

Kilowatter

The voice of the KW Amateur Radio Club

May 2009

Since 1922

Kitchener-Waterloo Amateur Radio Club

133 Weber St. N. Suite #3-138
Waterloo, Ontario
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MONDAY'S MEETING

Date: Monday May 4th, 2009
Time: 7:30pm
Place: RCAF Wing 404 Club. End of Dutton Dr. Waterloo. Off Weber St. N.
Topic: Ric Dörner – return visit to talk about computer security.

UPCOMING EVENTS

<p>Smiths Falls Flea Market, Celebrating 25 Years Rideau Lakes Amateur Radio Club inc. Saturday, May 9, 2009 Smiths Falls, Ontario</p>	<p>CNIB Hamfest 2009 CNIB Amateur Radio Program Saturday, May 23, 2009 Toronto, ON</p>
<p>Dayton Hamvention 2009 Dayton Amateur Radio Association May 15-17 2009 Dayton Ohio</p>	<p>Rochester Hamfest Rochester Amateur Radio Association Saturday May 30, 2009 New Location in Greece NY.</p>
<p>Central Ontario Hamfest & Fleamarket GARC & KWARC Saturday, June 6, 2009 Fergus, Ontario</p>	<p>Field Day KWARC June 27,28 2009 Breithaupt Park in Kitchener</p>
<p>ONTARIO HAMFEST 2009 Burlington Amateur Radio Club Saturday, July 11, 2009 Milton, Ontario</p>	<p>Hamfest 2009 Brantford Amateur Radio Club Saturday, August 15, 2009 Burford, Ontario</p>

KWARC Directors 2007-8

President	Dennis Tabbert	VA3DLT	
Vice President	Ben Sasiela	VE3ST	242-7436
Treasurer	Don Fisher	VE3ESE	578-7328
Secretary	Ken Willmott	VE3MIX	894-1737
Director	Tedd Doda	VE3TJD	513-0377
Director	Nick Waterman	VA3NNW	884-3760
Director	Gord Hayward	VE3EOS	744-7205

The Executive Committee Chairs

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Packet	Tedd Doda	VE3TJD	513-0377
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Edu. Co-Ord	Ron Gimbel	VE3DBD	584-2009
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Bereavement	Marg Cassel	VE3RE	
Flea Market	Dennis Tabbert	VA3DLT	
QCWA Rep	Harold Braun	VE3DWH	884-2388

KWARC Owned Repeaters/Nodes

Mode	Call	Freq.	PL	patch	Location
Voice	VE3KSR	146.970	131.8		Baden Hill
Voice	VE3RCK	146.865	131.8		Mannheim
Packet	VE3KSR-0	145.010			Baden Hill
Voice	VE3IXY	224.340	131.8		Mannheim
IRLP	VE3RBM	444.875	131.8		Mannheim
Echolink	VE3SED	53.370	131.8		Baden Hill
Voice	VE3SED	442.200	131.8		Baden Hill
Special Events		147.510			Kitchener

Other Area Repeaters/Nodes

Mode	Call	Freq.	PL	patch	Location
Voice	VE3ERC	444.700	N		Elmira
Voice	VE3RND	145.330	Y		Plattsville
Voice	VE3SWR	146.790	N		Cambridge
IRLP	VE3WFM	147.090	N		Waterloo
Voice	VE3RSS	147.030	N	members	Acton
ULR Link	VE3BHR	447.075	Y		Baden Hill
Voice	VE3ZMG	145.210	N		Guelph
Voice	VE3BAY	442.350	Y		Kitchener

The Pres Sez



Greetings all!

Well now that the weather is starting to get better & warmer, here's hoping that attendance at our next 2 meetings won't decline. We have some important items on our agenda for both meetings.

