



Meeting
Tuesday
Nov 21st
7:30 p.m.

160 Meter
Contesting - a little
pistol trying to make
big noise on 160 by
Mark, K2AXX

Just a reminder, November is
a test session month. Spread
the word!

President's Soapbox

Mike Rundle, N1OKL

By the time you read this, the 2000 CQWW SSB and Sweepstakes CW will be history. As I noted in the RDXA Onelist email postings after CQWW, there were some very impressive scores and comments about some super conditions on 10 meters. Let's hope the predicted high A-index for Sweepstakes weekend do not materialize.

Taking advantage of the fine weather (terrestrial, that is) during CQWW, I put the final touches on my 40m folded dipole: finishing the counterweight system, mounting the balun and lightening arrestor box outside the house, routing the 300 ohm feedline to the arrestor and balun and the coax into the shack. I finished up the connections just as the contest was nearing an end, but I can report that this antenna hears well; it's quiet and at least 1-2 S-units above my old Gap vertical. Resonance is dead on for the design frequency of 7150 kHz with 1.7:1 VSWR or less over the entire 40-meter band. Nice when everything works out as planned!

If everything goes as planned for Phase 3D, the new amateur bird will be launched on 14 November: the delay of 2 weeks being due to the non-arrival of the primary payload for the flight. All preflight preparations for P3D are complete and the satellite is currently mounted atop its Ariane 5 launch vehicle at the Kourou Spaceport. Continuing the tradition of innovation for amateur satellites, P3D incorporates a 100 milliNewton arcjet thruster using gaseous ammonia fuel. This engine will provide for station-keeping and minor orbit adjustments and is the first application of an arcjet thruster for control of a non-geostationary satellite.

The final P3D orbit will provide hours, yes hours!, of coverage over North America, Europe and Japan--with a repeat of the rise and set times almost exactly every 2 days. Combined with the gain of the antennas and the power of some of the P3D transmitters, communications via P3D should be possible with a very modest ground station. Plus, the nearly exact repeat of the P3D orbit should make possible communications via the satellite with a fixed antenna array! If you have been thinking of getting into satellite work, P3D will provide the means to do so with a modest setup. For those with 10 GHz equipment, imagine the excitement of working worldwide DX on this frequency...another possibility with P3D. Check out www.amsat.org for the latest photos and status of the project.

Editor's Corner

Dave Wright, N2CK

The Field Day results are in. RDXA finished well up in the standings at 4th (more on Field Day results later on from Mr. Field Day, **W2TZ**) so I won't steal his thunder.

Speaking of Fred, I had the opportunity to review his log from CQWW. It's quite a humbling experience to open a text file with notepad, only to see the message "That file is too big to open with notepad. Would you like to use wordpad?". Someday, I wish I could produce results like that! Awesome effort Fred!

Keeping with the theme of 160-meter operating, I've included an article suggested by **Rus, K2UA** to determine if you are afflicted by the TopBand Disease.

New Members

Fred Gern, K2FR

We have four new members to report this month **AI, K2MPE, Bob, N2USB, Gene, W2LU**, and **Charles, WB2HJV**.

This brings RDXA's member ship to 81!

We would like YOU to bring a new member.

To keep it that high please read the next item.

Dues are REALLY due

Fred Gern, K2FR

If you happened to notice that **YOUR** mailing label had **YOUR CALL** in **RED** letters on a **YELLOW** background: Guess what?

Your **Dues are still due** and you will only get **ONE more issue** of the newsletter unless you PAY!

If you paid after I printed the labels the date will be changed on the label manually.

Don't mess with grouchy bill collectors!

P.S. If you paid after I printed them there is a little note on the label.

Notice to all members:

Fred Groner, W2TZ

Field Day 2000 results are in December QST. RDXA placed 4th in the nation in 3A category with **12,520** points. Congrats to RDXA for a fine Field Day effort. Finishing in 4th place out of 344 entries isn't that bad! In fact, RDXA was only 400 points away from placing #2! First place was a Colorado station, and those of us who operate domestic contests know that Colorado often has a dominant skip/propagation advantage on the upper bands, especially. Great RDXA club effort.

