

North Shore ARC

Vol. 3 No. 12
December, 1997

Serving the Amateurs of Durham Region

Merry Christmas & Happy New Year!

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Contributors

Thanks to Dave VE3AJY, Ivor VE3JMP, Howard VE3TYQ, and Walter VE3FJC for submitting items for this months newsletter.

Deadline for Next Issue

Please have all items in by the 15th for next months issue. Thanks de Laird, VE3LKS.

research in general, this was a rare opportunity. This is the first time AMSAT has held its annual conference outside the US.

There were amateurs from many countries including Germany, Austria, UK, Switzerland, and Pakistan. US hams came from nearly every call area including Alaska. I don't have the official registration, but there seemed to be around 300 people there on Saturday.

I was surprised to see the wide range of presentations, and it was an eye-opener to see the amount of work that is underway around the world in Satellite building. Here's a brief outline of some of the topics:

Update on Phase 3D

P3D is the next generation satellite that will hopefully be launched next year. There's been a lot in the Amateur press about this project. It was initially planned for launch this year but a series of set-backs has now made the launch date uncertain. It definitely won't be in 1997. AMSAT has been working with the European Space Agency (ESA) to secure a spot on one of their latest 500 series rockets. These rockets are still in verification mode which enables AMSAT to get a low-cost spot on the vehicle. P3D missed its initial schedule to fly on flight 501. That rocket exploded shortly after launch. Subsequently, ESA issued more stringent stress requirements for "500" payloads. This meant that P3D had to be completely disassembled and structural reinforcement added throughout its framework. For the AMSAT team this was a major upset, since P3D was scheduled to fly on 502 which is now expected to launch in November without P3D.

The P3D development and integration team were all present at the seminar and gave a thorough explanation of the structural changes, complete with video. The changes are now complete and the electronics should be remounted by the time you read this.



N.A.R.C. Annual Christmas Party!

Tuesday, December 9, 1997

Red Cross office in the Oshawa Centre

Finger foods will be provided and you are asked to please bring a desert.

See you there!

AMSAT Space Symposium

The 1997 AMSAT Space Symposium and annual meeting was held in Toronto on Oct. 17-19. I was able to attend on Friday and Saturday to hear many of the talks and presentations. For anyone interested in Amateur Satellite communications, or Space



North Shore ARC

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University of Toronto Satellite Proposal
The University of Toronto in conjunction with the Canadian Space agency is developing a micro-satellite for astronomical research. It's main objective will be to perform long duration photometry on several stars and will fly in a sun-synchronous polar orbit. It will carry a small telescope and photometers to study single stars for periods up to 3 months. U of T has approached AMSAT for joint planning and development. In return for AMSAT expertise, this satellite could also carry a voice transponder for ham use. This is a very ambitious project which appears to have sound financial backing. Watch for more on this one.

Sherbrooke College Satellite Station on the Web

The Students of Sherbrooke College in Quebec built a satellite tracking and communications station in order to participate in SAREX (Shuttle Amateur RadioEXperiment), and to work the MIR Space station. In order to allow more people to share in the fun, they automated this station and made it accessible via the Web. They call the project WATOO (Worldwide Access To Orbiting Objects). It currently only permits web users to listen, but when complete will allow licensed amateurs to have two-way contacts. The station is fully automated, providing frequency control, antenna tracking, and Doppler shift control from a programmed server. Users accessing the server from the web can initiate the process and listen to the results using 'Speakfreely' software. Users must download the JAVA application from the college, and so some setup is necessary.

I haven't tried it yet, but the URL is <http://miako.si.usherb.ca>. It's still very much under development but offers future potential for linked tracking stations that can offer full time access to a satellite or Shuttle.

University of Alabama Satellite Project SEDSAT

Like the University of Toronto, this group is looking to the amateur

community for assistance and technical support to make their satellite a success. However this project is much father along and is planned to launch in mid 1998. Its primary mission will be atmospheric research and will photograph the earth through a number of special filters. Downloading the images to earth will be the main challenge for this project since the satellite will only be visible in Alabama for short periods. Although there are regulatory concerns the University is seeking amateur assistance in retrieving this data. The SEDSAT team also proposes to include a Mode A voice transponder for amateur use.

