

Kilowatter

The voice of the KW Amateur Radio Club
Since 1922

Kitchener-Waterloo Amateur Radio Club

Box 34012 Highland Hills Postal Station;
Kitchener, Ontario N2N 3G2

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Web site: <http://www.kwarc.org>

MONDAY'S MEETING

Date : Monday February 3rd 2003

Time : 7:30pm

Place : RCAF Wing 404 Club. End of Dutton Dr. Waterloo. Off Weber St. N

Topic: **Hackers and Internet Security**

Program Director Wafik will present a meeting on Hackers and Internet Security.



Have you ever wondered what goes on behind your computer machine when you access the Internet. How many times you

gave your personal information and thought nobody see or capture it?

How hackers get into computer systems/networks?

Why hackers hack? What have we done to them to harm us? Are there good (Robin Hood) and bad hackers?

How secure is your security system?! These are few questions that will be addressed in one of the hottest topics in the world of telecommunications and computer networks.

Wafik

Your clubs Meeting Line Up till April

March 3

Bob VE3IKM / VP2MAM

1995...the Soufriere Hills volcano on the island of Montserrat BWI awoke from a 300 year hibernation period. Operating as VP2MAM, our speaker spent approximately 10 months teaching on the island during the peak of volcanic activity and was on the last airplane to leave the island, witnessing the airport destruction as the twin otter's wheels left the runway.

**This is a MUST ATTEND meeting.
Be sure to bring a friend.**

April 7

Our annual Show-n-Tell evening. Have a show and tell item you would like to share with the membership?

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" MAC " SMITH VE3HOO " SK "



Mac passed away early on the morning of January 24th after a courageous battle with cancer. Right to the end, Mac kept a very positive outlook and would always pass on encouraging words about his prognosis to those of us who visited him.

A memorial service will be held Thursday Jan 23 at 3:00 PM at the Mark Jutzi Funeral Home in Milverton. A lunch will be served after the service.

KWARC Directors 2002-03

President	Bill Graham	VE3ETK	576-3578
Vice President	Ben Sasiela	VA3BNY	748-0445
Past President	Dennis Tabbert	VA3DLT	463-9641
Treasurer	Dave Schwartz	VA3DGS	884-3594
Secretary	David Johnson	VA3MRJ	746-8939
Director	Hugh Baird	VE3IYG	684-7257
Director	Tedd Doda	VE3TJD	634-5949

The Executive Committee

Program	Wafic Ajoor	VA3WOA	885-7979
Membership Chairman	Ben Sasiela	VA3BNY	748-0445
Technical	Tedd Doda	VE3TJD	634-5949
Packet Users	Larry Gorman	VE3LGN	884-6782
Database Mgr	Dave Schwartz	VA3DGS	884-3594
Bulletin Editor	Paul Cassel	VE3SY	634-5139
Edu. Co-Ord	Ron Gimbel	VE3DBD	584-2009
Chief Examiner	Vern Stroud	VE3RVS	743-9342
ARES Manager	Larry Gorman	VE3LGN	884-6782
CANWARN Mgr.	Larry Gorman	VE3LGN	884-6782
QSL Manager	Gord Gibson	VE3NOK	893-5148
Virtual Swap-Shop	Dave Schwartz	VA3DGS	884-3594
Bereavement	Marg Cassel	VE3RE	634-5139

KWARC Owned Repeaters/Nodes

Mode	Call	Freq.	PL	patch	Location
Voice	VE3KSR	146.970	Y	member	Baden Hill
Voice	VE3RCK	146.865	Y	member	Kitchener
Packet	VE3KSR-0	145.010			Baden Hill
Packet	VE3KWQ	145.090			Waterloo
Voice	VE3IXY	224.340			Kitchener
Voice	VE3SED	52.370	Y		Baden
Voice	VE3RBM	444.875	y		Kitchener IRLP

Tone Frequencies (PL) for above are all 131.8

Other Area Repeaters/Nodes

Mode	Call	Freq.	PL	patch	Location
Voice	VE3SY	147.570	Y	SIMPLEX	Petersburg IRLP
Voice	VE3ERC	444.700	N		Elmira
Voice	VE3KFM	442.000	Y	open	Kitchener
Voice	VE3RND	145.330	Y		Plattsville
Voice	VE3SWR	146.790	N		Cambridge
Voice	VE3WFM	147.090	N	private	Waterloo IRLP
Voice	VE3WWW	146.835	N		U of W
Voice	VE3RSS	147.030	N	members	Acton
Voice	VE3BAY	442.350	N		Kitchener
Voice	VE3ZMG	145.210	N	Open	Guelph
Packet	VE3VIQ	145.570			Guelph
TCP/IP	VE3MKY	145.570			Guelph
TCP/IP	VE3UOW	145.570			U of W BBS

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Members On-Line are urged to use this medium so as to minimize mailing costs.

Message from the President

Bill Graham VE3ETK President KWARC

Greetings once again to all of our members, whether you read this 'on-line' or from paper.

Those present at the last meeting will recall that I asked for a show of hands on who read the newsletter in which manner. It was, first of all, my own curiosity coming into play. I think we have an extremely fine news letter that is enhanced with colour and better looking pictures than the print version. I encourage everyone who has access to a computer and the internet to read your newsletter this way. At the same time I recognize that there are those who can't do that and paper is their only alternative. Whatever you do, READ the KILOWATTER! It's your club and the newsletter is one of the 'glues' that holds us all together.

At the same time, I encourage all who can to use the on-line as it saves the club a pile of money each month, and that means keeping your membership costs down.

The re-organization of KWARC's Emergency Services is moving along very nicely, and I expect you will be hearing more from Larry Gorman on this shortly (maybe even in this issue). The club has had a nice number of volunteers for this service and I, once again, thank all of those who did so. I know Larry has followed up with you, but sometimes a Gremlin creeps into the system - particularly clubs - and if you volunteered

and didn't hear anything back, please contact one of us. WE NEED YOU, and did not intentionally forget you.

It seems that my recent 'Prez Sez' columns have all had something in them about volunteers. Sorry, but here we go again. First of all, a club is made up solely of volunteers, so it's not surprising that we frequently bring up the need. It's your volunteering that keeps the club going - so if you enjoy the club volunteer for something.

Fred LouwecVE3OQB has had to drop the coffee duty starting with March until the end of the season due to health matters. Many many thanks to Fred for his service to the club. We need someone to pick this up. As I said at the last meeting, "this is simple; no volunteer, no coffee and doughnuts!" Hey, weren't those Krispy Kreme's good last month?