RF Follies

Fred Gern, K2FR

We are in a hobby that sometimes is attacked (usually at tower permit time) with the evil words RF. In a Pittsford case neighbors were *supposedly worried* about the exposure of "their children" to *Radio Waves!* Worse yet the board took their side.

Then you pick up the newspaper or tune in your TV and under "Science News" they tell of new and miraculous cures and treatments for diseases using *Radio Waves!*

Do you think it's about time that hams start saving the articles and noting the TV broadcast as arguments for OUR side that *Radio Waves* ain't necessarily bad.

And of course we could always remind them that cell phones use *microwaves* and are really radios in disguise.

Think about it.

VK0MM QSL Information

Fred Gern, K2FR

The QSL process will commence in January 2001. The QSL route will be announced on this site around December 2000:

<http://www.geocities.com/vk0ld/1.html>

- 1) QSLs sent to the *VKØLD / VKØMM* license address WILL NOT BE ACKNOWLEDGED.
- 2) NO BURO CARDS
- 3) PY2YP & the CW group of Sao Paulo are NOT the QSL managers for *VKØMM* & *VKØLD*: They are only QSL manager for *AXØLD*.
- 4) There is NO QSL manager for *VKØMM* & *VKØLD*.
- 5) SWL reports will require at least 5 consecutive call signs to establish authenticity

Thank you for your patience and cooperation, 73 Alan

Read this and you will NOT be asking lots of questions!

DX 40 Years Ago – November 1960

Ed Gable, K2MP

Sunspots are dying out and earning DXCC with ten watts and within a month is not quite as easy. It was a fantastic cycle. This writer remembers, as a high

school lad, having breakfast every morning with ZS9G on 10 meter AM using a 10-watt rig and a Gonset Super-Six converter in front of a Philco table radio. A dipole on the back porch did the trick with ease. KARL, the Korean Amateur Radio League, announced new call signs with US serviceman keeping HL9 while HM goes to Korean nationals. The series HM6-7 is reserved for the pending North Korean unification. (Something didn't work there – Ed) Also changed was the confusing I5 pre-fix for Somalia to 6O1. Old-timers will remember Gus Browning, W4BPD, and his wandering Dxpeditions. This month he is planning Tromelin, Reunion, Mauritius, St. Brandon, Tanganyika, Kenya, Uganda, Somalia, French Somaliland and the much sought after Farquhar Island. Pretty busy chap, especially when lugging big old Collins gear around. Also still going strong, on his third sloop, the *Yasme III*, after sinking the first two, is Danny, VP2VB/mm, heading for Galapagos, Marquesas and other known and not so well known islands. Just in time for DXpedition use is what was called “A Station in a Suitcase.” Collins announced the availability of a KWM-2 transceiver, a new PM-2 power supply, all packaged in a suitcase weighing less than 45 pounds. The ad says, “write for price.” Oh Oh!!

HF Mobil de W2RW

Rick Wells, W2RW

The last time I was HF mobile was in 1970 with a TR-4C in a full size station wagon. The TR-4C by the way, pulled about 13 amps in receive! I had a Hustler with a 40 m KW coil on a bumper mount and a spare battery in the back seat hooked into the auto charging system. That was a long time ago.

Anyway, 30 years later, after getting a new Chevy Venture, I thought it was time for another try. This time it was going to be an ICOM IC-706MkIIIG. Two years ago I had the opportunity to use a 706 belonging to K2ZAA while traveling to and from Dayton, and found it to be a really fun rig. More on that later.

