

Rochester DX Association, Inc Newsletter

1947-2007 • 60 Years of DX in WNY

November 2009

# RDXA General Membership Meeting This month's program:

Legends 102.7FM and WDCX-AM Radio Station Tour

Paul Kolacki K2FX- Tour Guide

Directions to the studio can be found inside the newsletter.

# November 17<sup>th</sup> 3<sup>rd</sup> Tuesday of the month

Note we will be back at the EOC in January.

### 2008 ARRL 10 Meter contest results

**AF2K** wins for the Single Operator, Phone only, High Power category - Western New York section with 196 Q's, 45 multipliers, and a total score of 17640. Who says 10 meters is dead. Way to go Irv!



The Podium Paul Mackanos Well, another year of CW Sweepstakes is in the books, and it sure looks like a few of us RDXA'ers hit the airwaves for the BEST CW contest in the world. (At least the contest with the longest exchange :-) :-) ). Several of us K2DB, K2CS, W2LB, N2ZN, K2ZS and RTTY Rick went along

for the ride and supplied us with some much needed equipment and activated K2NNY. We scored our best ever from

K2NNY:

K2NNY 1310 80 24 209,600 points

W2FU activated his superstation with Andy K2TJ & Andy K0SM and apparently broke the Atlantic Division Record with their great score.

W2FU 1389 80 24 222,240 points

Congrats on the great score from WNY ! (And yes you were really loud in NNY)

So, as you can see our club RDXA with its great membership has some really talented and fine operators. With just these two scores, we are almost a half a million points for the Club. If you worked SS (or any other contest) be sure to SEND IN THE LOG to the contest sponsor and keep our club in the active status.

The NYQP is now in the books, and at last report, we have received over 200 log entries, which I would say is quite a success for the 1st year back for NYQP.The software team will be running the logs and determining the awards winners in the next week or so, so stay tuned, we will announce when all is checked, crosschecked and checked again.

Remember, if you ran CW SS or are going to run SSB SS, they have shortened the log submission date to 14 days after the contest, so don't wait to send in that log.

For now, lots of activity, contests, etc. Get on, make some noise and submit that score for the RDXA, but most of all - HAVE FUN DOING IT - IT IS JUST A HOBBY !

73 de Paul K2DB

#### Official Field Day results

#### N2RD

Field day results have just been posted on the ARRL website.

W2RDX #5 across all categories! We made the top ten!!!!! #2 in 3A category (just 300 points behind W9CA).

Read the article here:

http://www.arrl.org/membersonly/contests/scores.html?con\_id=176&ofst=0

Editorial note – there were 338 entrants in the 3A class with the 3<sup>rd</sup> place finisher 6650 points behind us. Wow! Even more amazing is that we were a mere 690 points **behind** a 9A operation. Pretty amazing statistics and nothing to be ashamed about coming in second with scores like this and from an east coast effort to boot.

#### **Upcoming DX Operations:**

Nov 1-20, 2009: Tanzania: 5H1HS Nov 1-Dec 14, 2009: Liberia: EL8RI Nov 2-23, 2009: Mali: TZ6JA Nov 2-27, 2009: Chesterfield Is: TX3A Nov 3-15, 2009: Montserrat: VP2M Nov 3-29, 2009: Angola: D2CQ Nov 3-30, 2009: South Cook Is: E51TLA Nov 4-17, 2009: Vietnam: XV4D Nov 4-18, 2009: Bermuda: VP9KF Nov 7-15, 2009: St Pierre & Miguelon: FP Nov 7-16, 2009: Senegal: 6V7S Nov 9-22, 2009: Palau: T88AA Nov 9-25, 2009: Oman: A43ND Nov 10-16, 2009: West Kiribati: T30 Nov 11-18, 2009: Samoa: 5W0MR Nov 11-Dec 7, 2009: Vietnam: XV2 Nov 12-19, 2009: Greenland: OX Nov 12-Dec 10, 2009: Chad: TT8JT Nov 13-16 2009: Papua New Guinea: P29VCX Nov 13-16, 2009: Cambodia: XU7KOH Nov 13-23, 2009: Comoros: D68F Nov 13-27, 2009: Ghana: 9G5TT Nov 13-Dec 3, 2009: Mozambigue: C91LW Nov 13, 2009-Mar 1, 2010: Pitcairn I: VP6AL Nov 14-21, 2009: Falkland Is: VP8BUH Nov 15-19, 2009: Brunei: V88 Nov 15-23, 2009: Crozet Is: FT5WO Nov 15-Dec 2, 2009: Br Virgin Is: VP2V Nov 17-Dec 15, 2009: Madagascar: 5R8IC Nov 18-22, 2009: Western Samoa: 5W2IQU Nov 18-30, 2009: Western Samoa: 5W0KH Nov 19-23, 2009: New Caledonia: FK Nov 19-Dec 1, 2009: Tonga: A31A Nov 20-26, 2009: Canada: VY1RST Nov 21-22, 2009: Mongolia: JT1T Nov 21-Dec 5, 2009: Christmas I: VK9XX Nov 23-Dec 1, 2009: Botswana A25NW Nov 24-Dec 6, 2009: Belize: V31PT Nov 25-30, 2009: Zambia: 9J3A Nov 25-Dec 10, 2009: Palau: T88CI Nov 26-Dec 1, 2009: Antigua: V26K Information courtesy of: http://www.ng3k.com/Misc/adxo.html