Of vital importance to the club is the need for a new Kilowatter Editor! Paul, ably assisted by Marg, have done yeoman service, and the members can be proud of their newsletter. A great big thanks to you both! However, all good things often change. The time has come that they want a little more free time and have said they will 'retire' from this service with the end of the season.

I had hoped to take it on once I was Past President, but other obligations have intruded into that plan, so we (the

members of KWARC) need to come up with a new Editor. Paul has said he will continue with the Web Site work, so that mean the assembly of items submitted by the Executive and others, printing, and mailing, etc. It doesn't look too onerous, if you have a bit of time. There is still time for Paul to train the new volunteer if you act now! KWARC has a standard of excellence to live up to. Be the one to keep the Kilowatter excellent!

Field Day approacheth! A coordinator is required. It's a fun weekend and there are lots of people who can fill you in on what needs to be done - most of it ahead of time.

Paul, as our Editor, passed on to me that the mysterious QRV got two replies to his question about how many were reading his column. They were both very complimentary. But, that's a lot of work and print space for just two readers. QRV is apparently off on vacation somewhere (catching rare DX I hope), but although these two readers really enjoyed his column, it must surely be disappointing. Perhaps he will receive more good feedback and return to print after he is back.

I think I've forgotten something I wanted to add here. Sorry, you'll just have to come to the next meeting and find out what it was.

73 Bill VE3ETK

QRV indicated future topics will touch on items of interest around the club as well as operating procedural tips . If anyone has any tips they would like to leave for QRV, they can be e-mailed to QRV@KWARC.ORG and it will be auto forwarded to the anonymous QRV

According to e-mail just in, QRV is taking a Florida vacation. .

de QRV

[30]

Editors Note:

The anonymous QRV really is wondering if anyone is reading the column? Feel free to agree or disagree or even submit your second opinion or even your own feelings on ham radio and/or our hobby. qrv@kwarc.org

Paul

The KWARC Account Summary from December 23 – January 23

The following spread sheet is the account activity over the last 30 days. All revenues and expenses are detailed below. If anyone has any questions please contact the club treasurer Dave Schwartz VA3DGS at VA3DGS@RAC.CA

Description	Amount	
Balance forward		4264.96
Revenues		
KWARC Membership		
KWARC Membership fees	90.00	
Group total:		90.00
Club meeting revenue		
KWARC 50/50 draw revenue	14.75	
Group total:		14.75
Revenue total:		104.75
Expenses		
Bulletin expense		
Postage exp.	51.36	

Group total:		51.36
Capital expense		
Equipment, supplies exp.	9.08	
Group total:		9.08
Club Meeting expense		
Speaker certificate exp.	25.00	
Group total:		25.00
Special event expense		
Trophies, plaques exp.	83.91	
Group total:		83.91
Expense total:		169.35
Revenues less expenses		-64.60
New Balance:		\$4,200.36

Thinking of Selling or Buying a home?

Dave Johnson VA3MRJ recently joined Peter Benninger Realty and would be glad to assist you with any real estate transaction.

Give Dave a call at 742-5800 or e-mail him at va3mrj@rac.ca



David Johnson
Sales Representative

Coldwell Banker Peter Benninger Realty
508 Riverbend Drive
Kitchener, ON
Canada N2K 3S2

tel: (519) 742-5800
fax: (519) 742-5808
email: david-johnson@coldwellbanker.ca
web: realtors.coldwellbanker.ca/david-johnson



Our Last Meeting

by Wafik Ajoor VA3WOA

Laughs, cheers, fun, and excitement are few words to express the atmosphere we had at our January meeting.

Ben's quiz was highly animated, full of multimedia (sound, video, image clips, and cartoons), and PowerPoint-based contest on Radio knowledge and club activities. All this made the electronic night quiz very interactive and enjoyable.

Our president's tease to strip off our

radio license qualification, should we fail the quiz, may have made some if us think twice before participating in the quiz! In fact, some of us may have questioned his/her basic and advanced qualifications when the quiz results announced the winner to be a new ham!

Many thank to Ben for making January meeting a very enjoyable and successful night. Also, I would like to thank our members and guests for their

participation in this challenging but funny event.

Wafik Ajoor
Program Chair, KWARC
VA3WOA



After installing the new equipment (Mastr II) for VE3KSR, there have been few problems. This is a good thing, as all the snow we've had over the last month have made

the Baden Hill next to impassible to normal vehicles! If you want to report any problems with any of the club owned equipment, visit the "Trouble Log" on the web site. This will inform the entire Tech Committee about your issue.

LED's - are they only used for indicators?

I read a very interesting article in one of the technical magazines about the uses of LED's (Light Emitting Diodes). It surprised me to what extent people use these things for. Of course, their main purpose in life is to be used as an indicator, either stand alone or within a display. We've all seen the likes of clock radios, car stereos, alarm panels and even Ham radios using the old standby red and green LED's being used for the time or frequency readout. Now, with advent of HIGH output LED's, we are seeing them on cars and trucks (for tail lights) and even traffic lights!

Some interesting facts about LED's:

- if used at their design current, a standard LED has life expectancy of 100,000 hours (or about 11 years of

continuous duty!), before the output drops to 50%

- they are available (currently) in red, green, blue, yellow, and white with more colours being added almost monthly
- the more current you apply to an LED, the more light energy they will output
- if you double the current going into an LED, the life expectancy drops from 100,000 hours down to 2,000

What else can they be used for:

Do you know what a varactor diode is? This is a special diode that changes it's capacitance if the voltage across it changes. This is mainly used in tuning applications like your TV and Ham radio. If you can remember back to the old VCR days when you had to manually tune each station you wanted to watch into each of the 12 or 13 memory locations, many times you were tuning a capacitor within the tuner. The varactor diode replaces this mechanical tuner and is controlled by a microprocessor.

Well, a standard LED exhibits this characteristic as well. People are using the intensity of the LED to get a visual idea on where the circuit is tuned to!

LED's also have an almost linear response to temperature. Do you have one of those digital outdoor thermometers? At the end of the wire that you have to run outside there is usually a normal diode, or transistor junction. The problem with these is that they aren't very linear, meaning

that they don't change proportionally to temperature. The electronics within the digital readout has to make corrections for this non-linearity. Here comes the LED to the rescue! A standard red LED changes it's intensity almost perfectly linearly over the temperature range of -30 degrees C to 70 degrees C!

