

THE BLACK HOLE



Celebrating 21 Years of Contesting from the Midwest

Official Journal of The Society of Midwest Contesters

Volume XIV Issue II

May/June 2006

Reorganization of SMC Leadership

By Pat Barkey, N9RV

SMC is a very large and very proud club. We've got some of the best operators, the best stations, and the most talented, successful and dedicated people in the world in our membership. Contesters everywhere know what we have accomplished. And many of them wish that they could somehow be part of something as exciting as what we have today, and what we sometimes take for granted.

It takes a lot of energy to run this club. Many people, like K9NW, WE9V, and K9PG can attest to that. Paul, K9PG, has done an incredible job in expanding the club, and turning it into an SS powerhouse that other clubs fear and respect. But we can't forever expect that one person can simply do it all at the helm of our club.

Paul has asked to be relieved of his responsibilities as SMC President, after a long and unbelievably successful reign. Please thank him - in person, at Dayton, on the air, or on the reflector for a first class job of representing and motivating the club.

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SMC Takes ARRL 160 Unlimited Title

By Brian Maves, K9QQ

SMC took the Unlimited Category title again this year, outdistancing the PVRC by 1.2M points. Superb efforts by perennial performers set the standard. John, K9DX, turned in another top ten score, finishing fourth in the SOHP category. The K9CS gang (Howard AK9F, Carl K9CS, Jerry WB9Z, Don K9NR, and Will K9FO) operating again at Jerry's station, placed 5th in the multi-op category. Other Central Division stations highlighted by the ARRL writeup included KK9K, who set a new Wisconsin record, WB9CIF who had the Central division Low Power top score, plus W9SZ and WX9U. Everyone deserves congratulations for being active and turning in a huge score.

NCCC Mini Sprint

By Mike Wetzel, W9RE

Again this week (and every week for 12 weeks) (this is the 3rd week) the NCCC is holding a mini sprint contest on Thursday night local time (Friday UTC) from 0230z to 0300z. The operation is almost exactly the same as a normal sprint except you can work the same station (dupe) with only one intervening Q. This makes the contest interesting because you never run out of stations to work. It is very good practice for the regular sprint contest and a nice short activity. Yes, the speeds are fast because it is a sprint and a contest but if you QRS the stations will QRS for you (especially if you are a new multiplier).

The scoring is a little different in that multipliers count per band unlike the normal sprint contest. The bands used are 160, 80, 40 and 20.

Frequencies are 1812, 3540, 7040, and 14040 (nearby).

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The Black Hole



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Membership in **The Society of Midwest Contesters** is open to all persons with a bona-fied interest in amateur radio contesting. The club doesn't collect annual dues, but instead funds everything through member donations. For more information contact one of the following officers:

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SMC Needs Your Financial Support

As one of the top contest clubs in the nation, we continue to sponsor plaques for a number of major contests including Sweepstakes, ARRL DX, CQWW, and CQWPX, as well as make monetary donations in the interest of promoting radio sporting.

A few years ago, we decided to eliminate formal dues of \$10 per year, and instead, maintain funds through member donations. We encourage all members to consider making an annual donation to the club. Your generous donations allow us to continue to expand our support of radio sporting.

You can make your donation two ways:

1. Send a check, money order, or cash to:
JON OGDEN, NA9D
905 SURREY LN
ALGONQUIN IL 60102-2058
2. Use Paypal and email your donation to dues@w9smc.com.

W9SMC

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of
The Society of Midwest Contesters

SMC Web Page: www.w9smc.com

SMC Stuff

To get your SMC stuff, see the last page of the newsletter or visit the SMC website, <http://www.w9smc.com/merchandise.htm>



Badges

Order Today!



