

Anchorage Amateur Radio Club



**Anchorage Amateur Radio Club
General Meeting
Friday, May 3, 2013**



**7:00 PM
Carr-Gottstein Bldg.
APU campus**

Program: To Be Announced

Reports concerning the Boston Marathon:

**From MARA President Patrick Brown
Phone 907.775.4638**

April 18, 2013

It is with great sorrow of heart this evening to confirm such a cowardly act of terrorism against our nation once again. This time it was the Boston Marathon!

Officials are still sorting out the details, and the truth will be revealed in proper time. But at this time, this defining moment of real history, I wanted to express my condolences and sorrow for the losses for all those great athletes, their supporters and the support staff of personnel who chose to run toward the danger to help more than the fear of what might happen.

Terrorism is the definition of a cowardly act. As these souls began their day, their daunting task they embraced, they hugged, they said good-bye and yet with great unwavering faith they said, "I will see you at the finish line!" Some carried their weight that day and others were cut short of the finish line, and yet others could not join the celebration to total victory. We in America see more deaths each year by wild animals, ravaging weather, and even

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lightning strikes. Yet somehow this is different. And it should be! Not victims but casualties of warfare.

Our services keep the wolves at bay over there, a wise decision! I daily thank our troops for keeping us safe! I am as one of those nameless, faceless individuals of America who thanks you all especially the Solid Blue Line in this our nation for our needs and our security and safety.

Again some of the dogs of war have loosed their rabies choosing to attack the weak, the helpless, the unsuspecting. Cowards are always this way, loving the darkness rather than the light. But it is out of ashes and out of smoke and out of danger that heroes arise!

The true heroes are ordinary folks who have chosen to discipline themselves more than the fear factor or reality show pretense. To owe so much to so few for such effort and results I thank you, all the way from Alaska. God bless you and comfort your hearts and minds and mending.

What happened was an event, an incident and then reactions were installed. The key reaction I choose to focus a bit concerns communications as MARA President of our local ham radio club.

Cell phones were hopelessly inundated with usage which locked up the system and reports mentioned the government shutting it down as "Cell Phone Bombers" may be ready to strike again. The solution called upon by government and response forces was AMATEUR RADIO!

NEVER PROUDER! The Ham operators based upon training and discipline and even in harm's way rose above the swirling fog of war and did their duty - COMMUNICATE as trained.

Strategy and Logistics! How do you serve the 180+ wounded and injured, transport and provide life care and deal with the additional 22,100 or so runners still on the course?

"Stop all runners on the course."

Rerouting and providing safe haven for the remainder of runners and support personnel for a string 26 miles long was no easy task. Stopping runners incurred health risks and challenges even though they were not near the blasts. My hat goes off my head and over my heart for the support ham radio served while this situation developed, unfolded and began to wrap itself around a stout group of volunteers. May I suggest reading the two attached articles about ham radio and the Boston Marathon?

We are MARA (Mat-Su Amateur Radio Association), the local ham radio club understand that disasters strike; the big Earthquake in the 60's, wildfires and flooding. MARA supports the hobby and craft of amateur radio but also acknowledges and supports ARES, Amateur Radio Emergency Services. The generous support from our communities has enabled us to update our Communications Trailer and we thank you. We train to serve and this includes dogsled races, walk-a-thons, and other community events which allow us to practice. Some folks don't want to see a ham tower anywhere nor a cell tower or even power lines but they want all the amenities a 21st Cen-

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ture American may enjoy. Be grateful not obstinate for when the going gets tough, we get going! Boston proved this in one minute!

As President George Bush said after 9-11, love your families, hug your kids and live your lives. (Include please, thank-you, and ask for help if you need it also). I desire everyone to run their race with patience as a marathon, endure the hardship and pace yourselves to victory. There is room at the finish line for everyone to win, for us all to rejoice together.

Read the following two reports directly from the Marathon!

Forwarded by Bill Smith, W7HMY, head of RACES / ARES for Clark County (Las Vegas) Nevada

2013 Boston Marathon



Boston Marathon at moment of first explosion!