Since I still had the Hustler, and actually had added to my resonator collection over the years primarily to just operate fixed portable on a few occasions (working HF while on the Pumpkin Patrol really helps pass time) I decided to install the Hustler mast on the Venture. Well, no big chrome bumper on this baby. Taking the idea from the GM guys that are always exhibiting at Dayton, and with the help of my very handy son-in-law, I fabricated a pretty hefty piece of ½ inch aluminum 3 inches wide, attached to a 1-inch spacer block. These are bolted right onto the level compressor bracket, which in turn is bolted onto the vehicle frame. This piece protrudes out about 10 inches from just under the plastic covered bumper. At the end of it is the Hustler 1½” chrome ball mount and mast. In this position, the aluminum bar is slightly less rearward than the center of the bumper and slightly inside the profile of the driver's side rear-view mirror. The mast is between 6-8 inches away from the body, clearing the rear hatch door when it opens and closes.

The AL bar is grounded by three pieces of braid, which are bolted to the frame. All hardware is stainless, of course (Debbie Supply in E. Rochester). The feedline is RG-8X and is routed into a hole in one of the two sheet metal beams. It runs through the beam to about the vehicle midsection, then comes into the passenger compartment next to the seat mounting bracket behind the driver. By the way, I was going to do permanent mounts for the VHF/UHF antennas, but it turned out to be unnecessary. The mag mount feedline had a perfect fit and

entrance, out of the way and everything, down the rear side of the driver-side sliding door.

My XYL Ginny, N2YKK, found a nice plastic mini van console for about \$25 at K-mart that fit exactly between the front seats. This was just right for mounting the VHF/UHF dual bander onto along with an external speaker. It even added two-cup holders for coffee mugs on the long road trips. The 706 sits on the floor behind the console, between the front seats, on top of the ATU. The control head/display is stuck right on top of the dual bander with an 'L' bracket and double stick tape. What a perfect placement! The mics lie in two of the four-cup holders.

Sorry, I didn't bother to go to the battery, only into the dashboard fuse compartment where there is one spare fuse position to find 13.8 v. I don't have any alternator whine, but there is some ignition noise which is 95% deleted by the NB in the radio. Testing with external power as well as another antenna proved the ignition noise is simply received via the mobile antenna. That'll be a project for another day, to see if some of that can be reduced. The NB in the 706, as well as some other radios I have used, is quite effective but at the expense of distorting strong signals and rasping in the presence of strong adjacent stations. That's OK. I didn't expect the kilobuck 706 to have a contest-class receiver. But it's not too bad either.

I elected to go with the rather pricey matching ATU thinking that it would provide more usable 2:1 VSWR, which it does. Of course, I took the pajamas off of it, and promptly became worried when I saw the fan. Hey, this thing isn't supposed to dissipate power! Well, it costs about 10 watts when it's in line. I know where my whips are tuned so I don't use it all the time. It keeps track of things

automatically while you're transmitting and adjusts accordingly. One thing I don't like is that it will drop out of line if it can't bring the VSWR down to an acceptable level, leaving the operator to have the presence of mind to notice the LED has gone out. I figure by that time, I might have toasted the final transistors.

The 706 is slick. It has lots of stuff to play with. If you don't like the idea of pushing buttons and using menus, buy a different radio. Personally, I like this one. A very nice tuning knob, variable tuning ratios, and big display make it a pleasure. If you consider this radio for VHF/UHF operation, don't forget that it does not come out of the box with a DTMF capable mic. That's another \$70 you'll have to part with.

SS CW Recount and Bladder Control

Fred Groner, W2TZ

Ed note: Don't shoot the messenger – I just print what I receive!

Sorry to report that I still don't have a final SS cw score to report. The fashionable thing to do these days is to recount. I'm really into it and am presently into my 3rd SS recount. It's fun.

In spite of not having a final score, the analysis of my SS contest effort has begun in order to assess improvements.

The first rule of contesting is that if your hand is not on the key or keyboard, you are not making QSOs. One manifestation of that rule is to keep your thrusty friend under control so you don't waste any time.

I have searched the RDXA archives and am happy to report that I have set a new RDXA standard in bladder control.

During the cw Sweepstakes, I went from the start of the contest @2100z to 0932z the following day without having to take a pee - a period of 12 hours 32 minutes!!! That's great. Regardless of my final SS score, I'm proud of this accomplishment. Any challengers?