LED's have a threshold (or working) forward voltage. This voltage changes depending on what colour of LED you use. Red LED's have the lowest forward voltage (about 1.2 volts) and blue has the highest (about 5.5 volts). The neat thing about this forward voltage is that it acts like a ZENER diode. So, what does that mean?

A zener diode basically works like a regulator. Once the forward voltage is reached, the zener starts to conduct, trying to hold this voltage. The LED exhibits the same characteristic, only that the LED does it better at lower current flow. The drawback to using an LED is that it is limited to the maximum current it will handle, usually about 30 or 40 mA, which is still plenty enough to drive many power supply pass transistors. So next time you are building a 12 volt power supply for your Ham radio, use a string of 10 red LED's for voltage regulation (10 x 1.2 volts = 12 volts) instead of a 12 volt zener!

Now go do some experimenting :)

73, de Tedd - VE3TJD

KWARC Tech Chairman

Rollover on Route 104, New Mexico

Submitted by Ron Gravelle VA3TVS/W5



While on a scenic drive along route 104 in New Mexico, Ron Gravelle, VA3TVS, came upon a single vehicle rollover accident. The location was 70km east of Las Vegas, New Mexico, where the State Police is located.

Being the first person on scene, he stopped, and assessed the situation. The driver had crawled out of the

front passenger side window, which was smashed on impact. He had no lacerations to his head or torso, just some minor cuts on his right elbow. While waiting for the Police to arrive, there was no other traffic along this stretch of road.

Needless to say, this driver was fortunate this accident didn't happen after dark.

73 Ron VA3TVS/W5

Minutes of General Meeting

recorded by Secretary Dave Johnson VA3MRJ

37 members and guests attended the meeting.

President Bill called the meeting to order at 7:37.

President Bill requested a volunteer for Field Day Manager and more importantly announced that we need Coffee and Donut Manager, Fred will be on a leave of absence for the rest of the year. Remember, no volunteer, no coffee and donuts, so if you can help out, give Bill a call.

President Bill called for a showing of hands to see how many members read the bulletin, most hands went up, he then asked for a show of hands who read it online, fewer read on line but still a large number read on the internet.

A request was made for a new Bulletin Editor, Paul wishes to retire. He will train a replacement.

Ron VE3DBD gave a report on the beginning class for new Amateurs. Proposed start date is April first. Location is still under review due to the closing of St Mary's high school.

Vern VE3RVS announced that Ed Spike trained Venture Scouts for their licence and he had four basic and two advanced pass the test.

50/50 draw was won by a new ham, James Tisdale VA3TNG.

Dave Swartz said we have received application forms for membership in the quarter century club, if you qualify and are interested give him a call.

Motion to adjourn by Paul VE3SY and seconded by Mary VE3AOR

Minutes of Exec Meeting

recorded by Secretary Dave Johnson VA3MRJ

Present: President Bill VE3ETK, Secretary David VA3MRJ, VP Ben VA3BNY, Hugh VE3IYG, Past President Dennis VA3DLT.

Meeting called to order at 7:35

Bill asked for clarification on an agenda item that has been carried forward for several meeting. David J gave a brief explanation of the proposal to multi couple to a commercial uhf antennae at Baden but it was decided to refer all technical issues to Ted and remove all items from the agenda until Ted attends a meeting.

Discussion on the value of having two phone patches, it is still felt that there is value to the members and a phone line is required at Baden for safety purposes

and tech committee use so two patches will remain.

Motion to pay Ben back for a donation to the Teachers Choir of \$ 25.00. David J seconded by Dennis. Passed

Dave Swartz updated us on the new banking arrangements, saving the club about \$ 60.00 per year.

Dave Swartz motion to authorize IGS to not renew the domain name KWARC.ON.CA, seconded by Ben. Carried.

David Swartz motion to continue the current donation policy to the CNIB of \$

100.00 annually and \$ 25.00 for each active ham who becomes a silent key. Seconded by Hugh, carried.

Bill will check with Marg to see if she is advising families of silent keys about the donation on their behalf.

David J was directed to send letter to Doon Pioneer Village thanking them for last year and requesting space for next year field day.

David Swartz, motion to adjourn the meeting.

Welcome New Members

Please join your Executive in welcoming the following new members to KWARC. It is encouraging to see the number of associate memberships we are receiving from distant locations

Dave Parkin VA3MJP
296 West Acres Dr.
Guelph ON
N1H7P1

Ralph Cameron VE3BBM
30 St.Remy Drive
Ottawa ON
K2J 1A3

Carlo Cervoni VE3CVA
187 Niagara Street
London ON
N5W 1R7

Wayne Nelms N4DCL
9124 Farmington Dr
Richmond VA
23229

On the next few pages you will find an updated list of all current club members including those up to 30 days in arrears on their dues.

Associate membership is only \$10 and full membership is still only \$20/year and \$10/yr for seniors. This includes full access to all club phone patches as well as all three IRLP nodes.

BEGINNERS CLASSES

Please pass the word on our 2003 Course . Contact Ron VE3DBD for full info at 584-2009

DATE:	The next Basic Class will commence approx April 1st, 2003
SCHEDULE:	Classes are held two evening a week (Tuesday and Thursday) The Industry Canada Licence Exam being held on the final class day
TIME:	19:30 - 22:00 (7:30pm - 10:00pm)
PLACE:	TBA