Radio Amateurs Provide Communication Support in Boston Marathon Bombings

As has happened many times in years past, over 200 Amateur Radio operators participated in communications for the Boston Marathon on Monday, April 15, 2013. Unlike prior challenging situations such as very warm weather for the runners or other weather-related

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challenges, this year's marathon will be remembered for the bombings that took place at the finish line. Despite this heinous act, professional first responders, medical volunteers from the American Red Cross that staffed the route, and Amateur Radio operators performed magnificently in the face of adversity.

"Within minutes, cell phone systems became overloaded and making phone calls and text messages was difficult. Amateur Radio operators performed communication duties under duress and performed admirably. No Amateur Radio volunteers were injured on the course in this terrible act," said Steve Schwarm, W3EVE, who is the Amateur Radio Course Communication Coordinator and associated with a consortium of clubs and groups known as Marathon Amateur Radio Communications (MARC).

"At the finish line net control, which was only 400 feet from the initial blast, we heard the explosion. I poked my head outside to confirm what I thought it was and saw the white smoke. We immediately knew what had happened and commenced a roll call of all ham operators and medical tents. State Police authorities initially ordered us to lock down and post a ham for security watch outside the net control trailer. Thankfully none of our people were hurt," said Paul Topolski, W1SEX, Amateur Radio Finish Line Coordinator.

Following the explosion and roll call, Topolski stated that they began pulling together updates and sent the information via the Massachusetts Emergency Management Agency (MEMA) Web-EOC software tool and provided updates via Amateur Radio. Shortly after sending a few updates both Boston Police and Massachusetts State Police gave the order for the tent area to be evacuated. "In my mind, the course end of things is where a lot of work needed to happen as runners eventually needed to be stopped, congregated and transported to safety and staging areas," Topolski said. "At the finish line, our job was to check on the safety of our people, provide those initial updates and evacuate per police instructions. Three of our Amateur Radio operators redeployed to the Boston Marathon Course Net Control Center."

Across the course outside of the finish line after the bombings occurred, first aid stations were consolidated to larger first aid stations to pool runners for pickup and to keep runners warm as there were enhanced tents along the route where runners could be kept warm and hydrated. At the Heartbreak Hill first aid station, amateur operators had a complete base station setup, including a computer, and were prepared to handle health and welfare traffic as required. Several shelters were set up along the route at churches and schools, and Amateur Radio operators from secured first aid stations went to those shelters, providing communications in those areas until runners were moved out of their locations.

"My role at the request of Steve, W3EVE, as event organizer before the race was to shadow the course medical tent coordinator for the Red Cross, Kandi Finch," said Rob Mace-

THE AARC ANTENNA

do, KD1CY, who is also the Eastern Massachusetts ARES Section Emergency Coordinator. "It was a challenging position but all organizers on both the Amateur Radio side and Red Cross side said things went well in coordinating during normal race conditions and particularly after the bombings."

At course net control, which was away from the bombings, ham operators controlled their nets calmly and professionally while also expressing an appropriate level of urgency. Over a dozen amateurs at the net control center pooled together to announce messages and keep status of changes along the course route as required.

Net Control Center Coordinator, Karen Brothers, K1KEB, kept in constant contact with MEMA, where Terry Stader, KA8SCP, was stationed. Stader became the MEMA 'Ops' point person at the State Emergency Operations Center as runners were transported from the shelters to other staging locations. From his location at the EOC, Stader was able to sort out the sheltering plan and reception centers for the runners, subsequent transport of runners from shelter locations and give out information on MBTA bus and train operations.

Jim Palmer, KB1KQW -- who served as a net control at the Net Control Center -- stated that nets were doubled up on operators, to allow one person to operate the radio while the other listened and logged priority calls and ambulance requests, creating a more efficient operation. "Several ambulance requests for dehydration and exhaustion were handled due to the runners needing to be stopped," Palmer said. The specific net that Palmer ran also provided a link between the marathon course and the American Red Cross in its Cambridge facility. Lou Harris, N1UEC; Frank O'Laughlin, WQ1O, and Dan Howard, K1DYO, staffed the Red Cross in Cambridge.

Many amateur operators who volunteered along the marathon route praised Net Control's support after the bombing. "Net Control did an awesome job," said course volunteer David Wihl, KB1VEG. "The workload was busiest after seven hours on the radio, and it didn't let up for another couple hours."