Bizarre Calls and Meterisms

Fudy Dudy (askfudydudy@hotmail.com)

Recent news items have even affected ham radio as noted in these bizarre calls:

F1RE is qrv as **STØNE**

His name is **Rollo Ver**.

2 Meterisms:

The "qso" turns to opinions and one "new" guy says "You probably think I'm stupid for saying that" and the reply is "**dit dah dit dit dah dit**" !

Not a clue!

And then the "new" guy breaks into a qso and says to one participant " I heard you in there and just wanted to wish you a **quick 73** !

How's DX?

Chris Shalvoy, K2CS

I hope you all had an opportunity to operate during the CQWW SSB & ARRL SS CW. Bands were in great shape and almost anything you heard was workable. CQWW SSB this year was unlike most of my operating experiences. The **DX guru**, **K2FR** often spouts, "Go up high on 10 meters and call CQ". Sure...

Well, I gave it a try. What the heck, **28.910 MHz was open**.. Low & behold, I ran 'em like others in the club and even had an 84 q' hour! You all know the operating circumstances... Felt like W2RDX at field day! All told, 630 q's on 10 meters.

From here, SU on 20m first night, K5K on 15m, that's about it for rare DX. Still missing all the (good) Asian stuff, though must admit, I know I can't win in the pileups.

Needless to say, almost eclipsed my all time best with much less operating time. This 10m stuff is fun but I miss the low bands. 80m & 40m were tuff, 160m was a bust. Having been around for the last 10 years seems funny to have 20m meters the LAST band I go to. Great for mults but all the DX is on 10m or 15m.

I'm very happy I learned the ropes during the "low spots".

I've posted all "confirmed" scores received via email. A few logs need to be typed in, others were speculation. Best bet is to get them to me via cshalvoy@worldnet.att.net or to post on the list.

SFI *down* around 150 lately, A & K very high. Still, Dxing is great! From the cottage, I was working Europe on 15m at 3AM LOCAL!! 15m closes *here* at 9 pm... Height and noise....

K5K was incredible!! Talk about knowing propagation!! These guys (and gals) played the sun for all it's worth. All bands but 160m here. Didn't try RTTY but bet I'd be in the log if I had. Great operation, almost as good as ZL9.

S0 was a surprise on 20 the other night, 1 call. Goes to 18m too late for us, not a peep! He's been loud on 10m but too many "cops". It's a shame, when you can hear HIM, nice signal.

IN THE LOG (non-contest, only the good stuff)

HF0POL (15M CW)
5X1P (17M CW)
XT2OW (30M CW)
3A/DJ7RA (80M CW)

ATTENDED RDXA MEETING

ZK1BQI (20M, 18M CW)
BA4DW (10M SSB)
FO0WEG (10M SSB)
K5K (17M, 30M, 15M, 20M, 10M,
40M CW); (12M, 10M, 17M, 20M, 80M,
SSB)
DU1/DK3GI (10M, CW)
DU3NXE (10M, CW)
E30TA (17M SSB)
S07U (20M CW)
OX3FV (12M CW)

Thanks once again to the 59(9)
DXReport, my main source of weekly DX
information.

The TopBand Disease!

Larry "Tree" Tyree N6TR & K7RAT

*Ed note: Reprinted with permission of the
author. The site url is:
<http://www.jzap.com/n6tr/tbdisease.html>*

Hello - my name is Larry Tyree - I have
TopBand disease. It has been 14 hours
since I have last worked Europe on
TopBand.

Yes folks, some of my close friends and
family members know this, but to the rest
of you, this might be a surprise... I have
the TopBand disease, and it is a bad
case. I have had this disease for about 25
years now. At times it appears to be in
remission, but then it comes back strong
(this appears to be related to sunspots).

