

Anchorage Amateur Radio Club



Anchorage Amateur Radio Club

General Meeting

Friday, January 3rd, 2014

7:00 PM

Carr-Gottstein Bldg.

Plans for Alaska Shield Exercise
Kent Petty, KL5T, Anchorage District
Emergency Coordinator (DEC)



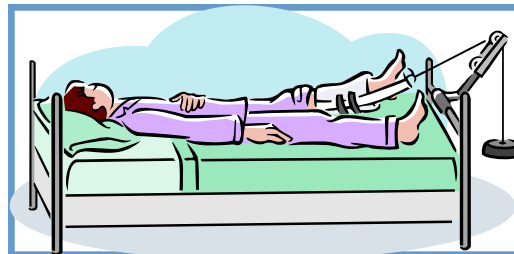
News about Susan Woods. NL7NN

Friday, December 27th, at about 11:20 on the Parks Highway in Wasilla, a pickup lost control and slid into the northbound lane right in front of Susan Woods, NL7NN. Susan was unable to avoid T-boning the pickup. Susan's door had to be removed to extract her from the wreckage. She was taken to Mat-Su Regional Hospital (907-861-6000, Rm. 205.) The reports I have is that she had a badly slashed knee (9 stitches,) and broken bones in her ankles and feet. She also has broken ribs and a broken sternum (presumably from the air bag.) Her shoulders, hips, and arms seem unbroken, but badly bruised.

It is my understanding that she will be transferred to a long-term care facility in Anchorage late this week. She is able to have visitors, but I believe that she is still a very "hurtin' unit."

73

Lara
AL2R
President, Anchorage Amateur Radio Club



Technical Musings: Repeaters

A collection for thoughts and information by John Lynn

A repeater is a system that repeats a signal usually received on one frequency and retransmitted on another. Conventional repeaters are "in band" using the same band for transmit and receive. These repeaters usually have all of the equipment in one location and use a duplexer to use the same antenna for both transmit and receive.

In the 2 Meter band, the transmit and receive frequencies are usually separated by 600 KHz or about 0.4% (0.6/146). This close spacing requires a large duplexer to separate the closely spaced TX and RX frequencies on the same antenna. By comparison a 70 cm repeater normally uses a 5 MHz split at 440 MHz which is about 1.1%. The frequency is higher (wavelength is shorter) and the split is wider so the duplexers can be smaller. The size of a duplexer is also determined by the transmitter power. The higher the transmitter power, the more isolation is needed to bring the transmitter power down to a low enough level to keep it from interfering or de-sensitizing the receiver. Symmetrical operation is desirable.

Consider a 100W repeater and a user with a 5 watt handheld. He will hear the repeater but has no clue if he is in a good enough spot to reply. I suggest it would be much better to have a lower power repeater so that the handheld user will get a slightly scratchy signal until he finds a spot where he can effectively talk back to it. Even a mobile user with low or medium power of 5 to 20 watts will realize if he is in a marginal spot. The duplexer needs fewer cavities to make the repeater work properly and can co-exist better with other radios at the same location.

Another way to create isolation between the transmitter and receiver on a repeater is to use separate antennas at the same location. For vertical polarization, the best isolation is achieved with the antennas exactly above and below each other. The same principle applies to two radios operating simplex from the same location. When I set up multiple stations for an event or exercise, I will use vertical separation to keep them from interfering with each other. Put a single or dual band collinear antenna or a dual band arrow J pole on top for the radio operating to stations farthest away or with handhelds. Then use a folded dipole farther down the mast, perhaps 10 to 20 feet for a repeater or local stations. Horizontal or diagonal separation is nearly useless. The only way is to reduce the transmitter power enough so that the receiver's selectivity is enough to discriminate against it. Most modern synthesized HAM and commercial radios have very poor selectivity so some sort of filtering may need to be added. A good example of how not to do things are the communications vehicles with multiple high power radios working into antennas mounted close together on the roof.

Another way to gain isolation is by using separate transmit and receive sites. The receiver and transmitter should be at least a mile or two apart. They need to be linked by some means, like a leased line, out-of-band radio link, or even the IRLP. I often transmit into one IRLP node and listen to another to make sure I am getting into the node effectively. I suggest that IRLP nodes are really a bunch of split site repeaters that happen to be bi-directional. To editorialize a bit, I sug-

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gest that the IRLP nodes should be coordinated in the repeater sub band just like conventional repeaters.

Another interesting variation on a repeater is the parrot. Basically it is a simplex (one way at a time) radio and a digital voice recorder with some logic. When the radio receives a transmission, it records it and when it ends, it transmits the recorded audio like a parrot. The station that transmitted gets to hear if he put a good signal into the parrot repeater and other stations hear his transmission as well. It takes some getting used to so that a reply does not double with the parrot if the stations are close enough to talk direct.

The cross band repeat feature in modern dual band radios can be used in many ways. A simple diplexer can be used to share the same dual band antenna for transmit and receive. Often this diplexer is built into the radio. The only caution is to avoid using harmonically related frequencies in the two different bands. By using dual band radios in the field, a cross band repeater can stand alone as a repeater. It can also be used to extend the range of a repeater or radio system or, by using two together, create a split site single band repeater.

An important consideration is duty cycle. A bona fide repeater is designed to be able to transmit 100% of the time which often happens in a busy event or during a net. By comparison, a mobile and portable radio might only be able to transmit 20% of the time without overheating. In a cross band repeat application 100% duty cycle is reasonable to expect. In a parrot system, the most possible is 50% which can still exceed a radio's capability. This can be mitigated by reducing the power output of the radio and adding a fan on the heat sink. It is important not to overheat the transmitter so that it will not burn up. It is also important to recognize that as a transmitter heats up it may start to produce spurious outputs and interfere with other radio systems. My strong recommendation which includes IRLP and cross band systems is to never use high power, always low or at most medium.