Several young radio amateurs from the Clay Center Amateur Radio Club also supported Net Control Operations, both as direct net control operators and runners for the operation as they have done in the past. This provided a tremendous learning opportunity for these young operators, from both an Amateur Radio perspective and an overall learning perspective.

"Despite the total lack of warning in this situation, amateurs followed a creed I've long since preached since the 9/11 terrorist attacks and the mutual aid response to those attacks: 'blessed are the flexible for they will not get bent out of shape,'" said Steve Schwarm,

THE AARC ANTENNA

W3EVE. "Amateurs on the course did what they had to do to assure their own safety and runner-safety working with the Red Cross medical people. They did an outstanding job and I was told so by Red Cross organizers as well."

From an ARES perspective, a heightened state of awareness on the Boston Marathon event is typical, but within 15 minutes of the bombings, Eastern Massachusetts ARES Assistant Section Emergency Coordinator, Carl Aveni, N1FY, issued an ARES Stand-By and requested that amateurs give availability for the next 24 hours. Within minutes, 20 amateurs offered their availability.

The ARES sub-regional command center at the Acushnet, Massachusetts EOC (under call sign WA1EMA) was utilized as a control point to obtain critical situational awareness of the rapidly changing situation, as well as to monitor resource nets per a report filed by Acushnet Emergency Management Communications Officer Ed Caron, KA1RSY; he also serves as the South Shore Massachusetts ARES District Emergency Coordinator. A total of five Amateur Radio operators were deployed to this facility. An ARES resource net was called on the 147.18 Bridgewater repeater with Byron Piette, K1YCO, as net control with 11 stations checking into the net.

"In terms of having amateurs within ARES who cannot get directly involved in the marathon, we have a process where we have them monitor in case of a situation like what occurred on Monday. That process paid off and facilitated a rapid response to our request for possible additional support," said Carl Aveni, N1FY.

Some radio amateurs who volunteered in the Boston Marathon have posted their stories online; read one such story is from Tim Carter, W3ATB, of Meredith, New Hampshire.

Reprinted with permission from Tim Carter, W3ATB.

Boston Marathon 2013 – Bombs, Carnage and Amateur Radio Operators

Posted on April 17, 2013 by: Tim Carter, W3ATB Copyright 2013 Tim Carter **All Rights Reserved**

<http://w3atb.com/66-boston-marathon-2013-bombs-carnage-and-amateur-radio-operators>

“Stop all runners on the course.”

Did I hear that correctly on my Charlie 5 frequency? Stop the Boston Marathon? You can't be serious?

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Yes, after 116 years of Mother Nature doing her best to stop this world-class running event, a terrorist attack was able to do in seconds what she couldn't do in decades.

I was a ham radio operator working the 117th Boston Marathon. It was the second year in a row for me. Fortunately for myself and my family, I was stationed eight miles away from the bombing attack. The radio communications team assigned me to work at First Aid Station 12 at the corner of Commonwealth and Chestnut Avenues near the center of Newton, Massachusetts at mile 18.3 of the race.



This is First Aid Station 12 looking east towards Chestnut Avenue. Photo Credit: Tim Carter

This is my third season of working public service events using my ham radio skills. I have to tell you that I wasn't expecting to become a thread in an historical tapestry, but I am now.

I've got the photos to prove it; I've got one of the much-sought-after yellow and blue 2013 Boston Marathon volunteer wind breakers, and an abundance of personal memories to prove I was part of the tragic historic day.

The Communications Cascade

I've been told by many seasoned ham radio operators that the Boston Marathon is the premier public service amateur radio event. It's the World Series. It's the Super Bowl. It's the World Cup. It's the Daytona and Indianapolis 500 in one. I can tell you it's as challenging a communications amateur radio event as you might ever work. Now that I've worked it two years, and that's a very short time compared to many operators who have worked it for well over twenty years, the Boston Marathon deserves those accolades.

If you like numbers and want to get your head around what's involved, consider this:

- Linear Marathon – communications spread out over 26 miles

- Nearly 150 amateur radio operators on the course and in Net Control

- Pre-marathon meeting at 7:00 a.m.

