Horsham, a fine scenic area with excellent rock climbing of all standards. Beginners will have every opportunity to climb at any standard, and use all the techniques of rock climbing. There are over 90 different climbs at Mt. Arapiles.

Over the long vacation there will be three official club trips. These are :-

19th - 21st November

Mt. Stapylton an extensive face offering a large variety of types and standards of climbs. The main wall is divided into three distinct areas. A long overhanging orange wall as yet undeveloped, a flat green-grey wall which offers some possible high standard climbs and a steep well broken area on which several easy climbs have been done. The whole area is dotted by beautiful small crags, etc. Camping has generally been at Troopers Creek 15 miles away but base of Flat Rock (10 min. easy walk from face) could be developed for camping. Many new routes are just waiting to be climbed.

29th - 31st January

The Temple. Further details in next mountaineer.

25th - 27th February

Mt. Arapiles. All experienced climbers should attend as this is a preliminary to the climbing course.

Further details later.

Ian Speedie the Climbing Sub-Committee convenor will be the leader of all these trips.

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CASUAL OXOMETRIC TYPE PARTY

When? 8.00 p.m.

Wednesday 24th of November.

Where? At honourable home of honorary secretary,
Mr. Ross Smith, Esq.
36 Central Park Road, East Malvern.

How do I get there? Shank's Pony or Helicopter, via
Street Directory.

What shall I bring? Small donation to Hut Fund, and a
musical instrument if you wish.

Am I welcome? YES! You're welcome, he's welcome,
she's welcome, i.e.

..... ALL WELCOME

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