

MAY 1994



NEXT MEETING WILL BE HELD
WEDNESDAY, MAY 4, 1994

GROUNDWAVE



Club Call VE3RC

Repeater VE2CRA

VE3LXP

Official Bulletin of the Ottawa Amateur Radio Club, Inc.

The Ottawa Amateur Radio Club, Inc., Box 8873, Ottawa, Ont., K1G 3J2

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THE OTTAWA AMATEUR RADIO CLUB, INC. is an association of Radio Amateurs devoted to the promotion of interest in Amateur Radio communications in the National Capital Area; and to the advancement and achievement of club members.

REGULAR MEETINGS of the OARC, Inc., are held on the first Wednesday of each month (except July and August) in the Champlain Room (2nd floor of the Old Teacher's College) of the RMOC HQ complex on Lisgar St., Ottawa, at 1915 hours. Further details about each meeting is elsewhere in this publication.

THE OARC EXECUTIVE normally meets on the second Wednesday of each month at 1930 hours. Contact the President to confirm the date of the next meeting.

PACKET RADIO MEETINGS will be held at 7:30 p.m. on the last Thursday of every 2nd month, starting September 1993, at the Museum of Science and Technology. This is an OARC technical meeting open to all who have an interest in packet radio.

DEADLINE FOR COPY is the second Wednesday of each month. Make yourself better known to fellow members and other amateurs, too, by giving us an article, technical or otherwise, relative to our hobby.

MATERIAL PUBLISHED herein does not necessarily represent the official OARC viewpoint. Items may be reprinted by Amateur Radio or other publications provided that proper credit is given to the author and to the OARC, Inc.

JUNIOR MEMBERSHIPS - To encourage young people to join the club and to participate in amateur radio, the club is opening a junior class of membership. Dues will be at a 50% discount but the junior member must pick up his/her copy of the Groundwave (preferably at the meeting).

RADIO AMATEUR CALL BOOKS are available at many local libraries. Ask at the information desk.

SAFETY BELTS AND AN ENGRAVING PENCIL are available for loan to club members. The engraving pencil (to mark valuables for identification in case of loss or theft)

and the safety belts with pole straps are available to any members. For the belts, a refundable deposit consisting of a cheque equal to the replacement value of the belts is required. Contact the President for the engraving pencil; and Paul, VE3ICV, at 820-6643 (West End) or Brian, VE3JKZ, at 523-1535 (East End) for the belts.

THE CAPITAL CITY NET meets every Monday at 2000 hours on the Club Repeater VE2CRA (146.34/.94) to pass traffic and to make announcements of interest to amateurs in the National Capital Region.

PACKET RADIO VOICE NET meets following the Capital City Net on VE2CRA at 2040 hours. This is an informal net to answer questions about packet radio, pass along operating hints and provide information for future packet operators.

THE SWAP NET is a service provided and conducted by Ed Morgan, VE3GX. This feature appears on the Capital City Net, noted in the foregoing paragraph. To list items and make inquiries, call Ed Morgan at 733-1721.

POT-HOLE NET is a SSB/HF net sponsored by the Ottawa Valley Mobile Radio Club, and conducted every Sunday at 1000 hours on 3.760 Mhz. All amateurs are welcome to check in. The Swap-Net is a regular feature.

POT-LID CW NET is an informal slow-speed CW net sponsored and conducted by Ed, VE3GX, and meeting every Sunday, except during July and August, at 1100 hours on 3.620 Mhz, to promote interest in CW and CW procedures.

REPEATERS

VE2CRA	Voice	146.94/34
		443.300/448.300
VE3OCR	Packet	145.01(sx) Inter city links
VE3OCR	Packet	145.07(sx) Local Area net for QSO and Packet BBS.
56 kbps	Packet	220.55/433.55
VE3DX	DX Info	146.25/146.85;
	Packet	145.11(SX)

For further information, please contact repeater chairman.

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MINUTES OF OARC GENERAL MEETING
HELD APRIL 6, 1994

The meeting was called to order at 19:33 hours.

Visitors: VE2DZT, VA3LAR, VA3SDS, and VA3SID.

Announcements:

On April 23, Chris Weisner, VE3CUZ, needs four volunteer operators for the Boy Scout Soap Box Derby.

Also on April 23, the Cornish Amateur Radio Club in the U.K. is celebrating International Marconi Day. Try your hand at working the Cornish hams on that day.