- Average time on station for ham operators – 9 hours that could stretch to 11

- Seven primary communication channels, two bus and misc backup channels

To put this in perspective, I regularly work public service events on Mt. Washington in New Hampshire. It's a harsh environment with significant radio propagation issues compounded by the concentrated number of commercial radio and television station towers at the summit. But even though running, bike and car races claw their way up the 7.2-mile sinuous mountain roadway, we typically will only have 15 – 20 ham operators on a single frequency. We have a backup frequency, but it's rarely used.

Bedlam Caused By the Bombs

The weather forecast set the stage for an epic day. Sunshine, temperatures in the mid 50's, light wind. I'm not a runner, but I can tell you I'd rather run in that than the record heat of the 2012 Boston Marathon.

During the 2012 Boston Marathon our first aid station #12 at mile 18.3 filled at least two times with runners in different stages of distress. I was told that I had the most ambulance calls of any other ham operator at last year's event. Believe me, I was looking forward to a day with light traffic in our station.

That's just what we got as the race progressed. Most of the runners had minor leg cramps

THE AARC ANTENNA

and blisters. We did have two runners that needed more extensive care. The radio traffic on our frequency was moderate to light.



Tim Carter, W3ATB in yellow gear, reporting to station supervisor Mike Tryon.
Photo Credit: Don Tryon (C) Copyright 2103 Don Tryon

But just before 3:00 p.m., the rumors started to fly. Keep in mind that the frequency I was on was a mid-course frequency. My job is to just keep my first aid station supervisor, Mike Tryon, in the loop about what's happening around us.

As Mike said to me earlier in the day, "There's nice to know and need to know. I just want you to keep me informed with Need to Know."

Well, a terrorist or two or three made sure that soon enough there would be plenty of Need-to-Know information.

The Pros in Net Control

The ground zero of the entire communications operation is an operations center called net control. A handful of ham radio operators are stationed at net control on radios tuned to specific frequencies. Each frequency covers a portion of the race course.

Think of the race course as a line of linked sausages. Each sausage is a different frequency and net of its own. I was on C5 and the finish line was C7.

Each individual amateur radio operator working at net control has a certain number of water and first-aid stations under his/her control.

The net control operator for the mid-section part of the course I was working was Andrew Maroney, W2AJM. He's an absolute pro net control operator. His messaging is concise, he's prompt with replies, and he has a mind like a steel trap.

Understand that his job is to just feed us information that's critical to us fulfilling our jobs at our assigned locations. Even if he had access to widespread facts about what was happening at ground zero at the finish line, which would be nice-to-know information for those of use farther back from the finish line.

Andrew only dispensed information and facts that the race organizers wanted us to know that was specific to our location and/or it was information to be broadcast to all ham operators. It's part of the protocol.

As best as I can remember, the first real Need-to-Know transmission from Andrew was the Stop-All-Runners message. At that point, we knew that the rest of the day was going to be anything but ordinary.

Unintended Consequences

The race officials only invite qualified runners to participate in the Boston Marathon. This helps maintain the prestige of the event, but it also ensures that 99.9 percent of the people

THE AARC ANTENNA

cross the finish line.

At the finish line, the race organizers have all of the runners' personal belongings, blankets, Mylar heat-retention capes, water, an abundance of medical support, wheelchairs, etc. The first aid stations that are spread out on the course, like the one I was working, have many of these supplies, but in limited supply. After all, past marathon records indicate we maybe will see only 50 – 100 runners in our station during the race.



Imagine the nightmare if it was raining and 40 F. Here it was sunny and 54 F, yet the runners that stopped soon got chilled.
Photo Credit: Tim Carter

But when the order was given to Stop All Runners, that decision created quite a few unintended consequences. We were very lucky at our station, because the vast majority of runners were farther down course. Just a handful of runners and walkers were approaching us after the bombs exploded in downtown Boston.

But further down the course, especially in the last mile or two, thousands of runners were still approaching the finish line. The bombs created a new set of problems:

How do the runners stay warm?

How do the runners get fed?

How do the runners get to their belongings?

How do the runners discover if their loved ones waiting at the finish are okay?