#### End of an era - Ed Gable, K2MP

#### Sub-titled "What took you so Long"

It was a cool evening, one of those that remind you Fall is really on it's way. The clocks have all been set back and Ed Gable, with trustee coffee cup in hand, sits down in his comfortable high back office chair that is studio A at K2MP. He pokes a few buttons on the newest item in the shack. Funny, it has no knobs and no familiar name like ICOM, Kenwood or Yaesu. Instead it's blue and is emblazoned with the word DELL and little stickers with phrases like gigabyte and dual core and HD ready. In no time the screens jump to life and there is his new logging program displayed along with the DXSCAPE DX cluster running in the bottom corner. Ed sits deeper into his chair, looks at the flat screen monitor, wider than it is tall, sitting above the station radios, tilted down and offering enough information to fill a filing cabinet each hour.

He is satisfied, a nice days work at setting up programs and a 5 GHz wireless set up at Lighthouse Road. Ed turns slightly to the right in his operating chair and now faces the oldest equipment in Studio A. "I guess it's time," Ed muses. He reaches for the keyboard, not the wireless job, but the one connected with a one inch rotary connector to a 286 machine running DOS. The old reliable WJ2O logging program, with 15,106 non-contest, QSO only, contacts are stored away. Better back up those last few QSO's. Let's see, ESC <enter> cd C: <enter> OK there's the list of programs, cd WJ2O <enter>, put a 3.5 inch floppy in the drive, "copy \*.\*.log a: <enter>" and the comforting green LED on the floppy lights up and the data is saved. "Shift/Tab" and away goes WJ2O and up comes the faithful NG2P Packet cluster. Ding, ding, ding come the new spots as the TNC sends data to the PACKET program for display on the some what dimming CRT.

"How should I end this era, Ed reflects." He types "announce" and then "NG2P de K2MP-1 now QRT. Thanks for all." <enter> The red SEND LED on the PK232MBX lights up followed by the TX LED on the Radio Shack HTX-202 FM radio permanently glued to 144.91 MHz.

In no time the order is reversed as the TNC RECEIVE lamp lights and the QRT message is sent out over the ether for all to see. I doubt if anyone saw it other than possibly K2CS, W2LU or N2BEG as the remaining regulars. I turned OFF the computer by pressing START. Way to go Bill Gates ! Followed by the OFF buttons on the TNC and the HTX-202. The next few moments were spent quietly by removing all of the interconnecting cables and the hardware. Sure was a lot of dust under the PC. And well there should be as the MITAC 286 was set in place in 1994 and never moved 'til this week. I went through three TNC's, three FM radios (one melted by direct lightning hit) but only one computer and one software program.

Early packet cluster operation was far different than today's plethora of web-based DX spotting networks. Many of you remember the pre-internet days when radio based 2 meter packet stations were the only source of live DX spotting. (OK, two of you might remember FM DX nets and real green key RTTY net works). The NG2P Cluster was a regular meeting place and a venue to share messages and to grab ARRL bulletins, etc. Each night one would sign in to NG2P and you would immediately be notified of any traffic held for your station. If not, send DIR10 <enter> and get a list of the last ten stored bulletins ready for your enjoyment. It was a place of camaraderie where most all local DX'ers hung out. I remember well one of the first mega-Dxpeditions, Heard Island, 3Y0PI, that was needed by everyone.