Finally a word about CTCSS "Continuous Tone Coded Squelch System" or PL which is what Motorola calls "Private Line". To avoid the repeater being keyed up by interference, the receiver should ALWAYS use a tone coded squelch, so that it will not key up unless the tone is there. Remember too that the FCC rules require a repeater to identify itself or to be identified somehow. Repeaters require constant monitoring and care.

John Lynn KL7CY
7013 Trafford Drive
Anchorage, AK 99504
907-337-1091

alternate home
1390 N Placita Parasol
Green Valley, AZ 85614
907-227-7583 cell

This is the net report for the Christmas Eve edition of the South Central Simplex Net on Tuesday, December 24th, 2013 starting at 8 PM AST.

As requested by the regular Net Control Station (NCS) John, KL7CY, who is on Christmas vacation in Arizona, Craig, KL4E (operating from his home QTH in Eagle River), assisted by Chris, NL7EZ (operating from Merrill Field), and Jim, KL7JD (operating from Nikiski) commenced operations with the check-in results as posted below.

Noteworthy events to report during this session included the return of Eric, N6SPP, and Bob, KL7WS, to simplex net operation. It has been quite a while since these gentlemen have checked in, so all of the participants were glad to renew their acquaintances.

We also discussed the possibility of observing sled-bottom refractive propagation occurring on Christmas eve.

However we decided that we would have to correct for substantial Doppler-induced frequency offset resulting from the speed of the sleigh based on Santa's mission requirements and the occupied surface area of planet Earth.

The net results broken down by band and mode are as follows:

Two Meter FM - 146.52 MHz: KL3JH KL7JD KL7WS N6SPP WL7XQ NL7SK NL7EZ KL1CU KL4E

Two Meter USB - 144.2 MHz: KL3JH/OW KL1CU KL7JD N6SPP WL7XQ NL7EZ NL7SK KL4E

70 Centimeter FM - 446.0 MHz: KL3JH KL7WS WL7XQ KL1CU NL7EZ KL4E

70 Centimeter USB - 432.2 MHz: KL3JH/OW KL1CU NL7EZ KL4E

Six Meter FM - 52.525 MHz: KL3JH/OW KL1CU N6SPP NL7EZ KL4E

Six Meter USB - 50.125 MHz: KL3JH/OW KL1CU N6SPP NL7EZ KL4E

One & One Quarter Meter FM - 223.5 MHz: KL3JH KL4E

Ten Meter USB - 28.4 MHz: KL3JH/OW N6SPP WL7XQ KL1CU NL7EZ KL4E/OW

33 Centimeter FM - 927.5 MHz: KL3JH/OW KL4E

23 Centimeter FM - 1294.5 MHz: KL3JH/OW KL4E

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Packet Peanut Gallery - 145.01 MHz (Eagle): NL7SK KL1CU KL4E

Packet Peanut Gallery - 147.96 MHz (Valley): NL7SK KL4E

We anticipate that John Lynn, KL7CY, should be back on duty as the primary NCS for the South Central Simplex Net on the first Tuesday of the New Year as scheduled. Thanks for your support in relaying calls from the stations that I couldn't copy due to topographical challenges (i.e. being surrounded by the Chugach Range.)

The Packet Peanut Gallery was up and running on both 145.01 MHz and 147.96 MHz under the direction of Tim, NL7SK, using both the Eagle and Valley nodes. Thanks again for your support of our newest segment on 927.5 MHz FM. Please check with TJ Morgan, KL3IT, if you are interested in getting up and running with inexpensive surplus equipment on this exciting new UHF ham band.

Thanks & 73,

Craig, KL4E - Acting NCS
South Central Simplex Net

Tim Crowley, KL2VK, is moving to sunny Arizona.

At the AARC Board meeting on December 16th, Tm Crowley, KL2VK, announced that he is moving to Arizona — and therefore would have to resign his Board position as AARC Secretary.

We certainly want to wish Tim the best in his new endeavors.



The Board appointed Mark Sabel, WDF6BM, to the Secretary position.

This leaves us with two vacant Board positions; Activities Director and a one year board position.

Please contact Lara Baker, AL2R, President, if you are willing to serve your club.

Just for fun!!!

The Arrogance of Authority



A DEA officer stopped at a ranch in Texas, and talked with an old rancher. He told the rancher, "I need to inspect your ranch for illegally grown drugs."

The rancher said, "Okay, but don't go in that field over there.....", as he pointed out a distant location.

The DEA officer verbally exploded, saying, "Mister, I have the authority of the Federal Government with me!"

Reaching into his rear pants pocket, he removed his badge and proudly displayed it to the rancher. "See this badge?! This badge means I am allowed to go wherever I wish.... on ANY land!! No questions asked or answers given!! Have I made myself clear..... do you understand???"

The rancher nodded politely, apologized, and went about his chores.

A short time later, the old rancher heard loud screams, looked up and saw the DEA officer running for his life, being chased by the rancher's enormous Santa Gertrudis bull.....

With every step the bull was gaining ground on the officer, and it seemed likely that the officer would be gruesomely gored before he reached safety.

The man was clearly terrified.

The rancher threw down his tools, ran to the fence and yelled at the top of his lungs.....

(I just love this part)



"Your badge..... show him your *BADGE!!!*"

From your Treasurer!!!

I will no longer make reimbursements for club expenses unless I have a copy of the proper reimbursement form with all the information such as Project Number, Date of Expenditure, and Item Description on it.

This form can be found on the AARC web site (as an Excel spreadsheet)— and a hard copy is also in the Board member's books. And I will be happy to see that you get a copy.

I must have these forms in the files to back up the reimbursements.

There is a copy of this form attached to the back of this newsletter.

Thanks for your help.

Alice

ANCHORAGE AMATEUR RADIO CLUB

BOARD MEETING MINUTES

November 19, 2013

Approved Minutes



Board Members Present: Lara Baker, AL2R; Ron Keech, KL7YK; Alice Baker, KL2GD; Tim Crowley, KL2VK; Rich Gillin, AL4S; TJ Sheffield, KL7TS; TJ Tombleson, KB8JXX; Chris Conway, KL7QO; George Wilkinson, KL1JJ; Fred Erickson, KL7FE; Kent Petty, KL5T.