For the May meeting, Peter Jago, VE3PWJ, is "looking for volunteers to come forward for the executive. We need new blood--we would like to see their inputs into this club's affairs. We have plenty of resource personnel in our club and we know that you can do the job admirably." So, think about running for the executive and getting yourself nominated - call Peter today.

Early in June, Dave Goodwin, VE2ZP, will bulk buy aluminum tubing. If you want to get in on the discounts, then you should promptly contact him about your needs.

October - Remember that the flea market is tentatively scheduled for the first weekend after Thanksgiving, since Thanksgiving Day falls on October 10. Most attendees here today favoured this date. Peter Hafichuk, VE3LBW, said the only alternate date was October 22nd but for now, October 15th is the tentative date for our club's annual flea market.

Home brew stuff:

A good time was had by all. Seven hams put their stuff on the table and this stuff was explained, viewed, and judged. Details of this event are in the article called HOME BREW NIGHT.

Meeting adjourned at 21:45 hours.

by Johnny Mroz, VE3EIE

SECRETARY RESIGNS

Thanks to all in the OARC - I enjoyed my time here. Unfortunately for me, I resign because my commitments next year will often conflict with our club's regular meeting dates. Nominations for the secretary position on the OARC club executive should be forwarded to Peter Jago, VE3PWJ.

73 de VE3EIE

UPCOMING SPEAKERS

May - Paul Griffiths, VE3PGL, will tell us about SARSAT

June - elections. Nominate someone now!!

1994-95 EXECUTIVE

We are looking for people for the 1994-95 executive. If you are interested in giving this extra support to your club, please volunteer. (Note: there is almost never an election, but if we get enough candidates, an election would be an interesting novelty.)

UPCOMING FLEA MARKETS

The OVMRC 1994 Flea Market will be Saturday, May 14th, at the St. Laurent Arena, 716 Morin Avenue, Ottawa.

Vendors - 08:00, General Admission - 09:00

Talk-in - VE3TWO, 147.3 MHz

Information: Ken Barry, VE3KJB, 746-4823

The Smiths Falls Flea Market will be May 7th.

The OARC Flea Market will be the 3rd Saturday in October. Get ready now!

1.2 GHz BAND

At the executive meeting on April 13th, Dave Parks, VE3AV, pointed out that the 1.2 GHz band is an interesting place to be. Could we put a club repeater in this band?

Ed. Note: This band extends from 1215 MHz to 1300 MHz, or 85 MHz. This is more spectrum than from d-c to the 6 meter band, or more bandwidth than in all of the lower amateur bands combined!

BASIC AMATEUR RADIO COURSE

The Basic Amateur Radio Course is filled. It starts May 3, 1994.

RADIO AMATEURS OF CANADA
NEWS SERVICE

RAC CANADA WINTER CONTEST 1993 - the final results have been compiled, and congratulations go out to: Don Moman VE6JY, the top single-op all bands entrant; Frank Vanderzande, VE7AVE, the top single band entrant; the Hamilton ARC VE3DC, first place among the multi-ops, and the highest score overall; and to Carl Durnavich, KF9FU, the top scorer from outside Canada. Jim Thompson VE7ZZR was the top QRP entrant. Full results will appear in the May edition of The Canadian Amateur magazine (TCA). (Item 1, Bulletin No. 03-94.)

APOLOGIZES FOR MISINFORMATION ON QSL BUREAU SERVICE - The Radio Amateurs of Canada (RAC) Incoming QSL Bureaus distribute QSL cards to all Canadian Amateur Radio Stations (per published instructions). RAC apologizes for the "misinformation" to the contrary which has caused so much confusion. Murphy's law was at work.

A September 1993 RAC Board of Directors motion to restrict incoming cards to RAC members was to be announced only after the implications and mechanics had been developed and approved by the Board at a subsequent date. It became apparent almost immediately that this was an inappropriate course to pursue. A decision was made not to change the traditional process and rules. Unfortunately, this was not clearly understood by our staff and editors, and therefore not caught in time to properly explain and correct in our subsequent news releases and issue of The Canadian Amateur magazine (TCA).

Once again, Radio Amateurs of Canada sincerely apologizes. (Item 2, News Bulletin 03-94.)