How do the runners let their loved ones know where they are?

How will thousands of runners be transported to who-knows-where?

Plus countless other questions.....

But guess what, that's where all of our training kicked into high gear.

Cell Phone Dependence

The speculation is that government officials, within minutes of the explosion, shut off the cell towers in downtown Boston. I can't confirm this. But it sounds like a good idea as bombers discovered years ago that cell phone towers can be hijacked to help them with their sinister and nefarious deeds.

Cell phones are just radios. For years bombers have used cell phones as part of the mechanism to detonate bombs. It's brilliant when you think about it. The bomber can be 100 feet away or a continent away, make a call to the phone connected to the bomb and BOOM.

What really is happening? When you call a cell phone and it rings or vibrates, an electrical energy impulse within the phone happens that causes the phone to ring or vibrate. This electrical energy can be used to ignite a bomb fuse. It's that simple. But don't try this at home.

Many runners don't carry cell phones, and they were desperately trying to use anyone's phone, including mine, to call their loved ones at the finish line.

Everyone was getting a busy signal. That could have happened because the cell networks were overloaded, or because officials turned off the cell towers.

The bottom line is there were several hundred people who were able to continue to communicate during the disaster. Police, fire and others like me who had radios were still talking.

Keep that in mind. Perhaps this will be the wakeup call to convince you to get your amateur radio license and discover what hundreds of thousands of us already know. We know how to stay connected in disasters and other situations where traditional communications systems suddenly don't work.

Youthful Enthusiasm

Working at First Aid Station 12 with me was a gifted radio operator, Noah Goldstein, KB1VWZ. Another ham operator was also with us named Shirley, but I can't recall at this time her call sign.

THE AARC ANTENNA



Noah Goldstein, KB1VWZ on the left talking with Tim Carter, W3ATB on the right.

Photo Credit: Don Tryon (C) Copyright 2013 Don Tryon

Mike Tryon, at our morning organizational meeting, requested that I stay at the First Aid station all day acting as his connection with the outside world. Noah and Shirley were assigned to the mobile medical teams.

If runners need assistance at any part on the course between our station and the next closest first aid stations either up or down the course, a two-man medical team runs to their aid. A ham radio operator goes with them in case they need to request an ambulance or additional help.

Noah is a young man, I guesstimate to be around 20 years old. He was bursting with energy and enthusiasm. It's completely understandable because he's participating in a world-class amateur radio event.

As the anxiety ballooned after the blasts, Noah became restless. Not only was he concerned about a friend at the finish line, he wanted to also ratchet up his participation as a radio operator.

Twice I had to remind him of the structure of the communications team. It was important for Noah to realize that the leaders at net control knew more than we did about what was

going on. They were counting on us to remain on location at our station. We were known assets at a given location, and if we were to be re-deployed farther down the course to help, net control would make that call, not us.

Noah got his wish. Within 90 minutes, he was told to move down the course to First Aid Station 13 that was set up just west of the Newton, MA City Hall. Within a short time, the race organizers moved many of the runners to the city hall building. This got them out of the weather and into a covered building with plenty of chairs and real toilets.

Buses were arriving bringing runners from other locations to the Newton City Hall. Noah was stationed at the City Hall building and was finally released about 6:45 p.m. He did a magnificent job all day, and there's no doubt it will be a day he never forgets.

The Temptation

Each radio operator in the field has enormous responsibilities. You could have a person's life in your hands at any time. A runner may be in desperate need of help and the station supervisor may ask you to request an ambulance with advanced life support capabilities. What does this really mean? It means you **MUST** be able to communicate. This means you probably should come to the event with two radios.

I had two radios. I could tune to two different frequencies. In fact, each of my Yaesu VX-7R radios is equipped to monitor two separate frequencies at the same time.

I knew the frequency the finish line radio operators were using. I could have brought it up on either of my radios to gather nice-to-know information at any time.

But I didn't. It would be a distraction. I'm sure I wasn't alone. My job was to keep Mike informed and listen to my net control operator in case he had a direct message for me, or an area-wide message for all operators.

After Action

I'm sure that right now the leaders of the communications team are meeting, or have scheduled a meeting, to discuss what we did right and what we did wrong. Professionally it's called an after-action report.