Outlook for Phase 4 - Geostationary OSCAR?

Even though Phase 3D isn't launched yet, the AMSAT hams are already looking to the future to assess the possibility of a geostationary amateur satellite. This would be even more ambitious than the P3D project and presents some new obstacles. In order to serve the majority of the world's hams, there would need to be two satellites. Even then there would be areas that wouldn't have access. Matters of funding and deciding on coverage will take a great deal of negotiation among the geographic AMSAT groups. Keeping a satellite in geostationary orbit requires fuel to make orbital corrections. This increases costs, complexity and potential hazards during launch. An alternative proposal would provide a somewhat stationary orbit where the satellite appears to move slightly north and south each day, but remains in the same general vicinity of the sky. It is anticipated that Phase 4 would be fully digital, including digital voicecommunications similar to that used in digital telephones, and would operate entirely in the microwave bands. No doubt Phase 4 is many years away, but it offers hams the opportunity to remain in the forefront of communication technology. Meanwhile, Phase 3D will give us the opportunity to get ready for new communication modes and bands.

As you can see there are many projects underway to keep amateur space

exploration alive. In addition to the satellite projects, the symposium offered a number of interesting sessions on Software development and data communications protocol for space. There was guidance for newcomers on how to get on the new microwave modes, and what we can expect to see on the new international space station. There was even an update from one of the engineers at SPAR who is building the CanadaArm for the international space station. If you're not active on satellite communication yet, give it some thought and checkout the information on the web.

Dave VE3AJY



Swap Shop

Josef, VE3FVH, (905) 655-3009
KLM 13 El. 2m. Ant. \$50, Balun 2K 1:1 50 ohms \$10, Kenwood Phone Patch, model PC-1 \$90.

Glen, VE3LIZ, (905) 725-1545
NC 29 desk charger for batteries used in FT23R- 33R- 73R, FT 411, 811, 911, FT 470 Price is \$100.

Fred, VE3TIG, (905) 576-4839
Apple Macintosh SE - 20 meg hard drive, Image Writer II printer, Claris Works, MicroSoft Word, Mouse, Mousepad, excellent working order, \$150. Mass 6 meter transverter, Frequency: 50 MHz, input frequency: 28 - 30 MHz tuned to: 50.125 MHz, all modes, .01 to 10 watts in, 10 watts out, New \$150. TPL 2 meter linear amplifier Frequency: 136 - 175 MHz, tuned to:147.000 MHz, modulation:FM, 1 watt in 25 watt out, \$50. Henry 2K-4 linear amplifier, uses two 3-500z tubes, covers 10,15, 20, 40 & 80 meter bands, wired for 240 volts ac, spare set of tubes, \$950.

Doug, VA3BGF, (905) 668-6493
Highgain 7 element HF Triband Beam

for 20-15-10 meters \$700 obo.

Mike, VE3DKW, (905) 723-7674

The next list is from the estate of VE3AEQ Glen. Cushcraft 2 m. 19 element beam \$80, Cushcraft 432 mhz. 24 element yagi \$75, 2 pcs Heathkit Cantenna Dummy Load \$20 each. Large Qty. Assorted Test Equipment, call for info....

Walter, VE3FJC, (905) 263-2338

Heathkit HW 101 HF Transceiver 80 to 10 meters, SSB & CW with matching heathkit Power supply, approx. 100 Watts \$150.00 or best offer.

Gunter, VE3LHM, (905) 263-2180

WANTED - dopler kit for direction finding.

Send all listings to **VE3FJC, Walter** at (905) 263-2338, by packet at VA3BBS, or by phone at VE3OSH 2 meter repeater.

Presidents Message

Hi all. Well this past month was nominations time and there were four new members nominated to fill the positions on the Executive and they are Peter VA3PWH, Allan VA3ALN, Jean-Paul VE3JPT, Ries VE3UEA which they all accepted. I wish them all the best and lets all help and support them anyway we can.