At this month's meeting, we will have a return-by-request speaker. Mr. Ric Dörner spoke last year and I found many of his suggestions very helpful. If you wish to have a look at some of his interesting topics, here's the link:

<http://deigratia.wordpress.com/2005/02/16/security-for-your-personal-computer/>

Don't forget the annual meeting will be held in the month of June. According to our by-laws, all executive board positions will be retired and a new board must be elected. These elections will be held during June's meeting. The only non-elected position is the current President, who becomes Past President by default. Maybe we can acquire some new blood to take the reins! Hi hi!!

We have acquired new locations for our Field Day & for our Annual HamFest & Flea Market. Details for both of these events will be announced at the meeting on Monday, May 4th.

That's it for now...see you at the meeting on Monday!

Dennis
VA3DLT

Kitchener Waterloo Amateur Radio Club

April 6, 2009 Meeting Emergency Training Exercise



Larry, giving the instructions

With Gord VE3EOS and Ben VE3ST serving as referees and Bonny VA3BLT and Linda VA3LWH handling Logging Operations at the Marshalling table the event came off quite smoothly and within the projected time. A surprise override message, c/w frequency shift was dropped into the routines part way through, to simulate the unexpected interruptions that might occur in a real emergency.

A miserable night weather wise, after the final winter blast of 2009. However 19 members and guests braved the bitter April weather conditions to participate in the annual club Simulate Emergency Training exercise. Four Tables were set up with Teams communicating messages coded with various degrees of urgency.



Lynda, Bonnie and Larry at the marshalling table



Nick, Jessica and Peter at one of the operating positions

Our special guest for the occasion was Jessica Brozic. As well as being an Amateur, VA3JES, Jes is the new coordinator for the local Red Cross Association.

Among the things learned, during the debriefing. It takes a while to establish a team communications routine. Verbal reporting requires very clear enunciation into the mic. Messages need to be printed as neatly as possible on the Radiogram.

At the conclusion all participants were issued a RAC Emergency Services ID card.

Larry VE3LGN
Emergency Services Coordinator

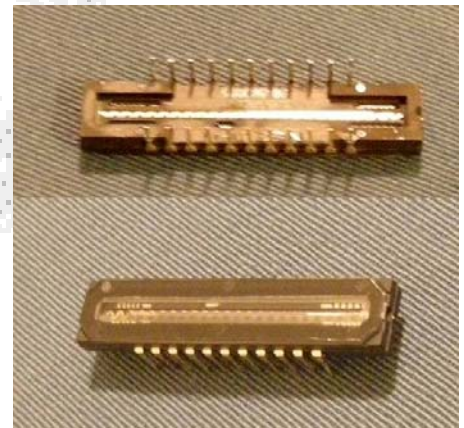
Photos by Ben, VE3ST

[What Is It?](#)



Last month, the 'what is it' (left) was a fuse that I found at last Saturday's flea market in Brampton. Neither the vendor nor I could identify it. I looked it up on the web under the manufacturer EFEN and found that they make fuses but this one wasn't listed. I did get two successful identifications, from Charles and from Paul, VE3SYJ.

This month, just to show I'm not always in the dark ages (actually in the glowing filament ages), the 'what is it' is an integrated circuit (right). I found it in a pile of junk at the University.



If you have an obscure part or assembly, send me a picture and I will use it – I'm sure some of you have neat things to stump the readers.

[Kitchener Waterloo Amateur Radio Club](#) [Executive Meeting Minutes, April 7, 2009](#)



Present:	Dennis VA3DLT	Ben VE3ST
	Don VE3ESE	Ken VE3MIX
	Tedd VE3TJD	Nick VA3NNW
	Gord VE3EOS	

> 1) CALL TO ORDER: 7:30PM Ratz Bechtel Funeral Home

> 2). Club Field Day Doon Heritage Village Update... June 27th - 28th

Ben stopped into Doon, who are building a new museum there. Can't accommodate us this year - entire location is a building site. Just about everything except the train gone. Needed to cancel weddings etc. Maybe after all over (next year) but sorry, can't come this year.