RADIO AMATEURS OF CANADA CONVENTION CALGARY - The Radio Amateurs of Canada first national convention will take place at the Marlborough Inn and Convention

Centre in Calgary, July 29 through 31, 1994.

In the words of RAC Convention Chairman, Ken Oelke VE6AFO, "this conference promises to be the largest in Canadian amateur radio history". The convention committee is anticipating 1,500 delegates.

The convention schedule is packed with activities from start to finish. Early registration, is essential to avoid disappointment due to seating limitations, particularly at the banquet and barbecue.

For those travelling to Calgary the convention committee advises that you book your transportation early for best rates and availability. Canadian Airlines is offering a special convention rates; ask for registration number 5070. Greyhound Bus Lines has special convention rates to offer as well. Simply quote RAC convention when you order the tickets. (Item 3, Bulletin 03-94.)

MINISTER ACKNOWLEDGES IMPORTANCE OF AMATEUR RADIO - In a February 1, 1994 letter to Radio Amateur of Canada President, J. Farrell Hopwood VE7RD, Minister of Industry John Manley said, "The contribution of Amateur radio operators to the art of science of radio-communications is well known. I know that Industry Canada officials can count on the collective knowledge and experience of skilled radio operators to assist them on issued of mutual concern." (Item 11, Bulletin 03-94.)

PROPOSED RADIO SPECTRUM ALLOCATION - In a February 2, 1994 letter to Radio Amateurs of Canada President, J. Farrell Hopwood VE7RD, Minister of Industry John Manley acknowledged Mr. Hopwood'd letter of concern regarding the proposed spectrum allocation and utilization in the range 30 - 960 MHz which "invites public discussion on the usage of the 220 - 225 MHz band.

He said, "Industry Canada has established a history of developing balanced spectrum policies through a public consultation process that has been refined over several years. This process has enabled the department to discuss issues as they emerge and ensure that all interested parties' views are given the same balanced consideration that is accorded to all users of the radio frequency spectrum during spectrum policy reviews."

Mr. Manley acknowledged the submission on behalf of Radio Amateurs of Canada by Earle W. Smith VE6NM.

Mr. Manley said that "his officials are carefully studying all submissions which were forwarded to Industry Canada and in due course an appropriate policy will be announced". The Minister also said he admired the fine work Canadian Radio Amateurs do in times of emergency. (Item 12, Bulletin 03-94.)

RFI COMPLAINTS MAY FORCE YOUR STATION TO SHUT DOWN - If a radio signal transmitted from your equipment interferes with your neighbour's inadequately shielded TV, VCR, audio equipment, or even their electronic organ, under new proposed regulations you could be ordered to close down. Poorly designed, substandard electronic equipment is very susceptible to RFI, even from very low power transmissions. It is the Department's reluctance to set and enforce manufacturing standards, such as Europe and the US have, that many see as the reason why Canada may soon become the dumping ground for this equipment.

Many Amateur radio operators are convinced that the new proposal by Industry Canada (IC) is taking a step backwards. The Department is suggesting a field strength measurement be used at the site of the equipment which is being interfered with. If it is your radio equipment that is causing the interference, and your signal strength is over the standard set by the Department, you may be ordered to cease operations or

modify the operation of your equipment so that it no longer causes interference.

Rev. Glen Betts VE7CXJ, recently wrote to The Honourable John Manley, Minister of Industry to voice his concerns over the issue saying, "I believe that the guide lines for designers, manufacturers and importers of electronic equipment that are now suggested be made into what they were intended to be in the first place; they should become law". The Halton Amateur Radio Club February bulletin carried the content of his letter in full.

Ben Kendall VE6FN, writing in the Northern Alberta Radio Club Emitter on the same subject says, "an injustice is being committed if we allow this proposal to proceed". He urges everyone to become active and let their voices be heard.

If you plan to write to Mr. Manley his address is:

The Honourable John Manley
Minister of Industry
C.D. Howe Building
235 Queen Street
Ottawa, K1A 9H5

Keep in mind that no postage is required when writing to the Minister. You may also wish to send similar correspondence to your Member of Parliament which may also be mailed postage free. (Item 16, Bulletin 03-94.)

HOME BREW NIGHT

Our master of ceremonies, Peter Jago, VE3PWJ, presented....

1st place. Brian Summers, VE3JKZ, for his 40 meter CW/SSB XCVR. "A beautifully conceived and engineered project."