VE3NAA the voice repeater is working again after been down for a while thanks to Glen VE3LIZ, Ralph VE3CRK, Gary VE3EPY. Getting into the site and checking the system and finding out that the controler was not working right, got it fixed and installed.

I was at the Newmarket Hamfest in November and I wore my NSARC tag with my name, callsign, President on it and I met a lot of Hams there. Each person I met asked whats going on with the club and why there isn't a net or code on OSH Thursday evenings like it was these past years. Well I didn't have a nice or good reason to give them, but I tell you all that VE3OSH is listened to alot

and people do listen for Code on Thursdays on VE3OSH and everyone I spoke to gave VE3OSH great reviews. I don't think this will continue if members do not start participating and helping out with the net on Thursday nights. Please get involved and help out.

I want to thank all the members who helped out this past year in all the clubs events. The Christmas get together is on Dec/09/97 at the Red Cross Offices in the Oshawa Centre at 7:30 p.m. I hope to see alot of you there. Please bring along a salad or dessert if you can and thanks.

We hope to have VE3USH packet repeater on the air soon. Glen VE3LIZ and Bob VE3ADJ is working along with me and peter VA3PWH and Earl VE3VGK to see exactly whats wrong with the system. I want to thank Glen and Bob for their time and effort and their diligent work they as put into trying to get VE3USH working again.

I would like to put out an invitation to club members to come out to the December meeting and pick up their merit certificates that was listed in previous club news letters.

Also we finally got a financial statement for the 1997 DRARH which I hope to have added to this news letter. We also have had our first meeting for the 1998 hamfest and if anyone has suggestions or can help on the hamfest committee please get in touch with me, Peter VA3PWH, or Earl VE3VGK. Our next meeting is December 01/97 at the Golden Griddle in the Kmart plaza in Whitby 7:30pm.

It maybe a little early but Seasons Greeting to all!

Howard, VE3TYQ

November Minutes

NSARC Club Meeting Minutes
November 11, 1997

Meeting was brought to order by Howard VE3TYQ at 19:30 hrs. He welcomed all members and visitors. There were two

visitors, Randy VE3MUR and Mary Chalovich.

The members were asked to observe one minute of silence in honour of Remembrance Day.

Membership chair : Les VA3LTB. He mentioned that the club dues would be reduced by \$5.00 to \$25.00 if paid before December 31, 1997, and urged the members to take advantage of these savings.

Treasurers Report: Earl VE3VGK informed the members that there was a net equity balance of \$9915.00 in our bank account as of November 10, 1997.

Packet Committee: Bob VE3ADJ said that there was problems with VA3BBS but hoped to have this rectified soon. Some tests were done on VE3OSH this week and it was thought a preamp would improve its operation. Gary VNEPY commented that VE3NAA has had an IC chip replaced in the controller, and hoped that it might be reinstalled by next week.

Hamfest: Howard VE3TYQ noted that we were still waiting for a final financial report for this event.

Field Day Report: Martha VA3SBD said that we did much better this year, we came 213th which was an improvement. This will be her last year as coordinator and we thank Martha for her efforts.

Xmas Party: Martha VA3SBD is taking care of this event, which will be our next regular meeting. She asked that all members bring cookies, cakes etc..as this was a success last year.

Instead of a guest speaker Mike VE3VCY put on an open forum giving all members who wished the opportunity to voice their opinions in regard to ham radio. Mike started it off with his thoughts and concerns about our operating frequencies, and the danger of losing these privileges to the many commercial properties. He felt that public service events by all radio clubs were a must for future safeguards. He

then opened it up to the members for their own thoughts and comments and the response was a very positive one. The following members gave some very interesting thoughts and experiences in ham radio, and what the hobby means to them. Peter VA3PWH, Dave VA3RLP/KA6RLP, an associate member from California. Randy VE3MUR, Ries VE3UEA, Farny VE3BHQ, Laird VE3LKS, Ivor VE3JMP, Martha VA3SBD, Alan VA3ALN, Earl VE3VGK, Bob VE3ADJ, Jean Paul VE3JPT, Les VA3LTB and Howard VE3TYQ rounded off an interesting and very well received forum, something that could be put on again in the near future.