Ben has been scouting around Breithaupt center off Union & Margaret, not a bad park. "No overnight parking" sign may be a limit unless we can get consent to override. Just at the Union St. entrance, shelter area with 30-40 picnic tables, "long house". Secluded, away from homes, nice trees for dipoles, space for a tower, *IF* we can find how to drive in.

Roseville Rd (off 401) police association? Service members get the facilities for free / next to nothing. Suitable for VHF/UHF?

Choice 3: give it a rest for 1 year and try next year - membership would need to vote on this? Would be first field day in 35yrs club has not operated :-(

Don suggests Budd park, off Strasburg Rd & Homer Watson, back of the Bud plant. Space away from the baseball diamonds? City bylaws may not allow overnight activities, may need special permission. Approach City Rec - Cathy Bruder / Linda. They have washrooms too, but might need SHELTER.

Don will scout out Bud Park and Breithaupt. Ben will check out the police site. Gord will check Laurel. Between the 3 of them, they will choose somewhere and we WILL operate.

If all else fails, Gord will operate from the Laurel creek conservation area - has washrooms, costs money, just pay for a camp-site and operate?

> 3). Fergus Flea Market new site proposal for 2010.

Costs of Fergus too much, want another site "but they don't want to look for it". Woodstock, Conestoga college, Arena in Ayr (access from 401 is awkward, but probably not as bad as Fergus). Kinsman club near Preston park? Needs parking

Police place \$500, includes table setup and takedown! Indoor facilities not huge (half rink size?), half size of Fergus skating rink? LOADS of tailgating space though. Ask what insurance might be needed (and check what we get by being RAC-affiliated). Do they have long tables, or only the round banquet tables?

Arena rental \$859 last year. Tables + Chairs \$795.

RIM park and Moses Springer too expensive, Moses Springer not much tailgate space.

Ask Mike VE3OGE, as the site decision needs to be decided between the 2 clubs.

RAC AGM - probably too late to get a room, ignore.

> 4). Canwarn Training in Kitchener this spring

Mentioned at meeting yesterday. Scheduled: 16th Apr, CPH UoW.

> 5). Another agenda item

Could we confirm that KWARC has no objections to the re-registration of hamfest.qc.ca It's fine. Motion carried unanimously.

> 6). Repairs to the APRS station on Baden Hill

Broken Antenna, and wind indicator. Can we afford \$US 33.95 anemometer hub. Can we sort the rain gauge? Move weather station to Mannheim? Move to Tedd's place? Approval of funds to repair. otion carried unanimously.

> 7) IC say our APRS getting into Waterloo hydro and other transmitters.

Have to disable until we can find out what's wrong with it. Will be off-line until Tedd can get up Baden hill, change transmitter, put can back in-line, fit bandpass filter, possibly 2m tuner, etc. IC will run some tests when we've cleaned it up. Another antenna (150ft up)?

> AOB).

Ken ready to step down as club secretary at some convenient time - Elections are in June, won't be running again. Shift work has meant he can only make it about half the time.

Ken also considering concept of trying to get code endorsement and become an examiner! Receive part: push play on a tape recorder, compare writing to what was written. Sending test, can make the send at 5wpm, got to be able to read it and be reasonably sure they've not made mistakes. Must be able to receive 12wpm? "Advanced +5wpm, 10wpm, 12wpm", want bragging rights. DO YOU NEED CODE PASS TO OPERATE CW?!?

Vern doesn't want to be chief examiner any more, wants to finish up this year, but will stay on until we can get someone else. Bill wants to get out if it too. Roger wasn't accepted as he didn't know code. Ron Gimbel?

Local calendars to advertise the hamfest:

The Record

Rogers community cable calendar

105.3 KOOLFM.com

Waterloo region website calendar?

City of Waterloo?

City of Kitchener?