Visitors Present: Keith Clark, KL7MM; Mark Sabel, WD6BMJ

Board Members Present via Teleconference: Jim Wiley, KL7CC; Eric Reimer, KL2NW;

Board Members Excused: Paul Spatzek, WL7BF

Board Members Unexcused:

The Board Meeting was called to order by the President, Lara Baker, AL2R, at 7:15 pm. A quorum was established. Additions or corrections to the meeting agenda were requested.

Secretary Report: The minutes of the General Membership meeting of November 1, 2013 and of the Board meeting of October 15, 2013 were presented. Alice Baker, KL2GD moved to accept the minutes and TJ Tombleson seconded the motion. The motion passed.

Treasurer Report: Alice Baker, KL2GD, presented her report noting that nothing unusual was in the report.

Finance Committee Report: Keith Clark, KL7MM, reported that restitution was on schedule with the state. The club received a \$500 donation from the people behind the Big Wild Life Marathon.

Grant Committee Report: Lara Baker, AL2R, reported that the committee is recommending to MARA to adjust their grant request so that their project will be more useful for the future. This means that their original request must be adjusted up about 10%. The Projects Committee reviewed their request. Ron Keech, KL7YK moved to accept the request and TJ Sheffield, KL7TS, seconded the motion. The motion passed with one abstention.

Gaming Committee Report: Our annual renewal has gone into the state's process. The 4th quarter looks promising. We are good for next year.

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Projects Committee Report: Keith Clark, KL7MM, reported that Procom has 1000 feet of military grade RG-8 coax it would sell to the club for \$500. Ron Keech, KL7YK, moved to accept the offer and TJ Tombleson seconded the motion. The motion passed.

TJ Sheffield, KL7TS, stated that the computer in the front office at the clubhouse is in desperate need of an upgrade. He suggested that the club purchase an appropriate Dell computer with 2 monitors, Office Pro, and 2 live serial ports. Rich Gillin, AL4S, moved to accept the proposal and TJ Tombleson seconded the motion. The motion passed.

VE Program: Jim Wiley, KL7CC, reported that everything is fine. There is a request to consider testing in Cordova.

Trustee Report: Keith Clark, KL7MM, had nothing to report.

Membership: Fred Erikson, KL7FE, reported that there are 250 members with 225 actual licensed operators.

By-Laws: Lara Baker, AL2R, reported that a draft is with the committee. His intent is to present what the committee has at the next Board meeting. Our Rules & Procedures as well as our Policies statements need to be reviewed as well.

ARES Report: Kent Petty, KL5T, is working on updating our relationship with the SCOC.

Adjournment: The meeting adjourned at 8:08 pm.

Respectfully submitted by
Tim Crowley, KL2VK
AARC Secretary



ANCHORAGE AMATEUR RADIO CLUB

GENERAL MEETING MINUTES

December 6, 2013



The "meeting" consisted of the annual Holiday party. The food was catered by Alaska Pacific University culinary department. About 40 members attended.

Mark Sabel, WD6BM, won the ugly T-shirt contest.

There was a short business meeting during which the membership approved a grant of \$4800.00 for MARA purchase of radios.

Alice Baker, KL2GD, Editor

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People to Help You!! 2013 Officers & Board of Directors

Officers

President	Lara Baker	AL2R	president@kl7aa.net
Vice President	Ron Keech	KL7YK	vicepresident@kl7aa.net
Secretary	Mark Sabel	WD6BM	secretary@kl7aa.net
Treasurer	Alice Baker	KL2GD	treasurer@kl7aa.net
Activities	Vacant		



Three Year Board of Directors

3 Year remains	Rich Gillin	AL4S	rish@gillin.us
2 Year remains	Paul Spatzek	KL7PS	paulspatzek@gci.net
1 Year remains	Jim Wiley	KL7CC	jwiley@gci.net

One year Board of Directors

TJ Sheffield	KL7TS	kl7ts@arrl.net
Richard Tweet	KL2AZ	rtweet@ptialaska.net
TJ Tombleson	KB8JXX	kb8jxx@wl7cwe.org
George Wil- kinson	KL1JJ	gdwilkinson2@yahoo.com
Fred Erickson	KL7FE	fredferickson@gmail.com
Kent Petty	KL5T	pettyak@gmail.com
Eric Thompson	N6SPP	n6spp@arrl.net
Vacant		

Other Contacts

Trustee	Keith Clark	KL7MM	trustee@kl7aa.net
Membership	Fred Erickson	KL7FE	membership@kl7aa.net
Newsletter Editor	Alice Baker	KL2GD	editor@kl7aa.net
Web Master	Ron Keech	KL7YK	webmaster@kl7aa.net

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Repeater Changes:

Please remove **147.27 & 443.3** repeaters from your repeater list for the time being. The power to this pair of linked repeaters was turned off as scheduled on Dec 31, 2012

The local **ARES Net** is now moved to the 147.33 repeater + shift and 103.5 tone (no UHF side at this time)

VHF net info: We have the Thursday Night 8:30PM Alaska Statewide ARES Net and on Sunday evenings the Alaska Statewide Linked Radio Net now at 8:30PM, both are on IRLP reflector 907 channel zero, Echolink KL7M node 1654 and Allstar node 27597. The Anchorage IRLP repeater remains 145.15 as listed.

From Charlotte Rose McCormick

Amateur Radio (HAM) Practice Exams websites

Try them —

<http://www.hamtestonline.com>

<http://www.qrz.com/ht/>

<http://aa9pw.com/radio/>

<http://www.eham.net/exams/>

<http://hamtesting.com/>

<http://www.w8mhb.com/exam/>

<http://copaseticflows.appspot.com/hamtest>

<http://www.hamradionation.com>



Regular Committee Meetings:

By-Laws Committee: Inactive at the present time.