For those of you not familiar with Amateur
Radio, some background information will
help you fully understand this condition.
Some people in Amateur Radio call
themselves "DXers". DX is a term used to
indicate "far away". This manifests itself

as a strong desire to "work" as many
different countries as possible. After
working a new country, the patient will
experience a "high" similar to the one
experienced by a sport fisherman when
he actually catches a fish. However, after
a few hours, this high is replaced with
anxiety while waiting for the "QSL card"
from the station worked.

These QSL cards are proof that the
contact took place, look great on the wall,
and are used to apply for various awards.
Sometimes this anxiety can last for
months. I remember having to wait
EIGHT YEARS for my card from China to
finally arrive. To get a card from Cuba, I
had to use a friend in Europe to send it,
because it appears mail between Cuba
and the USA never gets delivered. Some
cards never come. I have been told that
getting a card from EU6AF in Belarus will
probably be impossible.

DXing is the general strain of this
disease. Many people have had terminal
cases of it. Just last summer, George
Wise, W7MB was at my house and he is
one of three people at the top of the
"DXCC Honor Role" list. The Honor Roll
is reserved for people who have worked
the most countries, and George was at
the top of the list longer than I can
remember. George passed away recently
and we all miss him. Being on this list
generally requires a lifetime of effort (at
least until packet was introduced – a
computer network that allows you to
share information with others concerning
where and when needed countries are).

Radio hams have many different bands
that they can use. Each of these bands
have different characteristics. Some are
nighttime bands, and others are only alive
during the daytime. Some of the bands
provide worldwide communication and
others are limited to the local area (except
under rare conditions). Some bands have
antennas the size of you arm, and others

require acres of room to have an efficient antenna.

Most hams who are trying to collect countries use bands between 7 and 30 megahertz, on bands known as 40, 30, 20, 17, 15, 12 and 10 meters. Some stray down to 80 meters (3.5 megahertz), but that is rare as the antennas are fairly large, there is lots of noise, and not many DX stations show up on this band. However, the "TopBand" or 160 meters, is even more of a challenge. This band, located at 1.8 megahertz (or 1800 kilohertz) is just above the AM broadcast band and has similar propagation characteristics as the top part of it. Listen between 1500 and 1600 kHz sometime and see what you hear. You might hear a station 1000 miles away at night, but maybe only 100 miles during the day. Yes, TopBand is a nighttime band and because of this, the activity peaks during the times of year when darkness is more prevalent (winter).

AM broadcast stations can run up to 50,000 watts. Radio hams can only run up to 1,500. You have seen the size of AM broadcast towers. They are typically a collection of 3 or 4 towers, each over 200 feet tall, sitting in a 20-acre lot. Radio hams who operate TopBand always drool when driving by one of these stations. Here is a shot of a dream TopBand location that is currently being wasted by some commercial FM station.

The infected operator will spend all of his mental energy figuring out how to put up an antenna system as similar as possible to the commercial AM station on their own property. Some of them actually succeed, but few of us have the resources. Because of this, there is a lot of experimentation with different antennas, much more so than on some of the other bands. Many TopBand operators use wires hanging in trees - which is how ham radio was supposed to be. You can see

pictures of my antenna installation at the N6TR tour.

As you can imagine, we are at a significant disadvantage compared to the average AM broadcast station. However, with enough patience and lack of sleep, we have been able to work around the world on TopBand. I am very proud of my country total on TopBand (now over 130). I have worked over 30 different countries in Europe and my furthest contacts are with South Africa (over 10,000 miles as the radio wave travels) and Perth, Australia. Contacts with Europe are more difficult because of the earth's magnetic field. Radio waves from Oregon to Europe travel pretty close to the magnetic north pole. Energy from the sun affects the Van Allen belt, which has a significant affect on TopBand signals. If you can see the Northern Lights, my radio is turned off, and I am actually spending time with my family. If you look at this page, you can see a plot of the auroral activity from satellite data. I like the graph to have only light yellow.

Since the number of people who can put up an antenna for topband is limited, there is a feeling of fraternity among the people who you talk to. This was very strong 20 years ago, and has been diluted only a little with increased activity. You can sample the flavor of the band by reading some of the recent posts made to the topband mail reflector. This is where we boast to each other about what things were worked the night before.