Trans provincial net

3755 ONTARS (swap shop?) 3730 group

RAC calendar already done

> Motion to adjourn to Timmy's - carried unanimously

[ARES IN ACTION](#)

[CANWARN REFRESHER 16/4/09](#)



Another new and interesting presentation by Scott Keddie and Severe Weather Meteorologist Robert Kuhn, to keep spotters up to date on current technology and the latest in severe weather observations. Of the approximately 25 in attendance 8 were new participants to the "eyes and ears" arm of Environment Canada.

While new tracking software, and computer modeling

programs have been developed, Scott stated that Spotters play a very important part as their on the ground observers. CANWARN, established in Ontario in 1987, has now spread all across Canada, and with Weather Watchers, an older organization, now boasts over 1800 observers across the country. With current liability concerns, we were reminded on several occasions that Environment Canada cannot condone chasing severe weather due to the potential dangers involved.



Robert Kuhn, Warren Kennedy and Scott Keddie

Ham reporting protocol was explained with Weather Watches or Condition Green, indicating a potential condition, usually with a 3-6 hour lead, vs. a Warning or Condition Yellow, indicating an imminent event that has been recognized and may be ½ to 1 ½ hour distant. Net check-ins are encouraged in a Condition Green, with reasonable Repeater use encouraged. In

a Yellow, and certainly a Red condition, the repeater needs to be left free for serious reporting. Chatters are encouraged to switch to another local repeater. Yellow alerts include Severe Weather Warnings and a Tornado Watch. Tornadoes give extremely short warning times.

Robert Kuhn then went on to illustrate and explain a variety of weather and cloud situations, and the destructive characteristics as defined by the Fujita wind damage scale.

<<http://www.mb.ec.gc.ca/air/summersevere/ae00s12.en.html>>, and <http://images.google.ca/images?hl=en&q=fujita+scale&um=1&ie=UTF-8&ei=wZTwSejVDIa0Nf6HtbEP&sa=X&oi=image_result_group&resnum=4&ct=title> are two excellent sources of info on Tornadoes. Towering Cumulonimbus clouds with thunderstorms and large hail frequently serve as the indicator of tornadoes, which as a rule trail along behind the storm. Between April and October Ontario can expect an average of 120 severe weather events, 70 with damaging winds, 20 with heavy rain and flooding, 20 with hail -- and 10 tornadoes.

There are many variations in the characteristics of thunderstorm cloud development but the most common in S. Ontario is the High Precipitation Supercell. They have the potential for heavy rains, hail, and tornadoes. Unfortunately they are difficult to diagnose as they arrive at very low level and obscure details.

Tornadoes which travel about 30 – 70 kph are measured in Canada using the Fujita (F) scale. The vast majority are F0 to F1. We can expect an F3 every 8 years (eg Violet Hill in 1996), F4 every 15 years (eg Barrie/Grand Valley). There have been no confirmed F5's in Ontario. But all are now overdue!

Lightning is considered to be our greatest summer hazard in Ontario. No watches or warnings are issued, as they are so unpredictable. There are an average of 10 fatalities each summer in Ontario. If you hear rumbles take cover, and stay under cover for at least ½ hour after the last blast. No shelter? Crouch low, holding your heels. Do not create a large target

Tornadoes - What to watch for; Rapidly rising massive white cumulous clouds, that appear to be "boiling", with overshooting tops, pushing up into the Stratosphere during hot hazy summer days, and Wall clouds (the lowering area) found at the back of the storm, exhibiting rotation.



Participants in the CANWARN refresher session

Before becoming alarmed, observe for a few minutes. If tornadic, the rotational pattern will be very obvious. A "false" funnel, or drop down cloud will have no rotation. Visibility is the

challenge in Ontario. Forested areas, hilly terrain, heavy obscuring clouds and hazy humid days make tornado spotting extremely difficult. But tornados are associated with a preceding thunderstorm, heavy greenish cloud cover and an unusual droning sound.

Radar imagery is useful to identify potential tornado weather but CANWARN Spotters on the ground report about 30% of all severe weather events each summer in Ontario.

This year all participants received a compact crank-up CANWARN flashlight as an advance thank you for serving as "the eyes and ears" of Environment Canada.