I can tell you from my perspective that just about everything went right. Immediately after the bomb blasts, the radio traffic intensified. It continued to ratchet up as new challenges were exposed.

THE AARC ANTENNA

But each time, the race organizers and communications team rose to meet the challenge. On my frequency, and I imagine that used for the finish line, there was never chaos. The reason was simple. Amateur radio operators that volunteer for the Boston Marathon are anything but amateurs. That moniker just means we're not paid to perform on the radio. It's illegal for us to accept compensation if we use the amateur radio bands.

I was in the company of nearly 150 professional radio operators that stayed focused, they didn't clog the frequencies with unneeded requests, and they followed established protocols set up years in advance for just this dreaded situation.

To be honest, it was a thing to behold. It's my hope that all of the communications of the day were recorded for each frequency, and that they're released one day so you can hear what I heard in my earpiece.

I heard calm, focused and concise radio requests. I heard virtually no frustration. I didn't hear any screaming. I didn't hear any frantic requests for supplies.

I'm still recovering mentally from the day. I'm very sad for those three innocent people whose lives were snuffed out by the callous act of the cowards who set down the satchels containing the bombs. My guess is that at least two people were involved, with each person casually setting down the bag and seemingly forgetting to pick it up as he/she walked away. I'm also concerned about all those injured and the collateral damage caused to all those that know the dead and injured.

I can tell you I'd go back tomorrow to work the Boston Marathon again. I'll be even more vigilant. If you're a ham radio operator, you should volunteer too. If you're not an operator, consider becoming one. You can even volunteer to do other tasks non-radio related. I can tell you with confidence that many, if not all, of us will return. The terrorists will not take control of my destiny. No, it's going to be the other way around.

There will be a new awareness about being able to communicate when cell phones don't work. I was lucky enough to be one who could communicate clearly, even with someone around the world, when tens of thousands of people couldn't.

I was lucky enough to be in a position to help many who needed help. That's why all of us ham radio operators volunteered to be in Boston along with the thousands of other Boston Marathon volunteers.

Believe me, we'll be back.

News & Notes:

MARA 2013 HAMFEST

MARA (Matanuska Amateur Radio Association)

Date: Saturday May 11

Time: 10am-4pm

Place: Wasilla American Legion Post 35

Location: Wasilla American Legion Post 35

Head West from Wasilla toward Big Lake, (W Parks Hwy)

Watch for MARA signs across from Denali Restaurant

Turn RIGHT off the Parks Hwy onto Lamont Way

Turn LEFT on Tweed Ct to the American Legion Post 35

The MARA Amateur Radio Club will host its annual 2013 Hamfest on May 11 from 11 May from 10am till 4pm, at the Wasilla American Legion Post 35.

The Hamfest is our fundraiser but it is more about communications! Come enjoy and socialize: learn about the hobby and craft of amateur radio and experience presentations on Ham Radio and even take your free license test to get your "ticket"! Tour our new MARA Communications Trailer and see how the generous support of our communities and neighbors and businesses enable us to serve with excellence during events or disasters!

Entry ticket donations are \$3 each with 1 door prize ticket

Bar-b-que food tickets donations are \$5

Vendor Tables donations are \$10.00 each. Also The MARA Country Store Table will be open. Donations of 10% from the Country Store Tables go to MARA in support our club.

Contact Don/KL7JFT at kl7jft@arrl.net to reserve a vendor table.

Speakers and event schedule:

11am-12pm K7CEX Jim Pace on ARRL

12:10-12:55pm KL4E Craig Bledsoe AMSAT

1:00-1:45pm KL3IT Takeshi Morgan D-Star

2:00-3:00pm - Ham License Testing

Note: No door prizes during license testing

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MARA Communications Trailers will be displayed including various demonstrations on APRS, Packet and Winlink systems

Setup Help and Cleanup Help needed! This MARA 2013 Hamfest is made possible by all members. This MARA Hamfest is made easier by serving one another.

Help us setup and cleanup!

See you there!

MARA President Patrick Brown

Phone 907.775.4638

Email: PBrown5@yahoo.com

The Gold Nugget Triathlon needs volunteer radio operators.