KWARC Membership Roster including members up to 30 days in arrears

VE3XM	Bob	Abell	14 Parkview Dr. R.R #1	Wellesley	N0B2T0	656-9940	abellve3xm@sympatico.ca
VA3WOA	Wafik	Ajoor	316-161 University Ave	Waterloo	N2L 3E5	885-7979	wajoor@yahoo.com
VE3DUA	Dave	Allen	53 Glen Avon Cres	Kitchener	N2N 1C2	570-4607	ve3dua@kwarc.org
VE3NTA	Nicolas	Anbeek	33 Cardigan St. #707	Guelph	N1H 3Z5	836-7506	
VE3HDV	Dave	Anderson	10 GRANT STREET	CAMBRIDGE	N1S1B7	624-0778	tgif13@sympatico.ca
VA3JHB	Mary Jane	Aver	282 Sandowne Dr,	Waterloo	N2K 2C2	888-7656	aver@sympatico.ca
VE3WDL	Bill	Aver	282 Sandowne Dr.	Waterloo	N2K 2C2	888-7656	aver@sympatico.ca
VE3ARQ	Fred	Baehr	9 Lodge St. #105	Waterloo	N2J 4S5		
VE3IYG	HUGH	BAIRD	R.R. #1	BRIGHT	N0J 1B0	684-7257	hugh-baird@excite.com
VE3SWU	Alan	Baker	358 Bushview Cr	Waterloo	N2V 2A5	888-7123	alan.baker@sympatico.ca
VE3FVF	Robert	Barton	26 Forler St.	Baden	N3A 2L3	634-5382	
VE3BFH	EDWARD	BEATTY	145 CHELFORD CRESCENT	WATERLOO	N2J 3T6		
VE3PWB	Paul	Bechtel	146 Water St. BOX 341	St. Jacobs	N0B 2N0	664-3614	pjbechtel@sympatico.ca
VE3JLB	Joyce	Bechtel	146 Water St.	St. Jacobs	N0B 2N0	664-3614	pjbechtel@sympatico.ca
VA3LLB	Louis	Beilstein	20 Blackfriars Pl.	Kitchener	N2A 1M5	893-5245	
VE3CSB	David	Bell	40 Bradley Place	Kitchener	N2A 2B3	895-2577	dbell@kw.igs.net
VA3BEX	Kenneth	Bexon	296 Wilson Ave.	Kitchener	N2C 1H4	893-6607	
VA3JMB	Jim	Blackwell	71 Wren Place	Kitchener	N2A 1L8	894-5432	ji4m@kw.igs.net
VA3REI	Reinhart	Blasig	458 Driftwood Dr.	Kitchener	N2N 1S6	749-1231	va3rei@rac.ca
VE3KIS	John A.	Blom	54 Wellington Rd. 7	Elora	N0B 1S0	519-846-0861	sirjohn@sympatico.ca
VE3CD	TED	BODMAN	3 CHELFORD PL	WATERLOO	N2J 3T8	885-6223	ve3cd@kwarc.org
VA3PTB	Peter	Bon	123 Vintage Cres.	Kitchener	N2P 1L1	748-1430	
	LARRY	BOSHART	2138 WITMER RD. RR#2	PETERSBURG	N0B 2H0	696-3585	larbosh@gate-way.net
VE3PAY	Christopher	Brand	51 Shrewsbury Street	Stratford	N5A 2V4	273-4505	cwsbca@yahoo.ca
VE3CWL	Alle	Brander	P.O. Box 37	Sebringville	N0K 1X0	393-6517	
VE3DWH	Harold	Braun	309 Albert St.	Waterloo	N2L 3T9	884-2388	ve3dwh@kwarc.org
VE3EUC	Ralph	Brubacher	62 Centre St.	Elmira	N3B 2V8	669-2873	
VA3IGB	Ian	Bucknell	173 White Pine Cr.	Waterloo	N2V 1B3	747-2941	ian.bucknell@rogers.com
VE3BBM	Ralph	Cameron	30 St.Remy Drive	Ottawa	K2J 1A3	613-825-1634	ve3bbm@rac.ca
VA3DC	Doug	Campbell	3646 Shadow Creek Road	Orillia	L3V 6H3	705-689-2422	doug.campbell@encode.com
VE3BSK	Edward	Carey	110-130 Lincoln Rd.	Waterloo	N2J 4N3	886-6697	
VA3JSC	Jane	Carr	235 Hoffman St.	Kitchener	N2M 3N5	743-7385	jscarr@golden.net
VE3SY	Paul	Cassel	P.O. Box 29	Petersburg	N0B 2H0	634-5139	paul@ve3sy.com
VE3RE	Margaret	Cassel	P.O. BOX 29	PETERSBURG	N0B 2H0	634-5139	ve3re@rac.ca
VE3LCR	Wallace	Caughell	332 Longfellow Drive	Waterloo	N2L 2S3	519-885-5767	
VE3SXK	Andy	Cavaliere	24 Orchid Cres.	Kitchener	N2E 3N2	519-742-0123	ve3sxx@rac.ca
VE3CVA	Carlo	Cervoni	187 Niagara Street	London	N5W 1R7	519 453-1175	ccervoni@rogers.com
VE3BCJ	Michael	Chatel	615-57 Union St E.	Waterloo	N2J 1B9	585-7598	mchatel@rogers.com
VE3VCL	Lorraine	Clausi	1 Finch Place	Elmira	N3B 3B3	669-8633	ve3dcc@kwarc.org
VE3DCC	Rich	Clausi	1 Finch Place	Elmira	N3B 3B3	669-8633	ve3dcc@kwarc.org
VE3EWN	Paul	Coles	68 Hadati Rd.	Guelph	N1E 6H1	837-2440	pjcoles@sentex.net
VE3CRF	Paul	Crawford	28 Chartwell Cres.	Guelph	N1G 2T7	519-822-1207	pg.crawford@sympatico.ca
VE3OU	Ernie	Crump	790 Regent St	Cambridge	N3H 2V3	653-9743	ve3ou@rac.ca
VE3LLK	Jack	Dahlgren	250 Keats Way #23	Waterloo	N2L6J5	886-8358	jdahlgren@sympatico.ca
VE3TPZ	James	Davidson	65 Young St.	Stratford	N5A 1J5	273-1397	ve3tpz@rac.ca
VE3IKM	Robert	Day	267 Cyrus Street	Cambridge	N3H-1H2	519 -650-2388	windship36@hotmail.com
VE3KZA	MARG	DEWAR	5463 Deborah Glaister Line R#2	WELLESLEY	N0B 2T0	656-2951	
VE3TJD	TEDD	DODA	21 SNYDERS RD.	BADEN	N0B 1G0	634-5949	lazer@sentex.net
VE3EUU	John	Doidge	232 Dearborn Blv	Waterloo	N2J 4Y4	885-5414	ve3euu@aol.com
VE3CBX	Jonathan	Doll	98 Stonecairn Dr.	Cambridge	N1T 1W5	624-7020	jdoll@rim.net
VE3MFR	Terry	Doll	60 Linda Dr	Cambridge	N3C 3W4	519 658-0283	ve3mfr@rac.ca
VE3BDP	Wayne	Doran	41 Trailview Drive	Kitchener	N2N 1P7	741-5306	w.doran@computer.org
VA3EJD	John	Duimering	247 Maurice St.	New Hamburg	N3A 2H8	662-39833	
VE3EIX	HARRY	EIX	RR #1	ELMIRA	N3B 2Z1	669-2028	ve3eix@kwarc.org
KC2FTN	Mike	Elcsisin	P.O. Box 371	Philadelphia	13673		
VE3ARB	Randy	Elsby	118 Overlea Drive	Kitchener	N2M 1T1	742-5236	cr.elsby@sympatico.ca
VE3AIM	John	Enns	461 Glasgow St.	Kitchener	N2M 2N3	744-6687	john@pwl.on.ca
VE3BB	Eric	Enns	119 Marshall St.	Waterloo	N2J 2T6	885-5216	eenns.ve3bb@sympatico.ca
VE3GWE	Gordon	Euler	1704 - 6 Willow Street	Waterloo	N2J 4S3	519-746-6144	gordon.euler@sympatico.ca
VE3KGF	Keith	Fawcett	820 Burford Delhi Townline RR 3	Scotland	N0E 1R0	446-3392	keith.fawcett@sympatico.ca
VE3RDF	Roy	Fischer	224 Ingleside Pl.	Kitchener	N2M 2H2	578-2098	
VE3ESE	Donovan	Fisher	48 Lucerne Drive	Kitchener	N2E 1B3	578-7328	ve3ese@kwarc.org