The local cluster would be filled with "announce" messages sending today's equivalent of high fives every time a RDXA'er got logged. It was nice. Then, too, packet was a good method for traffic handling with well managed networks crossing the state and beyond. I'll never forget being associated with ARMY MARS (AAR2FH) when, during the Christmas season of Operation Iraqi Freedom, I delivered many pieces of local holiday traffic from GI's overseas pulled off the MARS VHF packet cluster run by Bob Nezelek, W2CNS. Then there was the HF gateway packet at Harris/RF where 16,261 pieces of formal traffic were received here in Rochester for distribution countrywide.

Packet is not dead and is finding broader and innovative use in the emerging emergency traffic-handling arena, with Home Land Security taking an interesting look.

My old packet stuff is far from going to a landfill. It survived long enough to be part of the new Ham Radio exhibits planned for the new AWA Museum.

Thanks, Bob, for all of the great years of service from NG2P. I'll buy ya dinner at the next RDXA pre-meeting gathering. 73.



#### This month's bio is from Paul Kolacki – K2FX

K2FX was first licensed in 1973 as a Novice (WN2SNU). He later became WA2SNU, a call which was used until November of 1996 when it was changed to K2FX. Paul is an avid CW operator, a member of the Rochester Amateur Radio Association (RARA), and Vice-President of the Rochester DX Association (RDXA) He works professionally in the Radio/Television Broadcast industry. His interest in Amateur Radio still remains strong after spending 36 years in the hobby. K2FX is an ARRL Official Observer Station, and an Extra Class Volunteer Examiner for the ARRL and W5YI Groups.

Paul is a United States Air Force Veteran, having flown over 5,000 hours onboard the AWACS E-3A Sentry, stationed for the most part at Tinker AFB in Oklahoma City between 1981-1985, and is currently an Officer in the United States Air Force Auxiliary. His duties include volunteering as a Pilot, Communications and Public Affairs Officer. One of the main functions of the Civil Air Patrol is to perform Search and Rescue for the Air Force, but also maintains an extensive Communications network. K2FX is also a member of the Navy-Marine Corps MARS Program.

Paul earned a B.S Degree in

Communications/Broadcasting from the State University of New York College at Brockport. He works Full-Time as a Television Station Manager, and is also the owner of Laser Sound, one of Western New York's largest Professional DJ Services. In addition, Paul has worked as an On-Air Radio Personality since 1975 at a variety of stations around the country, including at one time hosting a show heard on over 40 affiliate stations around the Northeastern U.S. He can currently be heard on Rochester Radio Station <u>"Legends 102.7FM, WLGZ"</u>, which plays oldies from the 1950's to the 1980's. Paul is a member of the Society of Broadcast Engineers. K2FX can also be heard around the country and the world via Repeater, Satellite, and Shortwave broadcasts as a News Anchor for

"<u>This Week In Amateur Radio</u>", a weekly news magazine bringing its listeners

the latest in Ham Radio information. K2FX is also the NCS for "The Newbie Net" which originates in Rochester, but is heard across the USA live on Sunday evenings, and is available for download from ITunes.

The Callsign K2FX was previously issued to Durwood "Dee" Finch who was also an On-Air Radio Broadcaster!! One of the team of "Klavan and Finch", radio personalities on NYC station WNEW. Dee is credited with doing the first true Radio Morning Show, and was originally paired with TV Game Show Host Gene Rayburn! \*\*See the Original Famous Ham Page and check out K2FX at: <u>http://users.tellurian.com/gjurrens/famous\_hams.html</u> (Like me, Dee also LOVED CW!)

Since 2006, Paul has been active in the Masonic Organization, and is a member of the Damascus Shrine in Rochester, NY. He and his wife Cynthia are both Volunteer Firemen with the Pultneyville, New York Fire Company.

K2FX is a multiple handgun owner, and holds a New York State as well as Pennsylvania Concealed Carry Permit. He is also licensed as a New York State Armed Guard.

Finally, Paul is a Motorcycle enthusiast who loves to ride

his 2008 Yamaha V-Star 1100 Classic .Paul is married to Cynthia (K2SKY), and they reside in Ontario, New York, a suburb of Rochester. They have a daughter who attends college.