Shirts

The 2005 N9JF/P ILQP

By ARRL, Bill Sexton, N1IN

Six months ago, my plan was to again be a mobile in southern IL for the event. However, I speak twice a month at two small local churches. When the schedule was originally constructed, I asked for the 16th “off”; but the message got entangled with some other issues, and I found myself committed for two services on Sunday, at 9 and 10:15 a.m. As the second church is in northern Adams County, there was no way Darren (N9MTX) and I could get to southern IL by starting time. This was even before the start time change to 1700Z! Darren and his YL have moved back to the area; and I’ve been wanting to operate with him in a contest, so it seemed natural at this point to look for a corner and be a portable entry. There are four 3-county corners within an hour’s drive of the church: HANC/SCHY/MCDN (occupied by KN0E), ADAM/BROW/PIKE (occupied by N9DT and WB9EWM), ADAM/BROW/SCHY, and ADAM/HANC/SCHY. I had tried to reach ADAM/BROW/SCHY a few weeks earlier and determined it would be difficult, if not impossible, to get there and set up a station. The nearest road is a mile away, the site is in heavy woods, and even field roads might not get very close. That left ADAM/HANC/SCHY, which is about a fifteen-minute drive from the church.

After calling the landowner, I drove to the corner on Saturday and tossed lines into a convenient tree and erected two dipoles, one open-wire and one for 40 meters. The open-wire was parallel to a set of electrical lines across the road and broadside east-west but fortunately did not seem to pick up appreciable noise. The 40 meter dipole was actually an inverted V with the ends north-south. Neither was more than 25’ high at any point. Oh well, straight up is good in a QSO party.... In addition, the mobile antennas on the car would be used, mostly for SSB.

On Sunday, Darren and I changed clothes at the church and zipped to “our corner”. Fortunately, the dipoles were still present. We had about 35 minutes to set up the generator, string feedlines and cords, set up two radios, link two computers, set out a card table and chair and “get our heads screwed on”.

The plan was for me to CQ a lot (CW...2 points...) and for Darren to comb 40 SSB for mults and perhaps CQ some on 20 SSB. Initially I spent a few minutes looking for mobiles on 40 cw and then found a spot to CQ. The pileup that ensued was exhilarating; the rate meter hit 120/hr and remained there for quite some time. As it slowed a bit, I indicated to Darren that he should let me know if he found someone to call. With a combination of verbal exchanges, hand signals, grimaces and other gestures, we managed to coordinate calls so as to comply with the “one transmitted signal” rule. Watching Darren’s face as he called (and called again) stations on 40 SSB was priceless....

Disaster threatened when I tried 20 CW for the first time. Every time I keyed the rig, the computer went berserk. Even if I didn’t key the rig on 20 meters, if Darren transmitted on any band, the computer sent didahdidahdidahdidah.....AAAAUUUUGGGGHHHHH! Of all the times not to bring along a straight key! I finally got the idea of pulling the paddles from the mobile rig that Darren was using on SSB, hooking them directly to the radio and using one side of the paddles as a straight key. If you worked me on 20 CW and wondered what the heck I was doing...well...that’s what I was doing..... It wasn’t pretty, but I managed to make about 50 contacts by that method, including most of our DX contacts.

Darren combed the bands for multipliers, interspersing an occasional SSB contact with the CW. He also shoveled a sandwich or banana in my direction once in awhile; fortunately he had remembered to pack food. I hadn’t given it a thought! Along with the IL mobiles he found, he finally made contact with a JOTA operation in British Columbia for a new mult. Unlike other years, there was no “lull” in the action.

The day was absolutely gorgeous, with a few clouds, light breezes and temperatures in the 70’s. When the sun went down, however, the temperature dropped like a rock. By 0000Z, I found I could barely feel my fingers on the keyboard; also, the display on the old laptop was quite dim, and the light I had brought along had a broken on-off switch. So much for “thinking of everything”. Darren stepped up his efforts to find stations on 75 meter phone, and I tried to anticipate where KJ9C, KF9D and NN9K would show up next. With twenty seconds to go, K9NSS called me for one last mult (WMSN) and we pulled the plug on the operation. Three-quarters of an hour later, we were packed and headed home, thinking of pizza awaiting us there.