Finance Committee: Monday of week before Board meeting, 7:00PM at Hamshack.
Contact Keith Clark, KL7MM, trustee@KL7aa.net for info.
(Members: Chair, Keith Clark, KL7MM, and Alice Baker, KL2GD.)

Projects Committee: Tuesday of week before Board meeting, 7:00PM at HamShack.
Contact TJ Sheffield, KL7TS, kl7ts@arrl.net for info.
(Members: Chair, TJ Sheffield, KL7TS, Rich Gillin, AI4S, and George Wilkinson, KL1JJ)

VEC Testing: Testing on 1st Tuesday and 2nd Saturday each month.
Contact Jim Wiley, KL7CC, jwiley@gci.net for info.

VHF: As needed (usually with a repeater in trouble and needing "aid").
Contact Doug Dickinson, KL7IKX, kl7ikx@yahoo.com.

Who Do I Contact to Join AARC?

Fred Erickson KL7FE
12531 Alpine Dr
Anchorage, AK 99516-3121
E-mail: membership@kl7aa.net
Phone Number: 345-2181
Annual Dues are \$12 (prorated as appropriate)
Additional Member in same household
is \$6.
Full Time Student is no charge.



Have you considered a Life Membership?

Life	\$250.00
Senior >65	\$200.00
>70	\$150.00
>75	\$100.00
>80	\$50.00
>85	\$1.00

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For Sale



If you have equipment that you want to have listed for sale, please notify the editor at editor@KL7AA.net before the 20th of the month. Thanks for your help.

Items advertised will have a "date of first appearance" added — and they will be deleted after two months appearance on the newsletter unless we are otherwise notified.

Al Jones, W9JIZ, Ham Equipment for Sale:

Contact Dick Grady AC7EL Home: (775) 751-5242
Cell: (775) 513-4388

December 2013

If you would like any of this gear, I can backhaul it from Pahrump, Nevada to Alaska on December 6th at no charge. Just settle up with me in person or get in touch with Dick, AC7EL, to make payment via his contact information. By the way, Dick is the head of the VEC program in that part of the world and is very responsible to deal with.

Craig Bledsoe, KL4E

<u>Item</u>	<u>Asking Price</u>
Kenwood PS30, 15 Amp Power Supply For TS450S HF Xcvr	\$80
Kenwood TS450S HF Transceiver	\$250
Kenwood 130 SE HF Transceiver	\$150
Alinco DM330MV 5-15 Volt, 30 Amp Power Supply	\$100
Alinco VHF FM Model DR135 Mk III 2 Meter Transceiver	\$100
Heathkit Model HM-11 Reflected Power Meter	\$10
Heathkit Model HD-19 Hybrid Phone Patch	\$30
Yaesu Model FT225RD 2-Meter Transceiver, Stuck In Transmit Mode, needs a relay replaced	\$150
TMC GPR90 Communications Receiver 540KC TO 31.50MHZ GENERAL COVERAGE RECEIVER. MODES OF OPERATION AM/CW/MCW/SSB.	\$1,000
Unident Bearcat Scanner	
Icom IC 2AT 2 Meter Handi Talkie with hand mike	\$20
MFJ Model 986 Roller Differential Tuner	\$200
Micronta 3 Range SWR Tester/Meter	\$20
Comet GP-9 Antenna, Dual Band, 2 meter / 70 CM	\$75
Two (2) Astatic Model D-104 Silver Eagle (?) Desk Microphones	\$125
W2DU 1:1 Balun for HF Dipole	\$20
Magmount Antenna S30400 27.5" high	\$20
Maldol HMC-6S 20/15/10/6/2M/70cm mobile antenna	\$80
Maldol HMC-7C 7 MHz/ 40 Meter coil for HMC-6S	\$20
Realistic TRC-415 CB Xcvr	\$30
Kenwood MC-60 Desk Microphone	\$80
Loud Speaker Motorola TSN6000A-1	\$25
Kenwood MC-43S Hand Microphone	\$35
Kenwood AT-50 Auto Antenna Tuner	\$130
Kenwood TS-50 HF Xcvr, with mount for transmission hump	\$300
Mobile Vertical, Marked "40", (40 Meters?)	\$50
Hustler Vertical Antenna RM-20	\$15
Vertical Whip Antenna, no baase, 48" high	\$10



Forwarded by Tom Rutigliano, NL7TZ

Amateur Radio Equipment for Sale KL7GID - Gene Mockerman Estate

If interested in any item(s) please contact Larry Plessinger, AL7LW, Nikiski, AK
I will Email photos of individual item(s) upon request.

Prices listed are estimates of current value and many are negotiable.

Email - larry@acsalaska.net Phone 776-5569

HF TRANSCEIVERS

YAESU – FT-990 – DC version with built in auto-tuner and matching
SP-6 remote speaker, phone patch and SWR meter, microphone & manual.
\$600 OBO

ICOM – IC-720A with aluminum carrying/shipping case, microphone and manual.
Minor scratches on top of radio. \$300 OBO

KENWOOD - TS-430S with matching AT-250 Automatic Antenna Tuner and PS-430 Power Supply,
microphone and manuals. Appears to have had considerable use. \$400 OBO

ATLAS 210X with Atlas speaker console and power supply.
microphone and manual. - \$200 OBO

VHF TRANSCEIVERS

YAESU – FT-2500M – With microphone and manual
Like new condition - \$150

YAESU – FT-2400M – With microphone, manual and original box.
Needs display backlights replaced. - \$100

ADI – AR-146 – Mobile radio with microphone and manual
Appears to have had very little use. - \$75

ICOM – IC-2000 – Mobile radio with microphone and downloaded manual.
Appears to be in good used condition - \$50 OBO

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ICOM – IC-28H – radio with microphone but no manual.
Appears to be in good but well used condition. - \$40 OBO

ICOM – IC-2AT - HANDHELD, with leather case & manual
Evidence of much use, pretty rough condition - \$10 OBO