#### Who will be next month's bio ?????

Let's line up Bio's for the rest of the year. I would love to hear how you got started in the hobby and what else do you do in your life (if there is anything besides amateur radio). Send your bio to Dave **N2CK**, the newsletter publisher and see it in print in upcoming months.

#### **Contest Calendar**

Mark these dates on your calendar:

November 21-22 - ARRL SS Phone November 28-29 - CQWW CW December 5-6 - ARRL 160 CW December 12-13 - ARRL 10M

Remember to put your scores on the RDXA grid and good luck to all.

#### Propagation 11 years ago

# AD5Q's notes from Cycle 22

#### October 1998 Forecast -- Flux Range 115 – 168

November is a great month for 10 Meter propagation over northern latitude day paths. Much of the Arctic is in darkness now, so polar propagation is more difficult than it was around the equinox. Over the past month, solar conditions have not always been favorable. The flux remained below 120 for the last two weeks of October. This is not high enough to really open up the band. Conditions were marginal to Europe in the CQWW SSB contest for most of the US, though stations to the east and south had good paths.

As I write this, the flux is back up to around 150. There were several days of excellent propagation on all bands - and then came the flares. At this early stage of the sunspot cycle 10 Meters is sensitive to the monthly swings in solar flux. A year from now, the monthly dips in flux levels should be higher than the current peaks. Conditions will be awesome, though the bands will always be sensitive to flares.

Our current moderate solar numbers are sufficient to provide reliable communication on 15. This is where most of the daytime activity was in the CQWW, as conditions to Europe were excellent. We have come to expect good 15 Meter openings almost every day. In the fall (in contrast with the late spring season), 15 is a daypath band. Some signals are currently making it over the pole, but this path will be increasingly difficult as winter nears. For now, 15 is loaded with activity that will move to 10 when flux levels improve.

20 now closes in the evening, and is no longer a night path band across the northern hemisphere. 15 is more optimum for day path work, but 20 still has its place. Conditions are ideal across paths were the sun is low in the sky, or has recently set. In addition, night paths are wide open in the southern hemisphere. The wise DXer knows to check the morning long path several times per week for unusual countries many would consider rare. He beams about 200 degrees south after sunrise for the first signals around the south pole from southern Asia. From Texas, this is the daily opening to India and Sri Lanka. These drop out early, but the opening broadens to include the Middle East, Russia and then the rest of Europe with east Africa. From other parts of the US this opening peaks to different areas. Since these DX windows are narrow, there is little pileup competition from stations to your east or west (they have their own band peaks). It is also good to be south of your competition.

For northern latitude night path work, the band to use is 40. Fluxes are high enough to keep the European path open through the evening for us, though activity is light where most are in bed. It is best to work into areas where the sun has risen. In the evening the signals from Russia are excellent, and then the opening sweeps across Europe. The best path to Asia follows our own sunrise. As you may have noticed, big antennas rule 40.

http://www.qth.com/ad5q/

### **Escapades at K2NNY**

#### K2DB

As is sit here having breakfast and getting ready to go over to Six Pockets Bar & Grill to watch my Steelers play the Bengals (blacked out in Rochester).

I figured I would let you guys & gals know of some of the **Murphy's Law** things that always happen at any station, yes I said any station before and during a contest.

Those of you that think everything always goes along smoothly, just read what

We had this year at K2NNY.

(1)The week before the contest, I am at K2NNY and the rotor is acting funny, it won't stop where it is supposed to, it just cruises by and stops 20 to 30 degrees off. I play with it, trying to do one of two things, free up whatever is causing the problem or break it. One of those two things has to happen, as CW SS is next week-end. Well give me credit, **I BROKE IT!** Now it is stuck at 30 degrees, and will not move. I gave a call to the antenna rotor guru W2FU and explained what happened. Jeff giggled and said "you broke the ring gear inside the rotor".

OK, here I am alone and I have to change out the rotor, there are two problems here, one – I am alone, 1 mile from civilization, two – the spare rotor is mounted on another tower with my TV and 2 meter beam on it. What do I do?

(2)If you know me well, SAFETY is always my 1<sup>st</sup> priority, so NO TOWER CLIMBING will be done this week-end, just prep work for next week-end. 1st thing to do,check out the rotor on the TV/2 Meter Beam to make sure it works with the Automated RS-232 Interfaced Rotor Controller. It is perfect, all OK.