No contest effort is complete without an evaluation. What did we do right? Well, we operated the whole eight hours and nothing broke. The Honda generator performed like a champ, as usual. The farmer disking corn stalks in the field we were in didn’t run over us or any of the equipment. It wasn’t windy enough to blow down antennas or blow dirt all over the radios. (Monday would have been an entirely different story!!). We found more IL counties than I’ve ever worked before in ILQP (76), partly due to having a second operator. We did manage to get our 5 DXCC mults in a non-sunspot situation

(USA/VE/KL7/DL/9H). What we found however, was that we were extremely limited by the antenna/radio combinations. The 40 meter inverted V was no better than the mag-mount vertical on the car. The fact that both wire antennas favored the north-south direction meant we were stronger than horseradish in Alabama and Minnesota but missed a

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June VHF Activity

By Kevin Kaufhold, W9GKA

We have a very good turn-out expected for the upcoming June VHF. I am counting 26 positive responses so far, with 23 in the SMC circle. The SMC does the best in this VHF contest, as 6 meters is close to HF conditions when it opens.

Here are the people planning on working the event. Some plans are still tentative.

AI9L moved antennas; on 6, maybe 432

K9GY will be on from qth en61

K9JK rover 4 grids + around en51 area

K9ZA rover 4 grids st. louis area

KG9IL maybe; working on antennas

KG9N 2 & 6; 400 FM simplex

KX9X in en20; W1JT skeds?

W9GKA 6-432 em58

K9OR 2, 220, 440 fm, 6

NG9R maybe at n9jf using ng9r call; multi; 6-1296;

K9RN maybe with a new call 6-1.2+L

N9UM part of some multi on Sunday; 6,2, 432;

K2DRH big effort planned, again.

K9ZO will be on

N9AKR will be in part of contest

WO9S 6-432

AA9MY6-432+1.2; + 2 EME 500W!

WB9Z planning to be on

N9TF will be on 6-432 between a marathon!

K9SG Multi at Greenfield, w/ unknown call 6-432+1.2

W9SE 6 and 2 PT

KI9A 6 and 2 from QTH

W9RVGPT basis only 6-432; rebuilding antennas & twrs

K9IJ with N9UM at some multi in EN52

W9XA 6-2.3; Kw on 6 at 150 ft; 2 EME

W9SZ EN50rl or EN50xf 6-10g QRP

If anyone else is planning on working the event, please let me know. we would like to have a great turn-out this time. I will have final details on grids, bands, etc when plans firm up on several of the stations.

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It was my idea to change the way we govern this club. I am happy to say that everyone I talked to was very supportive, and I am counting on their support and your support as we head into the future.

Starting April 1, the SMC will be led by a 9-person Board of Directors.

You know these guys. They are all active, successful contestants who have proved over and over that they are committed to making SMC even better.

These directors, who serve a 3-year term, are the policy-making body for the club. (The terms are staggered). We hope that others out there will step up and agree to serve as director when asked. These are the folks who "make the rules" for the club, and also pitch in and help get it done.

They are:

WE9V, Chad Kurszewski (2 year term)

AG9A, Mark Obermann (2 year term)

K9PG, Paul Gentry (1 year term)

WB9Z, Jerry Rosalius (3 year term)

W9RE, Mike Wetzel (3 year term)

KM9M, Zig Markowski (2 year term)

KK9K, Ron Feutz (1 year term)

KA9FOX, Scott Neader (3 year term)

K9ZO, Ralph Bellas (1 year term)

The board is structured so that there are 3 openings every year. That way we have the opportunity for turnover and new blood. The initial terms (indicated in parenthesis) were selected randomly - directors can be re-elected.

The Board will elect a President, who will serve a two-year term. The President's job is the same as always - to lead the club.