VE3ZZO	Dave	Fisher	12 Dupont St. W. #207	Waterloo	N2L 2X6	886-0465	tekapo@golden.net
VE3IQP	William	Fletcher	448 Hillside St.	Waterloo	N2K 2P5	885-2288	waf@sentex.net
	Mark	Fontes	384 Greenbrier Rd	Cambridge	N1P 1C1	622-1284	highflight@rocketmail.com
ve3hfa	Harro	Frehe	61 Limerick Drive	Kitchener	N2P 2G9	653-8620	hfrehe@sympatico.ca
VE3WLL	William	Fretz	614 Victoria St. South	Kitchener	N2M 3B1	743-6689	ve3wll@kwarc.org
VE3FRE	Ronald	Fretz	614 Victoria Street South	Kitchener	N2M 3B1	743-6689	ve3wll@kwarc.org
VE3NQM	WALTER	FUHR	P O BOX 244	TAVISTOCK	NOB 2R0	655-2164	wfuhr@cyg.net
VE3UTJ	Norman	Gardiner	P24 - 170 Erb Street W.	Waterloo	N2L 1V4	885-0832	
VE3SNQ	ARNOLD	GERRISH	132-139 DAVID BAUER DR	WATERLOO	N2L 6L1	883-0540	
VE3NQK	GORD	GIBSON	102 GRAND RIVER BLVD	KITCHENER	N2A 2T1	893-5148	ve3nqk@kwarc.org
VE3DBD	Ron	Gimbel	1-89 Westmeadow Dr.	Kitchener	N2N 3N1	584-2009	rongim@sympatico.ca
VE3CBQ	Jean	Gimbel	1-89 Westmeadow Dr.	Kitchener	N2N 3N1	584-2009	
VE3LGN	Larry	Gorman	549 Fallingbrook Drive	Waterloo	N2L 4N2	884-6782	lawrgorm@enoreo.on.ca
VE3ETK	BILL	GRAHAM	91 HILLSBOROUGH CR.	KITCHENER	N2E 1J5	576-3578	wrgraham@sympatico.ca
VA3TVS	Ron	Gravelle	66 Wildark Cr.	Kitchener	N2M 3E9	569-8746	va3tvs@rac.ca
	Shana	Green	605 Belmont Ave. W. #4	Kitchener	N2M 1N4	571-0090	shannban@rogers.com
VE3APG	Paul	Grousopoulos	124 Montcalm Drive	Kitchener	N2B 2R5	893-3548	paulgrou@yahoo.com
	Christa	Guckenburger	93 Lynnhaven Court	Kitchener	N2M 5L8	579-3972	cguckenberger@worldaccess.com
VE3BBK	Jason	Guckenburger	93 Lynnhaven Court	Kitchener	N2M 5L8	579-3972	cguckenberger@worldaccess.com
WB2ASH	JIM	HALL	20 CLARK ST.	PHILADELPHIA	13673		
VE3XOO	Robert	Hammer	3820 Nafziger Road RR2	Wellesley	N0B 2T0	656-2159	ve3xoo@kwarc.org
VE3WMH	Bernard	Harrington	243 The Lions Gate	Waterloo	N2L 6M5	880-1676	
VE3BAH	Bingham	Harris	110 Northside Dr.	St. Jacobs	N0B 2N0	664-1317	pigeons@kw.igs.net
VE3FQT	MURRAY	HARRISON	4 Graham St. R.R. # 1	ELORA	N0B 1S0		
VA3JRH	Jim	Hayhow	104 Water St	Stratford	N5A 3C2	519-271-5203	va3jrh@kw.igs.net
VA3LWH	Lynda	Hayward	48 Schweitzer St.	Kitchener	N2K 1B4	744-7205	
VE3GIM	Gwilym	Hayward	48 Schweitzer St.	Kitchener	N2K 1B4	744-7205	
VA3CTG	Colin	Hayward	48 Schweitzer St.	Kitchener	N2K 1B4	744-7205	
VE3EOS	Gord	Hayward	48 Schweitzer St.	Kitchener	N2K 1B4	744-7205	ghayward@uoguelph.ca
VE3HEB	Marc	Hebert	148 Pneida Place	Kitchener	N2A 3G4	893-3122	mhebert@golden.net
VE3JMU	Jim	Heidmiller	205 Royal St.	Waterloo	N2J 2H8	744-8575	
VE3MTS	Fred	Hicks	52 Wilkins Dr.	Kitchener	N2E 1L2	579-2367	fred.hicks@sympatico.ca
VA3MAH	Mark	Holden	343 Willow St	Stratford	N5A 3B8	(519) 273-1371	va3mah@rac.ca
VE3NXB	Greg	Hollinger	42 Hillcrest Lane	Kitchener	N2K 1S8	742-7331	ve3nxb@kwarc.org
VE3HKJ	Jack	Holmes	26 Country Creek Dr	Baden	N0B 1G0	634 8943	jack@holmespun.com
VE3RVH	Reginald	Horney	45 Larkspur Cres.	Kitchener	N2M 4W8	745-7619	
	Daniel	Hunt	69-35 Breckinridge Dr.	Kitchener	N2B 3H5	748-4581	brity10@sympatico.ca
VE3HTU	Richard	Hutchinson	68 Grandridge Cres.	Guelph	N1H8G3	519 822-0478	rhutch@rogers.com
	alan	hutchinson	1 york place	cambridge	N1R 3P6	623 3453	alhutch@sentex.ca
VE3IXC	Rex	Hygate	25 Broadview Ave	Cambridge	N1R 3V6	519 623 1783	rhygate@sympatico.ca
VE3HRM	Harm	Jager	1079 Kirkwall Rd. R.R.1	Dundas	L9H 5E1		
VA3JLJ	Jeff	Jennings	32 Rochelle Dr.	Guelph	N1K 1K9	831-9193	jennings@golden.net
VA3MRJ	DAVID	JOHNSON	56 Onward Ave.	Kitchener	N2H 3J9	569-8782	va3mrj@rac.ca
VE3CPI	Bob	Jones	104 Rennie Dr.	Kitchener	N2A 1J6	893-5709	robjones@sympatico.ca
VE3ABZ	A.J.	Kinnee	403 Lee Ave.	Waterloo	N2K 2G4	888-6655	ve3abz@rac.ca
VE3JGK	Gary	Kornstein	11 Lyle Place	Kitchener	N2B 2J7	896-2396	VE3JGK@rac.ca
VA3JPL	Pierre	Lacroix	53 Gaw Crescent	Guelph	N1L 1H9	519 826-2098	jpacroix@sympatico.ca
VA3EZT	David	Lamb	RR #2	Tavistock	N0B 2R0	462-2303	va3ezt@rac.ca
VA3LEE	MARIE	LEE	44 LAURIS AVE.	CAMBRIDGE	N1R 5L4	519-621-7547	
VE3LEE	NEIL	LEE	44 LAURIS AVE.	CAMBRIDGE	N1R 5L4	519-621-7547	ve3lee@rac.ca
VE3SJV	John	Lindsay	98 Brewery St.	Baden	N3A 2S7	634-8480	jclind@sentex.net
VA3DML	Dave	Linnerth	622 Red Pine Drive	Waterloo	N2V 1R9	884-9382	
VE3OVO	John	Linnerth	622 Red Pine Drive	Waterloo	N2V 1R9	884-9382	jklinn@kw.igs.net
VE3OQB	Fred	Louwe	10 Pinnacle Dr.	Kitchener	N2P 1B7	519-896-6178	ve3oqb@rac.ca
VE3MLI	Martin	Loveridge	174 Thames St. S.	Ingersoll	N5C 2T5	485-2131	martin@indel.ca
VE3TJE	Brian	Lowe	416 Flannery Dr.	Fergus	N1M 3P4	843-5562	brian.lowe@sympatico.ca
	Brian	Lowery	34 Pinedale Court	Kitchener	N2E 1K9	742-9733	blowery@golden.net
VA3WCM	WALTER	MABEE	BOX 1021	NEW HAMBURG	N0B 2G0	662-2102	wallyhawk@golden.net
VA3OMT	Ted	MacDonald	239 Arris Cres.	Mitchell	N0K 1N0	348-8719	
VE3IAP	BILL	MAKIN	1006-58 BRIDGEPORT RD. E.	WATERLOO	N2J 4H5	746-6927	bmakin@kw.igs.net
VA3HQ	Wally	Mansz	115 Westwood Dr #109	Kitchener	N2M 2K7	570-3250	va3hq@rac.ca
ve3cez	Glenn	Marett	796 Graham Bell Cr.	Milton	L9T 3T2	(905) 876-4763	
VE3GLU	Paul	Marquardt	43 Queensdale Cr.	Guelph	N1H 6W5	836-3835	pmarquardt@golden.net
VE2DC	Mel	Martin	897 Haute Riviere	Ste. Martine	J0S 1V0	(450) 427-2256	ve2dc@rac.ca