Thanks to Ed, VE3ETK for setting up the UoW venue, Dennis VA3DLT for the web site crawler notice and Ben, VE3ST for running the VE3KSR repeater Talk-In net.

Larry VE3LGN

K-WARC Emergency Services Coordinator

Photos by Larry, VE3LGN

[Short Items and Announcements](#)

The Fergus fleamarket is coming, June 6th in Fergus. Unlike Rochester and Field Day, its in the same place this year. We'll need volunteers for the various tasks needed to make the event a success, so please be willing.

Don't forget the breakfast gatherings: Saturday mornings at Angels in the plaza at Lawrence and Highland, Monday mornings at Benny's at Weber and Lodge in Waterloo and the Wednesday morning coffee gang at Luther Village. All start at about starting about 9 and last about an hour (or two). No agenda or formality, just good food and conversation.

Please keep saving Zehr's tapes and bring them in to the meetings. Zehr's donates a portion of the amount to the Club for the purchase of equipment and community activities. We are grateful to Zehr's for this community service. Marg, VE3RE, is the volunteer who amasses, counts and submits these tapes.

Just a quick note that the APRS transmitter is back on line! The Phoenix radio had a broken collector on the final RF PA which was arching, and therefore I believe, causing the spurs running up and down the band. The deviation control also went intermittent which would cause the deviation to jump to 15+ KHz deviation, which could have also caused the spurs. Both were repaired and a PASS can set to 144.390 was installed to help alleviate any future problems. It was reinstalled about 1:40PM on Saturday, April 11, 2009. It also looks like the APRS weather monitor is back as well, so you may want to remove the note on the website Dave (DGS). Thanks for your prompt service Dave!
Tedd, VE3TJD



Fred, VE3IH sent me this picture of an old 5 pin base tube. From the base and the element supports visible at the top, it's a triode. The interesting part is the Raytheon label stamped right into the plate – inside the tube.



David Johnson (VA3MRJ)

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KWARC Membership Renewal

Please cut out the following renewal form and enclose it with your payment as your renewal date comes due. When you enter the birthday information; just your month and day are needed.

PLEASE MAIL TO: Kitchener-Waterloo Amateur Radio Club 133 Weber Street North, Suite #3-138 Waterloo Ontario N2J 3G9		
First Name	Call:	Last Name:
Address1:		Address2:
City:	Postal Code:	Email Address:
Phone Number: () -		Birthday: Month Day
This is a [] RENEWAL or [] NEW APPLICATION		Kilowatter Preference [] MAIL [] From WEB
<input type="checkbox"/> Full Membership @ \$20.00 <input type="checkbox"/> Family membership adder @ \$5.00 each <input type="checkbox"/> Seniors Membership @ \$10.00 <input type="checkbox"/> Student or Challenged individuals @ \$10.00		<input type="checkbox"/> Associate (non voting) @ \$10.00. I am a member of the _____ Club. <input type="checkbox"/> Printed Kilowatter Newsletter "Mailed" @ \$10.00
Comments:		
Total Amount Enclosed: \$		Your Cheque Number :



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Information Gateway Services (IGS) provides a complete range of Internet services ranging from entry level personal accounts for beginners, right up to the requirements of large commercial organizations.

SPECIAL OFFER TO KWARC MEMBERS

1. No activation fee on standard personal accounts for KWARC members. A \$25.00 saving
2. \$50 per six months or \$75 per year paid in advance for 5 hours/month --- (extra hours at \$2.00 per hour).
OR \$15month \$150 year for 30 hours/month (this popular package has just been increased from 20 hrs)
3. N E W Now get **UNLIMITED FREE** time from midnight until 7am
4. One free KWARC e-mail address *urcall@kwarc.org* for KWARC members
No coupons or other discounts can be used in conjunction with these special offers to KWARC members ONLY.

For complete details, call Don Sinclair VE3ICD at 884-7200