POWER SUPPLIES

ASTRON – RS-35M - \$100

ASTRON – RS-20A – \$75

ASTRON – RS-20A - \$75

GENAVE – PS1-10, 12 VDC – 6 AMPS - \$20

GENERAL INSTRUMENT – 2000 PS, 24 VDC, 4 AMPS
New condition – Apparently for an antenna rotator - \$20

RF AMPLIFIERS

COLLINS – 30L1, RF Linear Amplifier (4 – 811A) with manual
Appears to be in good condition - \$600

YAESU – FL-2100, RF Linear Amplifier (2 – 572B) with manual
Good condition - \$350

PALOMAR – TX-100, 3 TO 30 MHz, Broadband, solid-state, Bi-Linear RF Amplifier. Appears to be
in good condition – \$50

ANTENNA TUNERS

JOHNSON “MATCHBOX” This is one of the old classic balanced feedline tuners. This is the small
version that is rated for 250 watts AM, but will handle much more power on SSB.
\$75 OBO

KENWOOD AT-230 ANTENNA TUNER. Nice tuner - \$100 OBO

KEYS & KEYERS

VIBROPLEX BUG – Very nice all bright chrome bug with red touch pads. Comes with original
heavy duty carry case. \$100

VIBROPLEX BUG – Very nice chrome bug with black base. This is the “red bug” version. \$100

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T. R. MC ELROY BUG/STRAIGHT KEY COMBO – This is an antique all stainless steel key that has both a bug and straight key on the same base. \$100

MFJ 422-B – PACESETTER KEYER - The Pacesetter is an MFJ electronic keyer mounted on a "BENCHER" iambic paddle. Keyer could be easily removed if you want only the Bencher. Good condition. \$100

ACE SYSTEMS – OPTO KEYER - \$20 OBO

ANTENNAS - HF

KENWOOD MA-5 - This is a five band mobile antenna system. It is a helical antenna much like Hamsticks except it uses the same helical wound base for all bands. Rated for 200 watts. Looks nice and I don't think it was ever used. \$150 OBO

HUSTLER MOBILE ANTENNA PACKAGE DEAL – Includes four (4) stainless steel, fold-over mast, ten (10) HF loading coils 75 thru 10 meters and numerous stingers. \$150 OBO

MASTER MOBILE ANTENNA - This is a mobile antenna from the 1950's. Includes a 3 ft. SS base section, 5ft. SS top section and 75 meter loading coil. Nearly new condition. \$50

GAP VERTICAL (PARTS) This GAP vertical was on the air at Big Lake for many years but time and weather have damaged some of the insulators so it is listed as "parts." Located at Big Lake. Make offer

ANTENNAS – VHF

HUSTLER CG-144 - This is a Hustler stainless steel mast with a two-meter band loading coil. Could be easily mounted on a vehicle mount but presently is mounted on one of the heavy-duty- three-magnet, magnetic mounts. \$50 OBO

LARSEN NMO-150 MOBILE VHF ANTENNA –NEW - \$25

LARSEN NMO-150 MOBILE VHF ANTENNA –NEW - \$25

ISO POLE VHF VERTICAL – Condition unknown. This antenna is still on tower at Big Lake. Make offer.

MISCELLANEOUS

REMOTE ANTENNA SELECTOR – YAESU FAS-1-4R – New in original box. \$100

DESK MICROPHONE - KENWOOD MC-60 – Complete, with manual. Appears to be in good condi-

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tion, some minor blemishes. \$60 OBO

DESK MICROPHONE – ICOM IC-SM5 - \$30 OBO

DAK SUPER DIRECTIONAL "SHOTGUN" MICROPHONE – NEW, with hard case, instructions and accessories. \$30

DESK MICROPHONE – SHURE EM28A – Glue residue on base from old GE label. Otherwise good mic – I Think this is a simply a Shure 444 with a GE label \$15

DESK MICROPHONE - ASTATIC D-104 - Chrome with gray base – Good condition except for very minor scratches on base \$20

SWR METER – HEATHKIT HM-2140 – Complete, but could use some cleaning, no manual - \$50 OBO

HF RECEIVE PREAMPLIFIER – AMECO PT-3 – With instruction sheet and wall-wart. \$25 OBO

DIGITAL FREQUENCY COUNTER – HEATHKIT IM-2420 – With original Heathkit manual, both in good condition. \$75 OBO

ANTENNA ANALYZER - MFJ 249 – Nice analyzer, like new condition, original box, wall-wart, manual. \$150

ANTENNA SWITCH - B & W Model 59 This is one of the common five-position round B & W switches. \$15

ANTENNA SWITCH - B & W – Model 376 This is another of the common five-position round B & W switches. \$15

AMPROBE CLAMP METER with leather case. Measures AC Amps from 1 amp to 1000 amps in five ranges and AC Volts from 5 volts to 500 volts in three ranges. \$20 OBO

DUMMY LOAD - ELECTO IMPULSE LABS – Part #109C3030 This is a small oil-filled dummy load. There is no ratings label but is in good condition and I'm confident it is 50 ohms, will handle a couple hundred watts for short periods and probably work into the UHF range. \$25

DUMMY LOAD - HEATHKIT CANTENNA - This is one of the old classic oil-filled dummy loads by Heathkit. There is some oil in bottom of plastic bucket so the Heathkit "paint can" may be leaking. \$10

TNC/MIC SWITCH - MFJ 1272M – "NEW" with manual \$20

TNC/MIC SWITCH - MFJ – 1272M - like new– \$15

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RF SIGNAL GENERATOR - HEATHKIT 1G-102 - Manual included but no test leads. \$20

WATTMETER - BIRD 43 - This is one of the classic Bird 43 wattmeters. Appears to be in good condition and includes NINE, that's right, NINE (9) Bird slugs and original manual. A bargain at \$300