(3)Go up to top of hill, and lower the crank-up tower so we can change out the rotor next week before the contest. (Remember SAFETY FIRST!) I went over to my neighbors cottage, they just happened to be there and asked them to come over and watch me lower my tower. I explained to them the possible dangers lowering a crank-up tower,(like the possibility of a cable breaking and the tower coming straight down really FAST), and they came and stood by with a cell phone ready to call 911 J. The tower lowered fine, and a safety inspection of all cables, pulleys, etc revealed that all was fine. Now I wedge in a few pipes between the sections so that they will not move when I climb it next week.(Yes I wore a hard hat)

(4)That's it for this week-end, clean up, make a list of materials for next week-end's fix it up, and go home.

Friday before SS:

(1)With the help of Larry W2LB and Rick W1TY, we got up early and up the tower I go, clamp the mast to the tower, take out the rotor and lower it. Larry rewires the rotor with QUICK DISCONNECT PLUGS.

(2)Up the hill, climb the crank-up, cut the rotor wire, remove the rotor and lower it.

(3)Re-Install the good rotor, rewire the rotor cable with quick disconnect plugs.

(4)Perform maintenance on all of the antennas, pulleys, ropes, cables, etc on the tower. (Why wait till next year)

(5)Crank up the tower – all done (it was already getting dark at this time, this took all day!)

Friday Night: I am beat, my legs are aching and Tylenol was in order, but the rotor was fixed and working. Now to make a list of what to do tomorrow (Saturday) before The contest starts at 4 PM. N2ZN shows up and a little later, K2ZS comes in. The typical bantering of friends begins.

What we need to do on Saturday!

(1)Lower the 80 meter dipole, add the jumper to make it resonant in the CW band and put it back up.

(2)We had quite a discussion on what antenna to use for the mult station, and decided that the off center fed 80 meter (all band?) windom that we had been using was not a good performer. We decided that we would make a multi band dipole, 80, 40, and 20 and feed it with one coax and a balun.

(3)Set up the mult station equipment.

Watch TV, eat, sleep, etc, wait for Saturday.

Saturday Morning & Afternoon:

(1)Lower 80 dipole -here we go, the support ropes broke, now we have to re-shoot all of the support ropes (more time lost) but we get it done, and wow, it is even higher than it was before – GREAT!

(2)Re-shoot the line for the 160 dipole, (it fell down too). Done

(3)Make up the multi-band dipole and get it installed.

All is ready, time to check things out and get ready for the contest.

We check things out, and as usual, we have some problems getting things to work right,more of operator error than equipment problems, but we finally get all running.

Here is the station line-up:

Run station:

Icom 746Pro Kenwood TL-922 Amp (800 Watts Out) Pro67-B Antenna at 65 feet (2 elements on 40, 3 elements on 20-10) 80 Dipole 51 feet at center >70 feet at ends. Computer with N1MM networked to multi-station

Mult-Station:

Icom 765 Yaseu Amp (500 watts out) 80, 40, 20 dipole - 1 coax feed line Laptop with N1MM networked to Run station.

All checked out, and other than not knowing who's on first, etc (you know what I mean), away we go.

4 o'clock and the pile-ups begin, I am running on 40 at a great rate, and I notice the band is really favoring the south, but I am beaming west, so I turn the beam and all at once the SWR goes ballistic, I am getting as much reflected power as forward power, something is wrong. Ken is running the mult station, I yell at him to come to my freq on 40 and keep running while Larry and I change the feeds on the run station and fix this problem. We spend the next ½ hour or so changing feed lines, coax's, etc, and nothing changes, we are screwed. Murphy has hit and 40 meter beam is fried.

Check out 80 meters on the run station, and the band is open. Tell Ken to so back to search & pounce mode on 40 or 20 and we will run on 80. That is what we did.

WOW, 80 was great, we were there way to early, but it was open up and down the easy coast, so we did not

seem to suffer in qso rates by being on 80 instead of 40. We ran on 80 all night until almost 9 in the morning before the rates dropped. By this time it was light outside, and I asked Larry if he would do me a favor, just for grins, take a look at the tower and see if anything is interfering with the beam, or a loose wire, anything.