WM2002	William	Martin	128 Montcalm drive	Kitchener	N2B 2R5	893-3788	bim@sentex.net
VE3MTC	John	Matic	87 Georgian Cres.	Kitchener	N2B 3N8	743-5235	
VE3TRW	RANDY	MAWSON	7 South Street East	Aylmer West	N5H 1P5		
VA3EGM	Edgar	May	P.O. Box 1	ELORA	N0B 1S0	846-5732	emay@sprint.ca
VE3ZOA	Robert	McCauley	118 Forest Hill Dr.	Kitchener	N2M 4G3	576-1056	bmccaule@wlu.ca
VE3FMA	FRED	McCAULEY	118 FOREST HILL DR.	KITCHENER	N2M 4G3	576-1056	
VE3BM	Bill	McElroy	16 Dogwood Place	Cambridge	N3C 2Z4	654-9573	ve3bm@golden.net
VE3KVD	Thomas	McKay	121 Devon St.	Stratford	N5A 2Z8		
	Terry	McKenna	575 George St.	Woodstock	N4S 4J7	539-7968	terry.j.mckenna@rogers.com
VA3MCK	Robert	McKie	164 Brookside Cr.	Kitchener	N2N 1H1	579-2333	va3mck@rac.ca
VA3JHM	Joe	Mewes	504 Ephraim St.	Kitchener	N2B 2C6	579-2865	mewes@kw.igs.net
VE3DWM	DON	MICHALAK	RR #1	DRUMBO	N0J 1G0	463-5494	donmichalak@kw.igs.net
VA3LAW	PETER	MILLER	R.R. #1	ST. AGATHA	N0B 2L0	634-5540	pmiller@kw.igs.net
VE3YBM	Bruce	Montgomery	78 Charles Street	Stratford	N5A 5X7	271-7049	
	Greg	Mudford	P.O. Box 527	New Hamburg	N0B 2G0	662-2791	
N4DCL	Wayne	Nelms	9124 Farmington Dr	Richmond	23229	804-750-2878	n4dcl@nelmsusa.net
VE3KIN	Dean	Neuert	73 Liam Dr.	Ancaster	L9G 4Y1	(905) 304-5283	deanneuert@hotmail.com
VA3RTN	Ross	Newkirk	40 Combermere Cres.	Waterloo	N2L 5B1	884-0985	newkirk@watserv1.uwaterloo.ca
VE3HQS	Irwin	Nikelski	86 William N.	Wellesley	N0B 2T0	656-2317	nikelski@kw.igs.net
VA3ERF	FRED	O'ROBKO	229 CEDAR DR	TURKEY POINT	N0E 1T0	426-7946	
VE3JVO	JEFF	O'ROBKO	37 FOREST GLEN CRT	KITCHENER	N2N 1E1	576-5611	
VE3DYY	GERRY	O'ROBKO	37 FOREST GLEN CRT	KITCHENER	N2N 1E1	576-5611	gerry.oroeko@bell.ca
VA3LVO	Victor	Orr	37 Orchard Mill Cr.	Kitchener	N2P 1T2	895-2088	lvo@sympatico.ca
VA3RRP	Rene	Paquin	69 Second St.	Elmira	N3B 1H6	669-1706	rpaquin@wlu.ca
VA3MJP	Dave	Parkin	296 West Acres Dr.	Guelph	N1H7P1	519-822-3917	va3mjp@rac.ca
VA3KMP	Keith	Pauli	803-135 Confederation Dr	Kitchener	N2B 1W1	744-1673	
	Mike	Payne	69 North Park Cres.	Woodstock	N4S 7M1	537-7082	
VA3JAP	Jaan	Pedjase	527 Cairncroft Pl	Waterloo	N2J 2J5	884-3386	heatpedj@enoreo.on.ca
VE3XNB	Bob	Pelling	301-235 Morgan Ave	Kitchener	N2A 2M7	893-4712	ve3xnb@rac.ca
VE3DEQ	NORM	PERRAULT	553 TEAKWOOD DR	WATERLOO	N2L 4L5	884-0447	
VE3AYZ	ARWED	PIETREK	209 OTTAWA ST. N.	KITCHENER	N2H 3K9	579-5888	
VA3ZED	Ted	Pimm	92 Adam Street	Cambridge	N3C 2K6	220 0345	
VE3BBL	Darrel	Pond	1298 King St. N	St. Jacobs	N0B 2N0	664-2483	iggy154484@aol.com
VE3BBU	Josh	Pond	1298 King St. N	St. Jacobs	N0B 2N0	664-2483	iggy154484@aol.com
VE3JNP	Justin	Pond	1298 King St	St. Jacobs	N0B 2N0	664-2483	ve3jnp@aol.com
VE3WBX	BRUCE	REINHART	42 TROY ST.	KITCHENER	N2H 1L8	744-5749	
VE3SYJ	PAUL	REITZEL	111 SUNPOINT CR.	WATERLOO	N2V 1T5	746-8291	pri@kw.igs.net
VE3AOR	Drew	Riddell	38 Kingsley Cres.	Waterloo	N2L 1P7	886-5920	ve3aor@kwarc.org
VE3WFR	Bill	Riddell	368 Wellington St. N.	Kitchener	N2H 5L2	571-9785	ve3wfr@rac.ca
VE3MWE	Mary	Riddell	38 Kingsley Cres.	Waterloo	N2L 1P7	886-5920	ve3aor@kwarc.org
VA3ERX	Alex	Riddell	368 Wellington St N.	Kitchener	N2H5L2		
VE3AMZ	John	Riddell	451 Cedarcliffe Dr	Waterloo	N2K 2J1	576-5858	jjr@attcanada.ca
VA3LRX	Leonard	Ritza	280 Forfar St. E.	Fergus	N1M 2X7	519 -843-7604	lritza@golden.net
VA3XTO	Eric	Ritzmann	101 Randerson Ave.	Kitchener	N2H 3L8	745-3204	va3xto@rac.ca
VA3GUS	Janet	Robertson	26 Dumfries St.	Cambridge	N1S 1Y7	623-2390	
VE3GFR	Garry	Robertson	26 Dumfries St.	Cambridge	N1S 1Y7	623-2390	
VA3LDA	LINDA	ROBERTSON	20 LOCUST STREET	KITCHENER	N2H 1W7	742-9039	
VE3TLG	Ean	Robertson	20 Locust St.	Kitchener	N2H 1W7	742-9039	ve3tlg@kwarc.org
VA3HFO	Kurt	Robson	RR #3	Port Rowan	N0E 1M0	586-2280	
VA3CLS	Hammy	Ross	32 Providence Dr.	Cambridge	N3H 5P2	650-2452	
VE3RKS	Roger	Sanderson	651 Fern Road	Waterloo	N2V 1G4	885-2122	rsanders@ece.uwaterloo.ca
VE3ST	Ben	Sasiela	567 Mill Park Drive	Kitchener	N2P 1V4	748-0445	va3bny@rac.ca
VE3PQA	Harald	Schal	377 Hillside St.,	Waterloo	N2K 2P1	747-1128	di-wa@sympatico.ca
VA3SKN	Ken	Schatz	25 Bleams Rd. East	New Hamburg	N3A 1G6	662-1478	kschatz@kw.igs.net
VE3YAJ	Al	Schaus	164 Front	New Dundee	N0B 2E0	519 696-2995	schausa@sentex.net
VA3DAS	DAVID	SCHNEIDER	38 GLENDALE RD.	KITCHENER	N2H 2Z8	576-1292	va3das@kwarc.org
VE3DOS	John	Schreiter	7 Susan Cr.	Kitchener	N2A 4A8	748-4871	ve3dos@rac.ca
VE3GIO	Larry	Schroeder	147 Waterloo St.	Woodstock	N4S 2T3	539-8497	ve3gio@rac.ca
VA3DGS	Dave	Schwartz	215 Lincoln Rd.	Waterloo	N2J 2P2	884-3594	va3dgs@rac.ca
VE3THG	Mark	Schwindt	32 Sabrina Cr.	Kitchener	N2P 1Y6	748-2099	ve3thg@rac.ca
	Peter	Scully	65 Westwood Rd.	Guelph	N1H 7X7	837-5418	pscully@atconnex.net
VA3PNP	Peter	Sergas	237 Guelph St., Unit 1	Kitchener	N2H 5W9	519-742-9839	psergas@golden.net
	Dave	Sharma	15 Handorf Dr.	Cambridge	N3C 3Y2	654-9557	paramedic69ca@hotmail.com
VE3JXX	John	Sheeringa	6 Eagle Dr.	Elmira	N3B 3J1	669-8768	ve3jxx@kwarc.org