Martha VA3SBD said that Don Foster VE3JXH was unable to be at this evenings meeting, but he is looking for volunteers again for the Port Perry Kinsman Club dogsled race at Trillium Trails for January 17 & 18. Please help if you can.

Nominations for Executive Committee Peter VA3PWH nominated Howard VE3TYQ. Howard declined with thanks. Howard VB3TYQ nominated Peter VA3PWH. Peter accepted the nomination.

Earl VE3VGK nominated Gary VE3EPY. Gary declined with thanks,

Martha VA3SBD nominated Jean Paul VE3JPT. Jean Paul accepted the nomination.

Peter VA3PWH nominated Ries VE3UEA. Ries accepted the nomination.

Howard VE3TYQ nominated Laird VE3LKS. Laird declined saying that he would continue his editorial duties.

Ries VE3UEA nominated Farny VE3BHQ. Farny declined with thanks.

Farny VE3BHQ nominated Bob VE3ADJ. Bob declined with thanks.

Martha VA3SBD nominated Alan VA3ALN. Alan accepted the nomination.

Howard declared nominations closed. Gary VE3EPY offered a vote of thanks to the present committee for their efforts and Howard VE3TYQ responded with thanks on the committees behalf.

Farny VE3BHQ suggested that an annual banquet might be considered for the future executive to ponder.

Laird VE3LKS motioned to adjourn and was seconded by Les VA3LTB at 22:10 hrs.

Ivor, VE3JMP

RAC Bulletin 97-32E

First donation to RAC Foundation

The Manotick Amateur Radio Group, a small but active community group of about 30 amateurs in and around the town of Manotick, south of Ottawa, have been the first to make a donation (\$220) to the New RAC Foundation.

In a letter to RAC General Manager Debbie Norman, the club secretary treasurer, Jim Devenny, VA3HL, has challenged all amateur radio groups and clubs, large and small, as well as individual amateurs, to follow their lead and make the RAC Foundation a great success.

For full details about the Foundation, and how to make a donation, please visit the following page on this web site.

<http://www.rac.ca/found1.htm>

Jacques d'Avignon VE3VIA

Santa's Callsign is VA3LTB!

That's right folks, it was discovered while cross referencing the Canadian callsign database that Les and Santa have the same call. Is this simply a mistake by an Industry Canada employee while inputting information or is there more to it then meets the eye? Technically, Santa should have a VE8 call if he was licenced in the high Arctic. But lets be realistic here...he only works one day a

year and would you want to float around on an ice flow for 364 days? NO! Instead, Santa (aka Les) vacations those 364 days in balmy southern Ontario, thus the VA3 callsign. Put Les in a Santa suit, stuff a few pillows in, and presto! Santa! But the final piece of evidence supporting this theory did not come to light until the last club meeting. Unable to hold back any longer, Les (...oooops, I mean Santa), disclosed that there would be a reduction of \$5 for anyone who paid their 1998 Full Membership dues before January 1998! You see, Santa knows that us Hams are stingy (like Scrooge) and that the \$5 will be freed up to buy more doo-flickys or coffee and donuts at the next fleamarket we attend. Anyway, make sure you give your cheque to Les (Santa) at the Christmas Party to take full advantage of this 20% discount.

Editors Note: Should you forget to give it to Les at the party, just leave it in an envelope by the milk and cookies on Christmas Eve. Oh, and don't forget to leave some carrots for the reindeer!



A sock on the 2m beam..this must be VE3TYQ's place... Rudolph! Where is the coal!?

Santa Special!
NSARC
"Full Membership"
only \$25 until
December 31!