I've volunteered to serve as President if the Board wants to elect me.

I've got some definite ideas about what we could be doing to make SMC an even better club. Perhaps you do too. I'd like to hear them, and I am sure the folks listed above would too.

My goal for SMC is very simple. That is to figure out what we want to do, and then to do it very, very well. What are you looking to get out of SMC? I plan to have an online survey going in the very near future to ask each of

you that question.

We'll be convening electronically before Dayton to get things going. And, of course, there'll be plenty of opportunity to voice our views with each other then.

Obviously, there is much more to come. Watch this space.

Ed. If you haven't done so already, please go the link below and take the SMC survey to let the board know what you would like to in the future of the SMC.

Survey link:

<http://www.bs.edu/mcobwin/surveys/barkey/smcsurvey.asp>



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large number of eastern and western states. Our lack of discussion ahead of time about operating strategy meant we probably spent too little time CQing on SSB. One more good wire antenna favoring east-west and a tuner on the second radio would have helped a lot. An amp would have been a big asset on SSB. (I don't own one...yet...but....). Hey, we had fun!



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20 meters has been good at the start the last few weeks but with multipliers per band you need to move down the bands. Generally 80 is active the last 15 minutes and 160 the last 5 minutes.

See <http://www.nccsprint.com/default.htm> for complete details.

N9CK has been active lately plus several east coast stations along with quite a few of the west coast stations.

Why not listen and maybe join in the fun, after all 'contest' is in our name.

You can email me with any questions. I can give you a list of active stations so you can be a little prepared for who you might hear/work.

Illinois QSO Party

4 county line

Champaign • Vermillion • Edgar • Douglas



Dave, N9FN, started doing state QSO parties 2 years ago and has already done portable operations in the IL, IN, and MI parties. In 2004 & 2005 Dave did portable operations in the ILQP from the Champaign/Douglas/Edgar/Vermillion county line. See the full story in the next issue.



State QSO Parties Issue

I've received a bunch of material from SMCers who have done portable operations in the state QSO parties. And, by coincidence, the latest issue of the NCJ was devoted to mobile contesting and had a number of articles written around the state QPs.

So I'm going to ride the wave and devote the next issue of the Blackhole primarily to the State QSO parties. If you have a story about your state QSO party operation, or some hints and tips for participating in these contests, please take some time to write a few paragraphs and send them to me. If you don't like to write, send me a picture or two (be sure to include captions).

Thanks, Brian/K9QQ

2005 ILQP Results

From the RAMS ILQP Website

Propagation seemed not as good as the last couple of years but there was plenty of activity nonetheless. Beautiful autumn weather throughout Illinois made it a great day for operating outdoors or from the road. K9ZO regained the top position in the Fixed category, while the team of KF9D and W9HB continued their streak of first-place finishes in the Mobile category. KN9T and N9GZ also repeated their top finish in the Portable category. N9MZP set a new record in the IL QRP category by beating his own 2004 score by 4k points. Likewise, the Green River Valley ARS broke their own record in the IL Club category and cracked the 1 million point mark for the first time with

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VP9/K9CC, ARRL DX CW 06

By George, K9CC

I operated the ARRL DX contest the first time from my son's house in Bermuda in 2003. Since it was a rented house I opted for a light and simple set up. I used a little Diamond CP6 vertical mounted on the chimney of the house for 10 thru 40, and an end fed wire about 130 foot long on 80 and 160. The wire barely cleared the roof and had many bends in it. To my surprise I finished 7th in the world in low power class CW, even though I only operated 30 hours. The next year (2004), my son had moved to a new rental house which had room for better low band antennas. This time I had the CP6 plus a full size inv vee for 80, and an Alpha Delta 40/160 dipole with traps. This time I did much better on the low bands, and I was looking forward to daylight operation on 20/15/10 with anticipation. I knew that propagation on 10 had deteriorated since the previous year, but 15 was still in good shape. It turned out that I did well on 20, but I just could not get anything going on 15. I became so discouraged that on Sunday I actually spent quite a bit of time watching TV. I later realized that I had assembled the CP6 incorrectly. To my amazement I finished 8th in the world! I missed the 2005 contest because of prostate cancer, but I was ready to really kick butt in the 2006 contest. This time I was going to stay on the air instead of giving up, and I was going to have a triband beam! If I could come in 8th the way I screwed up in 2004, I should really clean up with a beam and a winning attitude! Unfortunately it appears that it will be hard for me to improve my position. Based on the posted results so far, I am going to finish 7 th or 8 th, again! However, I am still having a lot of fun.