SSB/CW/AM FILTER - AUTECH QF-1A – with instruction sheet \$25 OBO

MICROPHONE MIXER - SONY MX-300 \$20 OBO

ANTENNA ROTATOR – HYGAIN TAIL-TWISTER with control and manual. \$150 OBO

LOW PASS FILTER - B & W – MODEL 425 - \$10

LOW PASS FILTER - NYE VIKING – MODEL 020-001 - \$10

ANTENNA TOWER - AB-105 - This is a seventy or eighty foot tower, still standing at Big Lake. AB-105 is the GI super strong galvanized tower. This tower is in good condition. Buyer is responsible for removal. \$200

ANTENNA TOWER, HF BEAM & ROTATOR - This is a fifty or sixty foot tower, still standing at Big Lake. It is light-weight tower similar to Rohn 25. This tower is in generally good condition except for the bottom section which is freeze damaged. Included is a TRI-BAND BEAM ANTENNA (probably a TA-33), a TWO-METER BEAM and a CDE ROTATOR & CONTROL. Buyer is responsible for removal. NOTICE: Since the bottom tower section is freeze-damaged, and guy cables are questionable, temporary bottom leg reinforcement (angle-iron and U-bolts) and temporary guy ropes must be added for safe antenna and tower removal. Package deal \$400 OBO

IMPORTANT NOTES:

Due to the quantity of items, my inspections have been brief. Therefore, if you purchase items and after inspection or testing you find that my description was inaccurate, please contact me and we will renegotiate so as to achieve a "win-win" transaction.

If you believe the price of any item is too high (or low), please contact me and I'll reconsider.

Most of this equipment is presently located at my home near Nikiski. Most items can be easily mailed (at your expense) and delivery arrangements made for larger items.

One hundred percent of the proceeds from the sale of this equipment go to Alice Mockerman, WL7CAD



Upcoming Events



Plan ahead:

The "Community Service" event season is over until May, 2014.



THE AARC ANTENNA

Anchorage Amateur Radio Club
 PO BOX 101987
 Anchorage, AK 9510-1987
www.KL7AA.net



ARES DISTRICT 7 & 5
 KL7AA & KL7JFU
www.aresalaska.org

January 2014

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3 AARC General Mtg 7:00PM	4
5	6	7 VE Testing	8	9	10	11 VE Testing
12	13 Finance Com. 7:00	14 Projects Com. 7PM EARS Genl Mtg	15	16	17	18
19	20	21 AARC Board Meeting 7 PM	22 MARA Board Meeting 7 PM	23	24	25
26	27	28	29	30	31 Mara Meeting 7:00 PM	

ARES NETS:

1st Thursday: HT / Portable
 2nd Thursday: Mobile Madness
 3rd Thursday: RED CROSS
 4th Thursday: Emergency Power

ARES Net: Thursday Nights 8:00 PM
 147.33+ PL:103.5
 (no UHF at this time)

MONTHLY EVENTS

1st Friday each month: AARC general meeting - 7:00 PM in the Carr-Gottstein Building, on the APU Campus. Talk in will be on 147.33+ repeater.

1st Tuesday each month (except for holidays):

VE License Exam 6:30 PM, at the Hope Cottage offices, 540 W International. Bring photo ID, copy of license (if any) and any certificates of completion. Contact: Jim Wiley, KL7CC 688-0660.

1st Thursday each month: Moosehorn Amateur Radio Club General meeting - 7:00 PM
Location changes monthly so call on 146.88-repeater for info. Moosehorn ARC also holds a weekly luncheon every Thursday, locations and times change — contact George Van Lone, KL7AN: donnav@acsalaska.net

2nd Saturday each month: PARKA (Polar Amateur Radio Klub of Alaska) Meeting at 11:00 AM. Polar Amateur Radio Klub of Alaska. All amateurs welcome. Denny's on Denali Street in Anchorage. Some business is discussed. Originally established as an all woman organization, membership now includes spouses or significant others. Talk in on 147.30+.

2nd Saturday each month (except for holidays):

VE License Exams at 2:00 PM. at Hope Cottage 540 W. International. Be sure to bring photo ID, copy of license (if any) and any certificates of completion. Contact: Jim Wiley, KL7CC 688-0660.

3rd Tuesday each month: AARC Board Meeting at 7:00 PM at Hope Cottage 540 W. International. All hams are invited and encouraged to attend.

2nd Tuesday of each month: EARS general meeting at 5:00 PM. EARS meetings are held at the EARS shack location. Contact info - Doug Myers, KL1DJ or Ron Keech, KL7YK for information. EARS: 552-2664 (recording); Talk in on 146.67-. Email: club@KL7air.us or kl7yk@arrl.net

4th Saturday of each month: Valley VE Testing at 7:00 PM. Sessions will be held at Fire Station 61, at 7 pm on the fourth Saturday of each month unless it is a major holiday weekend. Contact Ken Slauson, KL7VE, Ken.Slauson@gmail.com or 907-376-8698.

The last Friday each month: MARA meeting at 7:00 PM, Wasilla Fire Station 61. Talk-in help for the meeting can be acquired on the 146.850 repeater. Further details can be found by contacting Don Bush, KL7JFT, dbush@gci.net.

Every Monday at 11:00 AM: Meeting of interested Amateur Radio Operators — and lunch at Denny's on Denali. Many code and HF operators attend this function. Come talk radio with these fine folks. For information, contact Kathy O'Keefe, KL7KO, kokalaska@gmail.com

Every Saturday at 7:00 AM: Meeting of a group of Amateur Radio Operators at Denny's on Denali for breakfast. Topics? Radio, photography, and upcoming events For information, contact Kathy O'Keefe, KL7KO, kokalaska@gmail.com

THE AARC ANTENNA

AARC web page & Email contact addresses:

Homepage: <http://www.KL7AA.net/>

Webmaster: [webmaster at kl7aa.net](mailto:webmaster@kl7aa.net)

Membership: [membership at kl7aa.net](mailto:membership@kl7aa.net)

Newsletter: [editor at kl7aa.net](mailto:editor@kl7aa.net)

Internet Links, the favorites from our readers:

AARC <http://www.KL7AA.net>

SCRC <http://www.KL7G.org>

EARS <http://www.kl7air.us>

MARA <http://www.kl7jfu.com>

Moose Horn ARC <http://www.moosehornarc.com>

PARKA <http://www.parka-kl7ion.com>

ARES <http://www.aresalaska.org>

Practice Exams : <http://www.AA9PW.com>

Fairbanks AARC: <http://www.kl7kc.com/>

ALASKA MARS: <http://www.akmars.org>

Alaska VHF-Up Group: <http://www.gsl.net/ak-vhf/>

Yukon Amateur Radio Association: <http://www.yara.ca/>

Links for Propagation: <http://www.harp.alaska.edu/>

ORP and Homebrew Links : <http://www.AL7FS.us>

Solar Terrestrial Activity: <http://www.spaceweather.com>

<http://www.swpc.noaa.gov/>

ARRL <http://www.arrl.org/>

Propagation Report Recording 566-1819

Please let us know if there are other clubs pages or good starting points that should appear here.

Report dead links or bad info to editor@kl7aa.net

HF RMS's

- Anchorage VHF ARES RMS WL7CVG- 10 144.9 (Elmendorf Moraine)
- Anchorage HF ARES RMS WL7CVG (multi-band scanning see WWW.WINLINK.ORG for frequencies)
- Palmer (MATSU) VHF RMS KL7JFT- 10 145.19
- Fairbanks VHF RMS KL7EDK- 10 147.96
- Fairbanks HF RMS KL7EDK (multi-band scanning see WWW.WINLINK.ORG for frequencies)
- South Central Digipeater WL7CVG- 4 144.9 (Knik)

NETS in ALASKA:

The following nets are active in Alaska:

VHF

- **ARES Net:** 147.33 103.5Hz - Thursdays at 8:00 PM local
- **No Name Net:** 146.85/.25 repeater Sundays 8:00 PM
- **South Central Simplex Net:** 146.52 FM, 144.2 USB, 446.0 FM, 432.2 USB, 223.5 FM, 927.5 FM, 1294.5 FM, 52.525 FM, 50,125 USB, 29.6 FDM, 28.4 USB, 145.01 packet (Eagle node) and 147.96 packet (Valley node).
Tuesdays 8:00 PM local
- **Alaska VHF Up Net:** 144.200 USB Saturdays 9:00 AM local
- **Statewide LINK Net:** 145.15(-) PL 123.0Hz; Sundays 8:30PM local
- **Alaska Morning Net:** 145.15(-) PL123.0Hz; Daily at 9:00 AM

HF

- **Alaska Sniper's Net:** 3.920 MHz 6:00 PM daily
- **Alaska Bush Net:** 7.093 MHz 8:00 PM daily
- **Alaska Motley Net:** 3.933 MHz 9:00 PM daily
- **ACWN (Alaska CW Net):** 3540 kHz, 7042 kHz, 14050 kHz Non-directed, CW calling and traffic watch for relaying NTS of other written traffic. AL7N monitors continuously. Receivers always on WL2K. (RMS connection available (AL7N@winlick.org))
- **Alaska Pacific Net:** 14.292 MHz 8:30 AM M-F
- **ERC HF Net:** 3.880 MHz—Sunday 8:30PM

ANNOUNCEMENT:

AL7N is the Alaska Section Traffic Manager. Ed is looking for Code operators for passing formal NTS traffic throughout Alaska on the AK CW Net. For more information please contact: AL7N@arrl.net.

THE AARC ANTENNA



Data You Can Use:

Frequency	Tone	Call Sign	Features	Area
147.18 -	88.5	ADES		Ft. Richardson
146.88 -	no tone	AL7LE	Phone patch	Kenai Soldotna
146.82-	103.5	WL7CWE	IRLP	Anchorage
146.76 -	123.0	KL3K	IRLP	Seward
146.94 -	103.5	KL7AA	Phone patch	Anchorage to Wasilla
224.94 -	no tone	KL7AA		Anchorage
444.70 +	103.5	KL7AA	Phone Patch	Anchorage
146.67 -	103.5	KL7AIR	MARS Station	Anchorage & Highway North
147.30 +	141.3	KL7ION		Very Wide Area
146.85 -	no tone	KL7JFU		Mat Valley
146.91 -	no tone	KL7JL		Homer
147.15 +	107.2	KL5E	Phone patch	Eagle River & Chugiak
147.84 -	103.5	WL7CWE		Wasilla Repeater
147.33 +	103.5	WL7CVF	Cross linked to 443.900	Very Wide Area * *
443.900 +	103.5	WL7CVF	Cross linked to 147.330	Very Wide Area * *
147.27	Powered off			
443.300	Powered off			

South Central Area Simplex Frequencies	
146.52 MHz	National Calling and Emergency frequency
147.57 MHz	DX Spotting frequency
146.49 MHz	Anchorage area simplex chat
146.43 MHz	Mat-Su Valley simplex chat
147.42 MHz	Peninsula simplex chat

WINLINK	Callsign	Frequency
Anchorage ARES RMS	WL7CVG-10	144.9
Palmer (MATSU) RMS	KL7JFT-10	145.19
FAIRBANKS RMS	KL7EDK-10	147.96
South Central Digipeater	WL7CVG-4	144.9

THE AARC ANTENNA



The Anchorage Amateur Radio Club has been an ARRL Affiliated Club for more than 50 years



Are you an ARRL Member... Life Member?

www.arrl.org/benefits

Are you a member of ARRL?

ARRL is the American Radio Relay League. This is the national organization that advocates on behalf of amateur radio operators to the FCC and the communications industry. Consider becoming a member of ARRL today. www.arrl.org

For more information about the ARRL DX Century Club Program check out: <http://www.arrl.org/awards/dxcc/>



KL7AA Mail Reflector

If you like to **stay in touch on KL7AA news** and other posts of local interest.