DURHAM REGION AMATEUR RADIO HAMFEST

1996 FINANCIAL STATEMENT

INCOME

Club Seed Funds from 1995			\$3,021.98
Table Sales	\$4,905.00		
Admissions Receipts	\$6,820.00		
Superprize Receipts	\$1,919.00		
US \$ Exchange	\$40.74		
Interest	<u>\$6.09</u>		
Total Hamfest Income	\$13,690.83	\$13,690.83	

EXPENSES

Metro East Trade Centre - Hall Rental	\$2,782.00		
Rapid Reproductions Printing - Flyers	\$75.90		
Norham Radio Inc - Superprize	\$700.00		
Wylie Insurance - \$2M Liability Policy	\$615.00		
Ainsworth Electric - Electrical Services	\$475.08		
Sargents Rental - Table & Chair Rental	\$2,070.00		
St. Johns Ambulance - First Aid Services	\$140.00		
Canada Post - Mailings	\$160.55		
Stationary Products - Labels, Tickets etc.	\$168.40		
En Kay Industrial Supplies - Rolled Paper	\$94.07		
Bank Charges	<u>\$12.95</u>		
<u>Total Hamfest Expenses</u>	\$7,293.95	<u>\$7,293.95</u>	
<u>Net Income</u>		\$6,396.88	<u>\$6,396.88</u>
<u>Total funds to be transferred to the Clubs</u>			<u>\$9,418.86</u>

Each club is entitled to an equal share, which is $\$9,418.86 / 2 = \4709.43

A cheque for \$4,709.14 will be issued to each Club and the Hamfest Committee will request Advance Funds from each Club of \$1500 for the 1997 Hamfest.

To the best of my knowledge, I declare that this is a complete and accurate report of the financial affairs of the 1996 Durham Region Amateur Radio Hamfest.

George Burns VE3INB

DURHAM REGION AMATEUR RADIO HAMFEST**1997 FINANCIAL STATEMENT****INCOME**

Club Seed Funds from 1996					\$ 3,005.10
	Quantity				
Pre event sales : Table	179	\$	3,580.00		
Pre event sales : Vendor Admissions	224	\$	1,180.00		
Pre event sales : Chairs	4	\$	20.00		
Pre event sales : Power	19	\$	150.00		
At event sales : Table	7	\$	140.00		
At event sales : Vendor Admissions	50	\$	250.00		
Public : Admissions	1020	\$	5,100.00		
Superprize		\$	2,203.00		
Total Hamfest Income		\$12,623.00	\$	12,623.00	

EXPENSES

Metro East Trade Centre - Hall Rental	\$	2,782.00
Entire Printing costs	\$	217.88
Norham Radio Inc - Superprize	\$	700.00
Bryson & Associates - \$2M Liability Policy	\$	540.00
Ainsworth Electric - Electrical Services	\$	475.08
Sargents Rental - Table & Chair Rental	\$	2,262.63
Canada Post - Mailings	\$	209.64
Meeting costs	\$	138.17
Refunds for overpayments	\$	50.00
Long Distance Phone Bill	\$	2.88
Supplies	\$	48.58
Bags	\$	242.66
Bank Charges	\$	12.95

Total Hamfest Expenses \$7,682.47 \$ 7,682.47

Net Income \$ 4,940.53 \$ 4,940.53

Less amount to hold account open \$ 5.63

Total funds to be transferred to the Clubs \$ 7,940.00

Each club is entitled to an equal share, which is \$7,940.00 divided by 2 \$ 3,970.00

A cheque for \$ 3,970.00 will be issued to each Club and the Hamfest Committee will request Advance Funds from each Club of \$1500 for the 1997 Hamfest.

To the best of my knowledge, I declare that this is a complete and accurate report of the financial affairs of the 1997 Durham Region Amateur Radio Hamfest.

Ian Smith VE3ITG

INVOICE

To:	Pay To: North Shore ARC c/o VA3LTB Les Burgess 1456 Tampa Cres. Oshawa, On L1G 6V2
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November 1997

To renew North Shore Amateur Radio Club membership for 1998.

FULL membership (newsletter, right to vote, attending meetings & functions)	Before 31 December 1997	\$25.00
	After 31 December 1997	\$30.00
ASSOCIATE membership (newsletter, attend meetings & functions)		\$25.00
FAMILY membership (full member at same address, no newsletter, right to vote, attend meetings & functions)		\$15.00
DONATION		\$ _____
	TOTAL	\$ _____