VE3ICD	DON	SINCLAIR	240 DAWSON ST	WATERLOO	N2L 1S5	884-7200	don@kw.igs.net
VE3HOO	Mac	SMITH	20 Fieldgate St Room 49	Kitchener	N2M 5K3	741-9559	macsmith@kw.igs.net
VA3JCS	John	Smith	163 Thaler Ave #403	Kitchener	N2A 1R4	894-4092	
VE3RAQ	Bill	Smith	64-30 Green Valley Dr.	Kitchener	N2P1G8	895-1308	ve3raq@sprint.ca
VE3AWN	Herman	Sovereign	R.R. #2	Drumbo	N0J 1G0		
VE3ASQ	Jonathan	Spike	239 Corrie Cr.	Waterloo	N2L 5W3		ve3asq@rac.ca
VE3TCK	Edward	Spike	239 Corrie Cr	Waterloo	N2L 5W3	884-2129	spike@uwaterloo.ca
VE3EVW	Rick	Spurgeon	555 Main St	Woodstock	N4S 1V3	539-4889	richardmspurgeon@yahoo.ca
VA3GGS	Glenn	Steinacker	15 Maple St. Box 284	Milverton	N0K1M0	(519)595-8086	gstainac@perth.net
VE3RVS	Vern	Stroud	111 Ruskview Rd	Kitchener	N2M 4S1	743-9342	
VA3BIQ	Hubert	Stumpf	277 Hazel St.	Waterloo	N2L 3P1	884-1581	
VE3RBA	David	Sullivan	235 Hoffman Street	Kitchener	N2M 3N5	743-7385	davisu@gto.net
VE3MGT	Jim	Sutherland	80 - 225 Benjamin Road	Waterloo	N2V 1Z3	885-0231	jim.sutherland@sympatico.ca
VE3FOT	Jim	Sweet	92 Hall St.	Ayr	N0B 1E0	632-7008	djsweet@golden.net
VA3DLT	Dennis	Tabbert	108 Oxford St. West, Box 31	Drumbo	N0J1G0	463-9641	va3dlt@rac.ca
VA3PT	Paul	Tait	55 Wayne Dr.	Kitchener	N2A 1M4	894-5019	va3pt@kwarc.org
VA3TNG	James	Tisdale	616 Glen Forrest Blvd.	Waterloo	N2L 4J8	519 885 1285	tizzy.tng@rogers.com
VA3ALT	Jeremy	Trafford	161 Caledonia St. Unit 2	Stratford	N5A 5W7		stabone@kw.igs.net
VE3NEF	Reginald	Tustain	100 Queen ST. N. APT 1508	Kitchener	N2H 2H6	576-5023	
VE3OAV	Robin	Varcoe	540 Vine Street	Cambridge	N3H 2Y8	650-0846	ve3oav@rac.ca
VE3CMV	FRED	VEENHOF	50 SHEPHARD PLACE	NEW HAMBURG	N0B 2G0	662-6021	
VE3BBB	Paul	Waechter	1631 Maryhill Road	Breslau	N0B 1M0	648-2431	ve3bbb@kwarc.org
VA3VCI	Paul	Walrath	191 Glengrove Place	Waterloo	N2L 4W1	884-6561	va3vci@kwarc.org
VE3UTO	Alan	Ward	76 Dudhope Ave.	Cambridge	N1R 4T7	621-5743	award@sentex.net
VE3SNJ	Stephen	Weber	336 Boxbury Dr.	Waterloo	N2K 1W2	886-0156	rev.weber@stjohnslutheran.on.ca
VA3JDW	John	Woods	7 Walker St.	Elmira	N3B 1Y1	669-3522	johnwoods@kw.igs.net