It's time once again for the Gold Nugget Women's Triathlon. This year's race takes place on May 19th at Bartlett High School. Lara Baker has appointed Shannon Methe, KL3JI, as coordinator of events. Shannon will be the initial interface with event officials and will transition that interface task to whomever is actually managing the event for the AARC. In this case, Paul Spatzek, WL7BF, and Alice Baker, KL2GD, will actually manage the Gold Nugget Triathlon. Anyone interested in volunteering to operate a radio checkpoint during the race should contact Shannon at shannon-methe@gmail.com. Shannon is also usually around the KL7AA club station on Wednesday nights.)

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.

Kenai Peninsula Hamfest

Kenai Peninsula Hamfest 2013, July 13

Location (same as last couple years): Kenai Borough Office of Emergency Mgmt, Wilson Way, Soldotna
10:00am - 4:00pm

\$5 admittance (gets you one door prize ticket)
Hourly door prize tickets \$1

Flea Market set up at 9:00am (building closed to general public)
Table is \$10 (which includes admittance for one person)

Major Prizes (three), tickets \$5; Drawing at 3:00pm Do not have to be present to win!
Program:

11:30am TBD
12:30pm TBD
1:30-3:00pm VEC exams
m repeater talk-in on 146.88 (no tone)

Possible Field Trip to KL7RA Contest Station (pending)

New hamfest webpage (will be when it is finished):
<http://www.moosehornarc.com/Hamfest2013.pdf>

Thanks,

73, Ed - KL7UW
Hamfest Chair



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Mark the dates for Field Day on your calendar.

The official Field Day event (i.e. radio contacts) begins at 10:00AM Saturday, 22 Jun 2013 and run for 24 hours (continuous) until 10:00AM on Sunday, 23 Jun 2013.

We tear down and pack up on Sunday, and hopefully everything is back in the CCV garage by 1400 HRS.

However:

We will place antenna support ropes, for wire antennas, on **Thursday evening**, 20 Jun 2013. The exact time is TBD (but probably around 6:00PM).

We will meet at the CCV garage on **Friday morning**, 21 Jun 2013. The exact time is TBD (but probably around 8:30AM). There will be coffee and doughnuts (vitamin D!). This means people who have a job will need to take the day off.

We will leave the CCV garage Friday morning, hopefully before 11:00AM, and travel to Kincaid Park to set up all day on Friday.

Thanks very much,

TJ Sheffield, KL7TS

If you suspect that you might be receiving **radio-frequency interference**, especially on the 2-meter band, from the cable TV system, please contact Jim Wiley, an ARRL Technical Specialist first. He can be reached at 688-0660, or via email at: rfi@kl7aa.net Jim may then suggest you contact GCI directly.

GCI's contact person is: Rick Henderson, GCI Risk Management
(907) 868-8585, email: rhenderson@gci.com



THE AARC ANTENNA



ANCHORAGE AMATEUR RADIO CLUB

BOARD MEETING MINUTES

March 19, 2013

Approved Minutes



Board Members Present: Lara Baker, AL2R; Ron Keech, KL7YK; Alice Baker, KL2GD; Tim Crowley, KL2VK; Paul Spatzek, WL7BF; Rich Gillin, AL4S; TJ Sheffield, KL7TS; Eric Reimer, KL2NW; TJ Tombleson, KL8JXX; Chris Conway, KL7QO

Visitors Present: Fred Erickson, KL7FE

Board Members Present via Teleconference: Jim Wiley, KL7CC

Board Members Excused: Shannon Methe, KL3JI; Eric Thompson, N6SPP

Board Members Unexcused: Chris Ferguson, KL3LU; Tom Ireland, KL1U

The Board Meeting was called to order by the President, Lara Baker, AL2R, at 7:00 pm. A quorum was established. Additions or corrections to the meeting agenda were requested. Added: Untabing "By-Laws" and getting into the Hope Community Resources.

Reports:

Secretary: Tim Crowley, KL2VK: Corrections were noted in the February Board Meeting Minutes. Paul Spatzek, WL7BF, made a motion to accept the minutes of the December Board Meeting as corrected and those of the General Membership Meeting of March. Eric Reimer, KL2NW, seconded the motion. The motion passed unanimously.