Larry checks it out and discovers this:

The feed point of the 80 dipole is at 51 feet, below the 40 meter beam, but the ends of the 80 meter dipole are HIGHER than the beam, so when the beam was turned toward the southwest, the drooping 40 meter elements made contact with the 80 meter dipole.

DUH ! Larry lowers the 80 meter dipole out of the way and we can go use 40 as normal.

Does anyone see a lesson learned here? J J

OK, time to go, Steelers game in an hour.

Paul K2DB

## Forecast of Solar and Geomagnetic Activity

Highlights of Solar and Geomagnetic Activity 02 - 08 November 2009

Solar activity was very low. Region 1030 (N25, L=046, class/area Cro/050 on 05 November) emerged on the disk on 05 November. Region 1030 gradually decayed to spotless plage late on 07 November.

No proton events were observed at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit was at normal levels during the period.

The geomagnetic field was at quiet levels through most of the period. On 08 November, a weak recurrent coronal hole high-speed stream (CH-HSS) was observed from the ACE spacecraft. Quiet to isolated unsettled levels were observed between 08/0900-2100 UTC, with isolated active levels at high latitudes between 08/1200-1800 UTC. Velocities increased from 247 km/s at 07/1331 UTC to a high of 461 km/s at 08/2145 UTC. Interplanetary magnetic field activity associated with the weak CH HSS included an increase in Bt (maximum of 11 nT at 08/0957 UTC) and southward Bz (minimum of -9 nT at 08/1821Z).

Forecast of Solar and Geomagnetic Activity 11 November - 07 December 2009

Solar activity is expected to be very low to low. There may be a small increase in background levels from 15-27 November due to the return of Region 1029.

No proton events are expected at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit is expected to be at normal levels through the period.

The geomagnetic field is expected to be at quiet levels during 11-17 November. Quiet to unsettled periods, with isolated active levels, are expected on 18-20 November, due to possible effects from a recurrent CH-HSS. Activity is expected to decrease to quiet levels on 21 November for the remainder of the period.

More at: http://www.sec.noaa.gov/radio/

### **RDXA Apparel Update**

K1PY

Ran across the RDXA apparel box, and thought I'd update the membership of the few items still available.

Green golf shirt, RDXA patch, with pocket, XL \$17

Green baseball caps (2), RDXA patch \$13.50 each

RDXA Yellow FD National Champion T-shirt, L \$12

Reserve one for yourself as a Holiday gift!

Will have in my car at meetings, etc. Checks payable to RDXA acceptable.

## Directions to Legends 102.7 WLGZ K2FX:

Legends 102.7 WLGZ is at 2494 Browncroft Blvd., which is located at the Northwest corner of the intersection of Browncroft Blvd. and Blossom Road in Penfield, NY.

#### **Driving Directions:**

<u>From Route 590 North</u>, turn Right onto Browncroft Blvd. and travel approximately 2 miles to the East. Our office will be on your left just as you approach the intersection of Browncroft Blvd. and Creek Street.

<u>From 590 South</u>, turn Left onto Browncroft Blvd. and travel approximately 2 miles to the East. Our office will be on your left just as you approach the intersection of Browncroft Blvd. and Creek Street.



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# **Rochester DX Association**

#### W2RDX

#### rdxa.com

This Bulletin is the official organ of the Rochester DX Association and is published monthly, September through June. Email your articles, tidbits, ham ads, etc. to Dave, N2CK at the addresses below by the second Tuesday of the month for inclusion in that month's issue.

Al those with an interest in amateur radio and DXing and contesting are cordially invited to any meeting and to join RDXA. Meetings are held at 19:30 local time on the 3<sup>rd</sup> Tuesday of each month, September through June.

PresidentPaul N	lacanos – K2DB/k2db@k2db.org
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#### **Appointed Positions**

DX Chairman Chris Shalvoy, K2CS
Packet Cluster Sys Op Bob Hunter, NG2P
Webmaster Scott Hoag, K2ZS
Contest Chairman Ken Boasi , N2ZN
Membership ChairmanCarey Magee, K2RNY
Newsletter Editor Dave Wright, N2CK/N2CK@arrl.net
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Membership Dues can be sent to: Regular membership - \$20.00 Family Membership - \$5.00 Full Time Student - \$10.00

Carey Magee 69 Fairview Crescent Rochester, NY 14617 Any other correspondence to:

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# Professional Home Inspection



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