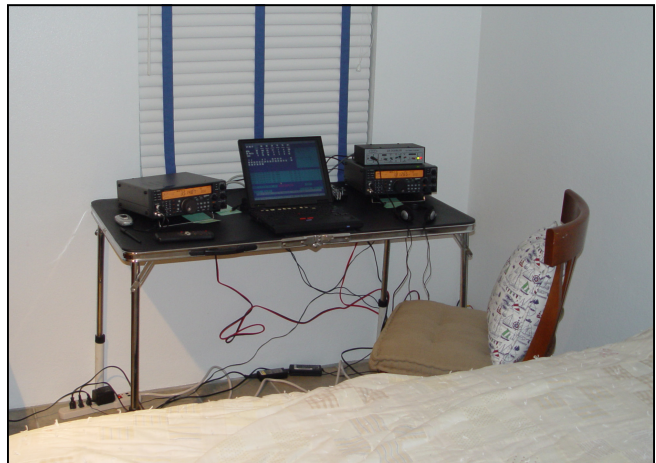
The Set Up

All of the antenna masts are attached to 4" PVC plumbing vents on the roof of the house. I use stainless steel screw clamps to attach the masts to the vents. When I am done operating I can quickly remove everything and the house is back to normal. For the dipoles I use a MFJ fiberglass push up mast. I don't use the top three sections, so the mast is about 20 feet high. A mast like this will hold up quite a bit of weight/downward tension, but there are a few precautions. When you erect the mast, raise the bottom 4 or 5 sections (largest diameter) first, with guys attached but not the antennas. I use nylon twine for guys. Now lightly tension the guys and lower the mast. Now add about 4 feet of slack in each guy and raise the mast the final time, this time starting with the weaker top sections, and with the antennas attached. By following this method you lessen the risk of breaking a section from excessive bending. I learned this the hard way by breaking one in 2004. After raising the mast, carefully tension the antennas. In my final installation the antennas become the primary guys. Another precaution is to



Base of the mast for the beam. The rubber sheeting is to prevent the mast from rotating

put a screw clamp at the bottom of each section after pushing it up. I found that in wind and rain the sections will collapse otherwise. Since the dipoles are in inverted vee configuration, there is a lot of down force on the mast. The mast for the Cushcraft A3S beam is another push up mast consisting of three pieces of slip fit aluminum tubing/pipe that totals about 17 feet when raised. The sections are drilled and a pin inserted after raising each section. The beam is fixed on the central USA.



The operating position for VP9/K9CC. Contrast this to the PJ2T picture in the last issue of the Black Hole. Especially since the second radio was only a spare

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The operating interface is TR on a lap top computer, and a Kenwood TS-570.

Operating Before and After the Contest

Before the contest started I got signal comparisons between the CP6 vertical and the A3S beam. I averaged about 2 S units better with the beam. Yesss!!! I was ready to kick butt!



Looking just south of west from the roof top. Note the beam orientation toward the central US.

I also worked numerous Europeans on 160 including Asiatic Russia! It looked like I would finally work people on the west coast on 160 during the contest, since I was reaching out to a much greater distance than W6 before the contest. I also expected to do much better than in the past on 20 and 15, since I had a beam.