Step #1: First point your browser to: <http://mailman.qth.net/mailman/listinfo/kl7aa>

Step #2: On the web page you will see a section titled "Subscribing to KL7AA". Enter your e-mail address in the "Your email address" entry box.

Step #3: Pick a password for your account and enter it in the box marked "Pick a password" and then enter the same password in the box marked "Reenter password to confirm". This password will be used to change your settings on the list such as digest mode, etc.

Step #4: If you would like the e-mails in daily digest form click yes on the line marked "Would you like to receive list mail batched in a daily digest?"

Step #5: Click on the "Subscribe" button below the information that you just entered.

Step #6: Follow the directions.

THE AARC ANTENNA

ARES - Section 7, District 7 (Anchorage, ALASKA)

Mission statement:

Dedicated to amateur radio as it pertains to disaster services. The history of amateur radio operators' involvement in sending life-saving information in and out of disaster areas [and] providing help during and after earthquakes, floods, hurricanes and tornadoes. "HAM's have been there to assist local, state, and federal agencies and relief organizations such as the American Red Cross and Salvation Army." When All Else Fails, Amateur Radio.

www.ares.org

Emergency
Management
Institute



FEMA

**ARES South Central Alaska District
Contact Information Don Bush,
KL7JFT@arri.net**

<http://training.fema.gov/>

ARES NETS:

**1st Thursday: HT / Portable
2nd Thursday: Mobile Madness
3rd Thursday: RED CROSS
4th Thursday: Emergency Power**

ARES Net: Thursday Nights 8:00 PM

147.33+ PL:103.5

"Alaska ARES and the Alaska Native Medical Center have in joint effort stood up a HF Remote Messaging System (HF RMS) in Anchorage. This system provides HF Radio Email Service to the area. In an emergency this system will provide digital email capabilities if we lose the Internet. It is designed to accept connections from Amateur Operators who are using either PaLink or Airmail software and a Pactor 1-3 capable Terminal Mode Controller (TNC). If the Internet is lost to the area the RMS will forward messages to another RMS over HF Radio. Being HF Radio based, the coverage area is quite large. While it is intended for intra-Alaska use we have stations from as far away as Arizona using the HF RMS to pass email traffic to the internet on occasions.

ARES also hosts a VHF RMS which provides Radio to Email service on VHF Radio in the Anchorage area.

The WL7CVG RMS's frequency listings, etc. can be found on www.Winlink.Org . "

THE AARC ANTENNA

KL7AA HAMSHACK

The KL7AA station is available for training in HF operations. Learn from an experienced HF operator about propagation, voice and Morse code modes as well as best practices and legal operation. The station is fully integrated with a PC and soundcard to operate in many digital modes.

Take advantage of this unique benefit! Arrange a session by contacting the club trustee, Keith Clark, KL7MM, (aksunlite@aol.com) to meet at the KL7AA station at 5923 Rowan Street.

Notice: Any AARC sponsored repeater, with or without an auto-patch, will always be open to all licensed amateur radio operators in the area who are authorized to operate on those frequencies. **IRLP is not authorized on KL7AA repeaters except for special events as approved by the board and trustee.**

THE AARC ANTENNA is the monthly newsletter of the Anchorage Amateur Radio Club, published by and for its members. The entire contents of this newsletter are copyrighted 2011 by the Anchorage Amateur Radio Club.

Permission is hereby granted to any not for profit Amateur Radio Publication to reprint any portion of this newsletter provided that both the author and Anchorage Amateur Radio Club are credited.

Newsletter Submissions, Information or Corrections:

All articles from members and interested persons are very welcome. If you wish to submit any articles, jokes, cartoons, please have it typed or neatly handwritten. It can be submitted by mail, computer disk or E-mail to the newsletter editor at the address listed below. Submissions must be in the hands of the editor **no later than the 10 days prior** to the general meeting. Email: editor@kl7aa.net

Since THE AARC ANTENNA is no longer being sent out by US MAIL, we need some help from all the AARC members. We have gotten a large percentage of the e-mailed newsletters returned as undeliverable. Also we have no e-mail addresses for many of you.

Would you please e-mail "membership@KL7AA.net" with a current e-mail address and current mailing address and phone numbers (home, work, and cell — as you choose).

If you have special needs or concerns please send your comments to editor@kl7aa.net to bring to the attention of the board of AARC. Current and newsletters from years past can be found on the club website at www.KL7AA.net.

Thanks for your help in this.

THE AARC ANTENNA



Anchorage Amateur Radio Club
 PO BOX 101987
 Anchorage, AK 99510-1987

Statement No. 1

STATEMENT DATE 2013.03.01
Expense Reimbursement Report

MEMBER INFORMATION:

Name: _____
 CALL SIGN: _____
 Email: _____

ADDRESS: _____
 PHONE: _____
 LOCATION: _____

ANCHORAGE, AK 995xx

SIGNATURE _____

No.	DATE	HOW PAID	VENDOR	PURPOSE/DESCRIPTION	PROJECT NUMBER	ACCOUNT	CLASS	MEMO	TOTAL
1	2013.03.01								
2									
3									
4									
5									
6									
7									
8									
9									
10									
Sub Total									
Advances									
TOTAL									

Office Use Only

Approved _____

PAID _____

Entered _____

CHECK # _____

DATE _____

1. No. means the number of the invoice attached, i.e., the first invoice attached is No. 1, the second attached is No. 2, etc. All invoices, vouchers for which reimbursement is requested must be attached.
2. Purpose: Means the budget item, program for which expenditure occurred. It also means the specific reason for the expenditure. An entry might read "paper for newsletter" or "repair of transmitter for K7AA repeater"
3. How Paid: Means how you paid, i.e. check, credit card, cash, cash from petty cash fund, etc.
4. If there are several invoices relating to a single project, and several invoices relating to another project, use two or more reimbursement request forms.
5. Deliver or mail Reimbursement form and vouchers to Treasurer, P.O. Box 101987 Anchorage, Alaska 99510. Reimbursement will be mailed to you.

January 2014

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PURPO