2nd place. Clare Fowler, VE3NPC, for his modified Lindenblatt satellite antennas. "All about building a means to an end."

3rd place. Bill Edwards VE3WCE for his briefcase/stealth portable. "Originality and sheer audacity."

Honourable mentions go to...

Dave Parks, VE3AV, for his copper wire front window mount and half-wave dipole assembly. "Necessity is the mother of invention."

Howie Foell, VE3OWP, for his slim-Jim VHF antenna, and power saving extension cord. "Knows how to avoid chequebook engineering."

John Conner, VE3TG, for a 20 meter QRP rig. "Nice workmanship, we'll wait for your other project coming out next year."

Mike Kelly, VE3FFK, for his modifications to his brand new TenTec HF mobile, and making an electronic keyer. "Good thinking Mike!"

And now presenting the Home Brew Night contestants in order of appearance...

Bill Edwards, VE3WCE, presented his "briefcase/stealth portable." Bill explained that, since he's a government worker, he uses the bus daily. To keep up with the latest ragchews on 2 meters, he decided to build this portable station for use on the bus. Bill started with an old, once used for computer tools, hardside briefcase then put in a Canadian Tire DC battery pack, an old 10 Watt FM mobile, an ex-taxi antenna, a thin, one-foot-square, aluminum baseplate, seven or eight ham magazines, and a lunch. Bill lifted the lid on the stealth device, plugged in the antenna, turned the FM mobile to on, and we heard the Welcome Mat Net coming in clearly (but the lunch was gone).

Clare Fowler, VE3NPC, presented his modified Lindenblatt antenna, a low-gain, omnidirectional satellite antenna to contact low earth orbit (LEO) satellites. Clare said that he previously used a high-gain, directional antenna to contact the high-orbiting

OSCAR13 satellite but since this popular satellite is currently being eclipsed by the Earth, its batteries are low, the contact window is narrow, and contacts became tougher to get - he decided to build the Lindenblatt antenna. When attached to an ordinary handi-talky, the Lindenblatt antenna's omnidirectional pattern can contact some LEO satellites like the A0-27. Clare talked about his tuning of this antenna's unique elements and captivated us with his scientific method as he solved several design problems. Clare proved to us that the SWR can be 1:1 on this antenna, too. Clare is currently working on a 70 centimetre model, which he also presented tonight.

Brian Summers, VE3JKZ, presented a home-brewed 10 Watt, 40 meter CW/SSB XCVR. Brian's home brew project started out as an old, used 50 Mhz chassis from which he kept the power supply, cabinet, speaker, and chassis - the rest went into the parts bin. What Brian brewed up was a direct conversion transceiver with SSB phasing on TX/RX, and AGC on the audio output. He chose the phasing network because it delivers true SSB reception and true CW single signal selectivity. Nostalgia buffs may remember that the phasing network was all the rage in the 1950's. A short and straightforward presentation on the overhead projector enhanced our knowledge of Brian's home-brew project from concept to completion.

Dave Parks, VE3AV, presented his "copper wire front window mount and half-wave dipole assembly" for use on packet. This uncomplicated assembly can be used in most any location on the planet - "Have window-Will packet" is the adage to use here - and this assembly is especially important for the packeteer-on-the-go who's left home on a business trip and forgot to bring the Ringo. The inventive Dave kept the details of construction to a minimum, and those present appreciated this point. The copper wire front window mount and half-wave dipole

assembly consists of some arbitrary length of coax feedline: at one end stripped down to the copper wire conductor to a length of a half-wavelength of the intended operating frequency, with two radials (possibly coat hanger material) inserted between the coax's protective jacket and braided shield, and the appropriate connector on the other end of the coax feedline - oh yes, and some tape to mount it all to a front window. The SWR proved to be below 3:1.

John Conner, VE3TG, will complete his main home brew project for next year's home brew contest and show but he did bring a recently completed home brew project that he called the "lazy man's approach to home brew," --a 20 meter QRP rig that he intends to use for this year's Field Day. John's 20 meter QRP rig is a superheterodyne transceiver with one 24-pin IC (MC3362) and a few discrete components. John said that although the kit was expensive, the finish was outstanding, and those here tonight can vouch for that. A short and straightforward presentation on the overhead projector took us through John's high tech kit.