Perhaps I can best describe how you get this disease by explaining how I caught it. It was back in 1972. I was 18 years old and had been a ham for almost 5 years. There was a contest coming up (an event where you try to talk to as many people as you can in a weekend), and it was a 160-meter contest. I had no transmitter for this band, but I did have a receiver. I borrowed a "transmitter" from a friend (a

Messenger Signal Shifter), not much of one, but it did run 5 watts (about enough to light up a flashlight). The contest started on Friday and I was able to work six states with it the first night: Arizona, California, Oregon, Washington, Utah and Idaho. I was operating in Southern California at the time.

The next day was spent trying to improve the antenna system (more wires) and the transmitter (modify my 80 meter transmitter to be an amplifier). With my improved signal, I was able to work Kentucky!! The callsign of the station I worked was K4GSU, who is now N4AR, and I hear him on TopBand almost every night 25 years later. He obviously has a bad case as well.

More improvements were made, and I finally worked all states from my parent's suburban lot in Southern California. My antenna wire was made out of invisible 30-gauge wire and was strung across the street to a telephone pole (bet you didn't know about that one dad).

A few years later, a friend of mine (Marty Woll, WB6VZI/N6VI) and I, went to my parent's mountain cabin for some 160 meter contests. We strung antennas at the top of the 100-foot trees and were able to work Japan! One of the callsigns we worked was JA3ONB - who I actually worked this morning on 2 January 1997. He is obviously another poor soul who has this disease.

When I moved to Oregon, I finally was able to put up a "proper" TopBand antenna. **David, AA6RX**, was visiting me and we modified one of my towers to act like an antenna for 160 meters. The results were surprising. We worked several station in Japan the next morning, and in the winter of 1985/86, I heard my first European! I can still remember hearing the letters "9AMO" which were coming from Pierre, HB9AMO in Geneva. I didn't work Pierre (until 11 years later),

but soon after I worked Jose, EA3VY (Spain), for my first European country. It was followed shortly by Dave, G3SZA (England), who now lives in Colorado. I remember one night the next October (like it was yesterday) where I worked FOUR new European countries in one evening: including Finland (OH1XX). All of these people mentioned have been heard on topband by myself in the past week or two.

Perhaps I should now explain the symptoms of the disease. They are as follows:

Desire to be on the radio at sunrise.

Desire to be on the radio at sunset.

Desire to be on the radio at all times in between Sunset and Sunrise.

Desire to struggle for months to work a single station in a new country. In extreme cases, this might go on for more than a year. A good example is Riki, 4X4NJ in Israel who tried for two years to finish off working all the states in USA.

Never being satisfied with the antenna system and constantly trying new ones.

Only comes down to see the family after working a new country (to gloat). During the rare fantastic opening, will come down after each new country and hold up fingers indicating how many new countries were worked so far. These events are equivalent to multiple orgasms, and occur about once or twice in a century.

Drinks lots of water before going to bed with the sole purpose of waking up in the wee hours of the morning to see if a new country can be found.

Has problems getting to work on time during the winter months.

Sends equipment and wire to people in unworked countries, hoping that the end result will be their QSL card on the wall.

Spends thousand of dollars going to rare countries just so other people can work it. This is a problem, as they don't get credit for the country themselves!!

If these symptoms persist for more than one sunspot cycle (every 11 years), then you should strongly suspect TopBand disease.

Currently, the only known cure for symptoms of the disease is exposure to lots of sunspots. This increases the absorption of TopBand signals in the ionosphere, and also makes the higher bands more attractive. Most people (except those with very bad cases) will spend time on the less masochistic bands when high sunspots are present.

Please understand, this only treats the symptoms, not the root cause. It is possible for the disease to go into hiding for a number of years. Earl, K6SE, had the symptoms really bad in the 1970's. Then he was not heard from for almost 15 years. I had thought about looking him up to see if he had found a cure, but I heard him just a couple of nights ago trying to work a station in Sweden.