Contest Results

My final score was about 2,000,000 points, with about 2600 Q's and 260 multipliers. I managed to stay in the chair for 38 hours. My operating suffers because I tend to develop a back ache. The chair is really not the best, but I have a couple of ideas. The first is to raise the table higher than the typical table height, so that I will not be hunched over as much. The second is to maybe buy one of those tapered "pillows" to put behind by back. If anyone has any pointers on this subject I would be glad to hear them.

In comparing my score to VP9/W6PH, the two obvious short comings are 160 meters and 20 meters. I am not surprised about 160, but the 20 meter difference is surprising since I now have a beam. Perhaps I spent too much time on 15 and 10. Incidentally I did not work the west coast on 160 again. The farthest west I worked was the Rocky Mountain States.

I had also hoped to operate SO2R. I had purchased an Array

Solutions DXD 2 radio controller, and tried it in a contest at my home QTH. It works great, and there was very little cross band interference with the home antenna system running low power. But I knew that I needed more experience before I would really be proficient running SO2R. That is assuming I will ever be proficient at it. In any case, it's always fun to try something new! The other unknown was if I would have cross band interference running SO2R in Bermuda without pass band filters. I decided to try it first, and buy only filters for the necessary bands. It turned out that interference was a problem on most of the band combinations. I tried SO2R for a short while on a combination where there was no interference, but I stopped when I didn't seem to reap a noticeable improvement. I was also worried about being a high profile lid since I was still in the learning curve.

Comparison to VP9/W6PH

My "target" is VP9/W6PH, since he is on the same island about 2 miles away, and his scores are higher than mine. It is important to compare to another VP9 instead of a station in the Caribbean, due to the propagation differences. From VP9 we have an advantage on 160, but don't do as well on 10 and maybe 15. Kurt is a retired airline pilot who operates from VP9GE's "bed and breakfast". Kurt's advantage is that VP9GE is a little closer to the ocean on a hill dropping off toward the ocean, with a great view of the ocean looking towards the USA. Also there is more room for a 160 meter antenna, and the tribander is an A4S with an extra element compared to my A3S. At my location there is a slight hill between me and the ocean. Kurt's disadvantage is that he doesn't get all that good exercise putting up and taking down the antennas. Kurt is a good guy who has even sent me his rate sheets to see if I can pick up any pointers as to what bands to be on at what time. It's beginning to



View from road at base of hill, south of the house.

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look like he doesn't have to worry about me beating him in the contest.

The Antennas

My son's house is approximately ¼ mile from the ocean. The house is on a hill about 30 feet high that falls off to the south. The 80 meter inv vee is oriented east and west, end on to the US. Normally this would be bad, but due to the slope of the lot the house sits on, the west end of the antenna slopes down at a sharp angle, which I believe favors radiation to the west. In fact I might do the best on a comparative basis on 80. While running stations on 80 at the beginning of the contest, my first Californian called me 30 minutes before California sunset followed by a New Mexico station. The 160/40 meter antenna is an inv vee that is ori-



View from the side of the house looking west.

ented north to south, with traps, and is shortened for 160. I have a plan to improve the 160 meter antenna to a full size inv vee in 2007. I would need to go off the lot with the ends, but I think I will be able to get away with it on a temporary basis. The antenna would be oriented approximately east to west, with the east end about 20 feet lower than the middle, and the west end about 75 feet lower than the middle. As with the 80 meter antenna, I would have the "sloper effect" to the west by utilizing the existing terrain. Here again, the fun of trying something new.