Howie Foell, VE3OWP, presented two home-brew projects: a "slim-Jim" VHF antenna, and a "power saving" extension cord. The slim-Jim VHF antenna is a narrow, rectangular loop made from copper tubing, and its aspect ratio of width to height is about 8:1. This slim profile allows it to also be used in locations where airspace or nosy neighbours are a problem - without sacrificing performance. Howie says the SWR is manageable. Howie's power saving extension cord consists of a standard extension cord that has a diode put in one conductor. This true home brew is less expensive than the costly, energy-conscious fluorescent bulbs now in vogue - just plug your lamp into this extension cord and voila - it's half as bright! Another good use is to turn a single-speed appliance into a half-speed

one, such as a drill when you'll be drilling into masonry for those mast mounts that you'll be putting up for the slim-Jim VHF antenna you'll have made.

Mike Kelly, VE3FFK, presented two home-brew projects: one was the demonstration of his modifications to his brand new TenTec HF mobile, and the other was an electronic keyer. What! (you say), modify a brand new rig? His brand new rig's front LCD panel was constantly lit when the rig was on. Since Mike mostly goes bicycle mobile during daylight, this lighting was unnecessary, and in the wintertime we know how long our portable batteries last, so something had to be done. On the schematic, Mike located the circuit that put power to the front panel LCD lights, but on inspection of the rig, he found that this circuit was inside the multi-level main PCB. Skilfully, Mike cut into the PCB, cut the circuit, soldered wires to the circuit, and routed the wires a new switch that he mounted on the chassis (in a new hole nonetheless!). The rig's receive-current-drain is cut in half with the lights off. Mike's other home-brew project was the building of an electronic keyer using the Curtis 80448ABM IC. The chassis was formed from two-sided, copper clad, PCB that was cut and soldered to form an open ended U-shape. A 10-pin connector strip was installed on one end; all external connections except the 9 Volt battery terminate here. The IC and discrete components were installed on a prototype board and affixed inside. A PVC plastic cover fits over the chassis. Mike built this electronic keyer for full-time use.

That's it for this year's OARC Home Brew Night. What are you all brewing up for next year?

by Johnny Mroz, VE3EIE

LETTERS TO THE EDITOR

To the Editor: The Groundwave

Date: March 9, 1994

"Re Changes at Ottawa's DX PacketCluster Repeater VE3XDX"

Gentlemen:

The SYSOPS of VE3XDX would very much appreciate your cooperation in publishing the short article below in your newsletter. We are anxious that all amateurs in the National Capital Region, particularly DXers, should be brought up to date on significant changes that have just been made to VE3XDX.

"DX PacketCluster Repeater VE3XDX"

The SYSOPS of this packet radio station are pleased to report that recent changes have significantly improved the Cluster's performance.

The most obvious change, from the users point of view, is the Cluster's new frequency, 144.910 MHz (A change from its old frequency of 144.930 MHz). This is one of the input frequencies of VE3NAV, a Packet Radio BBS located in Greely, Ontario. We made the change to improve our access to Ottawa's Packet Radio Network. Our old first link was into VE3KYT which unfortunately seemed to be a poor path from VE3XDX's location in Metcalfe, Ontario.

The need for a reliable link into the Ottawa Packet Radio Network is because we wish our Cluster to be linked to as many other clusters as possible. We DXers like to share our information! The other clusters we are talking about are mostly Montreal, Toronto and Western Ontario. Our main gateway into these many DX Clusters is a station in Montreal, VE2PWI. We reach this packet radio location by digipeating through the

Ottawa Packet Radio system, VE2RM and hence to VE2PWI. The Montreal station has a solid link, via satellite, to clusters in Toronto and, through them, into the US. When everything is working OK, which is most of the time these days, we are connected to as many as 77 other DX PacketCluster nodes some of which are as far away as California and the UK!

DXers connected to any of these nodes can place DX "Spots" on their local PacketCluster station and the information is passed on to all the other nodes within a few minutes. This sharing of DX information is a tremendous help in spotting the rare ones.....it is like having dozens of other operators at your elbow helping you to winkle out DX where ever it may be on the bands.

Back to our Ottawa DXers. Some of you have had difficulty in connecting to VE3XDX, particularly if you live in the Eastern outskirts of Ottawa, places like Orleans, Cumberland and Blackburn Hamlet. Now you can access VE3XDX by digipeating through your favourite Ottawa Packet Radio station, on through VE3NAV-1 and into VE3XDX.