If you know someone who has this disease, don't invite them over to any dinner parties during the months of December or January. They will constantly be looking at their watch, and using your computer to log into the packet cluster to see what stations have been reported on the band. If you know someone married to a person who has the disease, it is okay to invite them over (alone). This will be greatly appreciated by the TopBand addict and will be repaid during the summertime with equal kindness.

For further information on TopBand, subscribe to the topband mailing list. Send a subscribe message to topband-request@contesting.com. You can also view the messages posted to this support

group at http://www.contesting.com/_topband.

There are other strains of the disease which I should mention. The symptoms are equally devastating:

Moon bounce - communicating by bouncing signals off the moon.

VHF/UHF DXing - using frequencies similar to your TV.

QRP - limiting your output power so people can't hear you very well - good for sadists too.

If you are thinking of exposing yourself to TopBand, you should be aware of the risks. You might find yourself only valuing your 40-meter beam as top loading for your tower.

Thanks for listening.

Larry "Tree" Tyree N6TR

e-mail, moral support and unused tower sections to tree@contesting.com

DXCC Information

Fred Gern, K2FR

DXCC applications list available: DXCC applicants no longer need wonder whether their applications made it to ARRL HQ for processing. Now they can find out by visiting the **List of DXCC Applications Received page**, <http://www.arrl.org/awards/dxcc/appstatus.html>. The page lists pending DXCC applications by call sign.

Currently they or working **about 8 weeks behind!** I've got an application in, so ask me after I get mine back.

Ask Fudy Dudy

Fudy Dudy (askfudydudy@hotmail.com)

Dear Fudy,

*I'm not a **big** contester but I keep hearing these guys talking about it on the repeater. What do I need to get a competitive station on the air so I can join in on the fun?*

Gnu guy

Dear Gnu,

That's an easy one. All you need is:

100 ft. of tower sections - minimum

10 cu. yards of concrete - minimum

A BIG spool of guy wire

Six or eight hams with nothing to do for a couple weekends (they should be Extra class and very strong and stupid)

2 or 3 climbing belts

A BIG antenna, mono-band or tri-band

A spool or two of hardline coax

A big bag of coax connectors

A BIG rotator

A spool of rotator control wire

An EXPENSIVE radio

A fast computer with software

A roll of 12-gauge wire for low bands

A BIG lot

Nice neighbors

A nice town board

LOTS of money

LOTS of insurance

And finally, a wife who loves you or that you can divorce when this starts

Current Possible DX'peditions

Fred Gern, K2FR

FOØT - BIG operation

OHØH - lots of problems

SLØW - will look for NEW extras

UR1NAL - wait till you see the QSL card!

And these special calls will be on from the U.S.

K1K - Soccer Society

W1M - Spur of the Moment Club

W1N - Gold medal winners' convention

For Sale

Dave Wright, N2CK

FOR SALE: Amplifier, 432 MHz, 500 watts, K2RIW design, factory built ARCOS model, pair 4CX250B's, excellent with manuals and most all parts needed to build Power supply. Asking \$275.00

Ed Gable, K2MP at 392-3088 or k2mp@eznet.net.

Icom 04AT 440 mhz hand held radio, with drop in BC 35 charger and 2 Ni-Cad battery packs.

\$100, or RO **Fred, K2FR** 671-9368

Alpha Delta 40/80/160 1/4 wave sloper antenna - \$35.00 - firm. Not enough top load on my tower to get it to work.

Fred, K2FR 671-9368

Rochester DX Association Newsletter

This newsletter is a publication of the Rochester (NY) DX Association, and is published prior to each monthly meeting for the information of members and others interested in Amateur Radio DX and Contesting.

You are cordially invited to any meeting, held at 7:30 p.m. on the 3rd Tuesday of each month from September through June. We meet in the "auditorium" of the Social Services Building at 111 Westfall Road in Rochester, New York

Club officers:

President:- Mike Rundle, N1OKL
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