The Serendipitous Mister Tessmer

Fellow SMC'er Mike Tessmer, K9NW (first place central division unlimited class in 2005 CW SS) had sent an e mail to me saying he was going to be in Bermuda after the contest, and suggested that we might get together for dinner. Mike and I had never met and I thought that meeting him in Bermuda was a cool idea, so I gave him my telephone number in Bermuda. On Wednesday after the contest he called

in the morning, and we agreed to meet for supper that night. He said he would call me later with the details. Later that morning I went to the islands biggest hardware outlet with my daughter in law, to purchase some hardware. While in the store I asked a man where to find a certain kind of small specialty hardware item. He said he did not work in the store, but he showed us were to find what we were looking for. I remarked to my daughter in law that we were lucky he was there, since he was from the company that supplied that particular product line, and he probably new more about it then the store employees. I also said that he certainly didn't sound like a local. Yup, you guessed it; we later found out that man was Mike. He was in Bermuda revamping the entire specialty hardware display.

Looking Forward To 2007

73, K9CC



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entries from 24 members. WA3HAE from Pennsylvania had the highest out of state score, and W8TM from Ohio had the top QRP score from outside Illinois. A total of 226 entries were received, another new record.

Again we thank all the mobiles and portables for their extra effort, especially those who came in from neighboring states to put IL counties on the air. The ILQP is fortunate indeed to have such enthusiastic participants.

After 35 years of sponsoring the Illinois QSO Party, the Radio Amateur Megacycle Society now turns the reins over to the Western Illinois Amateur Radio Club starting in 2006. RAMS wishes WIARC much success with the ILQP. Please visit the WIARC website, www.w9awe.org in the coming months to get information about the 2006 ILQP. The ILQSO email reflector remains available as always. Sign up at <http://mailman.qth.net/mailman/listinfo/ilqso>

Ed. Check out the other area QSO parties:

INQP: <http://www.hdxcc.org/inqp/>

WIQP: <http://www.warac.org/wqp/wqp.htm>

MOQP: http://www.qsl.net/w0ma/mo_qso_party.htm



9th Call Area CQ WPX CW Records

by Mike Tessmer K9NW

Single Op All Band High Power						Single Op Assisted High Power						Multi Single				
KW9N	6,698,560	2813	865	2004	N9RV	K9NR	3,098,224	1759	654	2001	KW9DX	4,781,969	2513	757	2000	
WE9V	4,629,912	2418	744	2001	KB3AFT	WN9O	2,475,660	1508	660	2005	W9IU	KS9O	4,258,254	2651	858	1991
N9RV	4,190,700	2256	687	2002	W8LVN	WN9O	2,304,880	1415	613	2001	W9IU	NA9J	3,003,168	1990	574	1988
K9DX	3,286,005	1841	705	2005		K9NR	2,215,080	1519	586	2002		KJ9D	2,623,288	1824	538	1983
KS9K	2,899,548	1858	674	2003	N4TZ	K9NR	2,150,874	1456	594	2000		KS9O	1,899,710	1359	542	1989
Single Op All Band Low Power						Single Op Assisted Low Power						Multi Two				
KK9A	3,271,524	1827	681	2002		WN9O	1,653,792	1306	604	2003	W9IU					
KS9K	3,193,823	1829	653	2001	N4TZ	K9YO	1,363,205	1125	515	2000						
KS9K	2,886,102	1668	654	2002	N4TZ	K9CS	1,144,284	919	501	2001						
KK9A	2,782,800	1700	720	2003		WO9S	326,326	559	326	1994						
K9QVB	2,409,546	1549	606	1999		K9PG	266,124	331	331	2000						
Single Op All Band QRP						Tribander/Single Element						Multi Multi				
WO9S	911,803	844	439	1999		KJ9C	1,869,160	1299	563	2001	ES2RR	AA9OC	2,878,143	2143	771	1996
WI9WI	414,494	504	334	2001		W9IW	1,729,954	1259	578	1998						
N9CIQ	254,982	358	273	1999		KK9K	1,380,090	1308	537	2005						
N9CIQ	230,300	361	245	2000		WA9IRV	1,005,168	1061	487	2004						
WB9HRO	184,920	330	230	1988		K9MMS	563,030	603	355	1999						
Single Op High Power 160M						Single Op Low Power 160M						Single Op QRP 160M				
W9CG	504	24	21	1980		AA9AX	2,016	100	72	1994						
W9CG	124	9	8	1982		AA9AX	192	18	16	1996						
W9CG	112	14	14	1981												
Single Op High Power 80M						Single Op Low Power 80M						Single Op QRP 80M				
KJ9D	21,816	157	108	1984		KX9DX	2,680	52	40	2003	KS9U	2,600	54	50	1984	
											KS9U	1,258	42	37	1983	
Single Op High Power 40M						Single Op Low Power 40M						Single Op QRP 40M				
K9CC	377,872	537	304	2004		W9SE	153,573	315	213	2002	W9CG					
WX9U	303,324	419	314	1994		K9WJU	95,524	200	167	2004						
WD9IIX	117,040	329	190	1982		KB9BIB	34,568	220	149	1992						
WB9MLY	95,604	240	186	1993		K9CJ	32,680	102	95	2001						
WO9S	67,308	213	158	1995		N9ENA	28,296	125	108	1998						
Single Op High Power 20M						Single Op Low Power 20M						Single Op QRP 20M				
K9NW	3,268,210	1761	730	2001		K9QVB	1,737,736	1187	616	2001	K9OSH	145,530	293	245	1992	
K9NW	2,916,960	1639	708	2002		K9QVB	1,644,300	1151	630	2005	KB9S	111,552	292	224	1986	
K9NW	2,857,180	1618	766	2005		K9QVB	1,488,616	1085	584	2002	KK9A	88,555	312	199	1983	
K9NW	2,729,272	1685	728	2003		K9QVB	1,257,844	1015	538	2000	NJ9C	82,892	270	212	1986	
NE9U	2,427,956	1552	716	2005		K9QVB	1,076,920	929	545	2004	K9OSH	64,770	195	170	1989	
Single Op High Power 15M						Single Op Low Power 15M						Single Op QRP 15M				
K9NW	2,828,244	1594	676	2000		N4TZ	1,251,432	951	504	1999	W9OA	27,720	116	99	1980	
N0BSH/9	1,888,195	1425	505	1988		W9ILY	656,604	619	414	2001	AE9F	25,538	133	113	2003	
K9QVB	1,088,263	957	451	1988		W9ILY	402,204	466	363	1999	NI9C	4,720	66	59	1990	
N0BSH	713,673	776	443	1992		N2GM	215,646	376	283	2003	WT9S	952	30	28	1999	
W9OA	376,831	540	287	1981		WA9BOW	133,170	283	230	1993						
Single Op High Power 10M						Single Op Low Power 10M						Single Op QRP 10M				
KB9HG	16,200	140	100	1981		KX9DX	18,972	102	93	2002	K9MU	247	14	13	2005	
KA9AUS	1,924	42	37	1980		K9CS	8,775	72	65	2005						
						W9IXX	546	14	14	1999						

SMC Stuff

SMC Clip-on Badge

by NV5A

The SMC logo appears at the top-center of the badge in black and white. Your call sign, first name and city & state appear in dark blue. The SMC name badge as shown with the slot & strap with swivel alligator clip, but there are other choices.

Price: \$14.50 (includes s&h).

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KC9FD

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Milwaukee, WI 53213

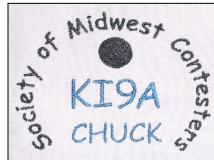
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FAX (414) 258-8656

Be sure to note that it is for a "Black Hole" badge and please allow a couple weeks for delivery.



SMC Shirts

SMC short-sleeve Polo shirts are available in two styles: white shirt with "SMC" in black and "name and call" in blue lettering as shown below, or red shirt with black lettering. The cost is \$20, including shipping. You can email your orders to AD9P@swbell.net (Al) or N0UXQ@swbell.net (Sandy)



WRTC 2006

Florianopolis Brazil

8-9 July 2006

Member/New Member Information/ Update Form

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