In closing I should mention that VE3XDX carries more than just recent DX "spots". We have a "Bulletin" section where we store, for you to download, most of the Packet Radio DX bulletins together with any other material of interest to DXers. Recently we placed in this bulletin section two long articles by ON6TT, one of the Peter 1st Is. operators. We believe all hams will find this material particularly interesting. The Cluster also contains up to date solar indices from WWV, QSL information on DX stations and a message section where local DXers can message each other.

Now that the Cluster is operating better we hope that all Packet enthusiasts in

the NCR will check out its features and join us in using this excellent DX tool!

The VE3XDX SYSOPS.

de Paul Cooper VE3JLP

To the Editor, The OARC Groundwave

Date: March 30, 1994

Dear Editor:

This is to tell you that I enjoy reading the GROUNDWAVE. Congratulations to you and your assistants for a fine newsletter and a job well done.

The first page (2) is a good reference to new and long-time "Radio Amateurs" (not fussy about the term "hams". We seems to be getting away from that now). You fellows are real EXPERTS.

Page 3, with contents and minutes for March meeting tells where to find and what went on. (I wasn't able to attend.)

It's nice to see page 4 with mk's and other committee members' report - (on page 5 as well.)

Scanning the other newsletters tells me what's going on elsewhere. Good stuff!

Nice to know how our incoming amateurs are doing.

All in all, GROUNDWAVE is a newsletter to be PROUD of! An that takes some doing. I know!

Thanks fro your dedication, Mike.

My issue copy will be passed on to another aspiring (but not young) radio enthusiast.

73 Fred Green, VE3IO

To The President, OARC

Date: March 18, 1994

Dear Mr. President:

On behalf of the Emergency Measures Radio Group (EMRG), I would like to take this opportunity to thank the Ottawa Amateur Radio Club for authorizing the use of VE2CRA during our recent exercise.

The exercise, which involved 51 members of EMRG, was an unqualified success in that it pointed to areas of weakness that will become the focal point of future training initiatives.

Thank you again for your assistance and cooperation.

73s
 Joe MacPherson, VE3CAT
 Communications Officer
 Ottawa-Carleton EMU
 Emergency Measures Radio Group

MK's words

Apr 6/94 - Spring has sprung, although as of today snow still drifts down. With any luck that will be a distant memory as you read this. On the last day of March an unusual (for the date) thing happened. During the morning drive to work time there were 5 of us on 2 metre equipped bikes, and on the way home the same thing occurred. We were VE2JLP and VE2ZP, and VE3FFK, VE3BUP and VE3ADE. On the way home VE2JLP was absent, but VE3ANO took his place. Not a bad way to chase the winter away. I am waiting for better weather before putting the Scout on the wonder-buggy, but it can't be much longer now. In the 12/93 issue of a mag called "International Defense Review" I found an ad for a "Swiss Army Bike". The copy said it would carry one man* and 100 Kg of equipment. They also implied that it would need no repairs, and would get through where other modes (of transport)

wouldn't. Sounds like a natural for CW bike mobile work.

After the snow goes, and before the lawn needs cutting, give your ground system (you do have one, don't you) some attention. These days, when the frost is just coming out, and the ground is waterlogged you have the best chance of getting ground stakes down. Radials pushed into the ground this time of year get covered up quickly by the new growth on the lawn as well.

Updates to earlier stuff: The EMRG exercise has come and gone. Lots of fun learning just how big the Regional Municipality of Ottawa Carleton really is. We went from Cumberland to Carp and to places I'd never heard of, passing traffic and doing signal checks with far flung corners of the Empire (oops I mean Region). A few days later was the EMRG meeting, consisting of videos about aspects of this emergency planning that most people don't get to consider, and briefings on various aspects of emergency response and communications.

That's about it for now, meanwhile, don't go nuts at all the fleamarkets coming up. Remember, you still haven't used up all the junk (oops high quality components and subsystems) you got the last time.

*The ad never did say if the bike would carry one woman and 100 Kg of gear- Maybe that has something to do with the composition of the Swiss army.

Last word...PORTABLE! try it, you'll like it.

73..mk VE3 FFK

BULK PURCHASE OF ALUMINUM TUBING

Dave Goodwin, VE2ZT, is coordinating a bulk purchase of aluminum tubing. If you are interested, please contact him by early June.