ARES Report

from Larry Gorman VE3LGN KWARC ARES Manager



Our Amateur Radio Emergency Services organization has been the subject of considerable attention at recent executive meetings, and in the process has undergone a streamlining which will make it more efficient. It is our hope that these changes will make ARES a more responsive agency. Sounds like a Government Cabinet shuffle!

A little over 2 years ago we established a pool of volunteers for our Emergency Services crew. Since then some members have moved on and others may have forgotten us. Its time once again to find out first hand what is involved, and where you might fit into this important and valuable public service This event will provide an opportunity to renew your commitment on my somewhat dated list.

Do you have a 2 meter radio? Have you been wondering about getting one with all the latest features. Here is an opportunity to use those terrific new handheld radios, and to participate in a very important public service.

Emergency Services is something to think about.

You might be interested to know that K-W Amateur Radio Club Emergency Services are written into the Region of Waterloo Emergency Services manual



in no less than four different places. The Region is counting on us!

Your signing on does not lock you into an inflexible commitment, so we sincerely hope that you will make it out to the February 3 meeting held at Wing 404 Monday evening 7:30 PM. to put your name on the new list.

Weather monitoring is an integral part of our ARES group. We assist the

Severe Weather desk of the Ministry of the Environment (MOE) Weather Services branch through CANWARN. This is an arrangement whereby Amateur Radio operators report incidents of severe weather. The Ministry has assigned 5 pagers with which the Ontario District Office can send us instant messages of pending severe weather. Thus we are able to set up local nets to pinpoint occurrences. While most active from May to September in our Region, CANWARN is equally active in winter in some of Ontario's more rural Counties. Next month I will be announcing the date for our CANWARN refresher, held annually at the University of Waterloo. The special speaker is always engaging and there is usually a free "perk" for those in attendance.

Hope to see you Monday evening. Even if you don't wish to sign up, it will still be an informative event.. Our social host does make good coffee! And there may be an ARES perk in it for you!

Larry VE3LGN

ARES manager.

Membership Form Please pass on to a non-member

One month prior to expiring the top line on your label will read "Expires soon mm/yy. Please renew" where mm/yy is the month/year of expiry. If you miss the first reminder the next months label will read. "Expired mm/yy. Last bulletin". Those members who receive their Kilowatter via the clubs Web site will receive and e-mail reminder when their membership gets close to expiring. Members who do not renew at the meeting in which their membership expires will receive a personal follow-up mailing reminding them of what they are missing.

This will be the first year of renewals on the new system so a few glitches may occur. Please notify your treasurer of any discrepancies that may occur.

Please cut out the following renewal form and enclose it with your payment as your renewal date comes due.

PLEASE MAIL TO: Kitchener-Waterloo Amateur Radio Club Box 34012 Highland Hills Postal Station; Kitchener, Ontario N2N 3G2	
First Name _____ Call: _____	Last Name: _____
Address1: _____	Address2: _____
City: _____ Postal Code: _____	Email Address: _____
Phone Number: (____) _____ - _____	Birthdate: ____ Month ____ Day ____
This is a [] RENEWAL or [] NEW APPLICATION	Kilowatter Preference [] MAIL [] From WEB
<input type="checkbox"/> Full Membership @ \$20.00 + \$5.00 mailed Newsletter <input type="checkbox"/> Family membership adder @ \$5.00 <input type="checkbox"/> Seniors Membership @ \$10.00 + mailed Newsletter <input type="checkbox"/> Student or Challenged @ \$10.00 + \$5.00 Newsletter	<input type="checkbox"/> Associate (non voting) @ \$10.00. I am a member of the _____ Club.
NOTE: Phone Patch, IRLP and URL Network access are included FREE with each class of membership	
Comments: _____ _____	
Total Amount Enclosed: \$ _____	Your Cheque Number : _____

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