Treasurer: Alice Baker, KL2GD, presented a "Monthly Payments" reports to inform the Board of the scope of regular monthly payments. It was suggested that totals and running totals be added to the report. A member asked about the possibility of showing which sources of income (e.g., gaming and restaurant) are used for the various monthly payments.

Finance Committee: Keith Clark, KL7MM was unable to attend due to travel. He had submitted a report to the Board earlier.

Grants Committee: Lara Baker, AL2R, passed out a report from Hope Cottage Resources showing we awarded a grant of \$2,250 (in 2009) and stated that we have an endowment fund at APU of approximately \$280,000. We awarded each organization \$7,000 in 2011, but nothing in 2012. We will wait awhile before issuing grants for 2013.

THE AARC ANTENNA

Gaming: Lara Baker, AL2R, stated that the club's reports to the state were submitted early and that the club is up to date with the state. However, there is a discrepancy with the accountant's report so we have not filed the end-of-year report with the state and have received a formal extension.

Projects Committee: TJ Sheffield, KL7TS, reported that we have about \$5,400 more than Boniface Bingo reported. Last year's income is projected to be at a record low. He added that the club needs to spend the rest of the restitution money and the \$5,400 before the end of the year. Furthermore, TJ added that we are under our target for spending but looking good for this year. TJ then explained that our Balance Sheet has been irregular for about 15 years. He explained what needs to be done.

VE Program: Jim Wiley, KL7CC, reported that the program is fine with about 6 exams a month. He has heard nothing about the matter with the FCC. There will be no need for a trip to Gettysburg this year.

Trustee: No report because Keith Clark, KL7MM, is traveling Outside.

Membership: Fred Erickson, KL7FE, reported that membership is slow. He received only one check in the last month. We have 140 voting members currently. When asked about the status of giving free one-year memberships to new licensees, Jim Wiley, KL7CC, stated that he now includes a letter for free newsletters (not memberships) for the Anchorage people.

By-Laws: Lara Baker, AL2R, handed out a list of questions for the board members to consider at the April board meeting. Lara will be meeting with TJ Sheffield, KL7TS and Paul Spatzek, WL7BF, before the April meeting. Lara thanked Jim Wiley, Jim Larsen, and Paul Spatzek for the work they have done in the past.

ARES: No report.

Old Business: None

New Business

Board Vacancies: Chris Ferguson, KL3LU, and Tom Ireland, KL1U, have three consecutive unexcused absences since January 1, 2013. Consequently, the secretary has been authorized to contact these members about their intention to continue on the Board. Jim Larsen, AL7FS, and Fred Erickson, KL7FE, have expressed interest to be members of the Board. If Ferguson and/or Ireland remove themselves from the Board, the Board will appoint new member(s) and announce the action to the general membership.

Program for April Meeting: Sam Albanese of NOAA.

THE AARC ANTENNA

Gold Nugget Triathlon: Alice Baker, KL2GD, and Paul Spatzek, WL7BF, have volunteered to coordinate our efforts. It is hoped that additional help will come from last year's leadership.

Approvals for KL7AA: No report because Keith Clark, KL7MM, is traveling.

Hope Community Resources building: TJ Sheffield, KL7TS, suggested that instead of pounding on the door to get into the building for board meetings, members could use their radios to get access. He suggested using UHF, since it penetrates buildings. After discussion, it was decided to use 446.00 MHz (simplex).

Final Comments: Rich Gillin, AL4S, will be writing the specs for the device needed by Ron Keech, KL7YK for the RMS. Jim Wiley, KL7CC, asked if Lara Baker, AL2R, has contacted Chugach Electric about using their site for a repeater. Contact has not yet been made.

Adjournment: Motion was made to adjourn the meeting by Paul Spatzek, WL7BF, and seconded by Eric Reimer, KL2NW. The meeting was adjourned at 7:53 pm.

Respectfully submitted by
Tim Crowley, KL2VK
AARC Secretary



ANCHORAGE AMATEUR RADIO CLUB

GENERAL MEETING MINUTES

April 5, 2013

Unapproved Minutes



Lara Baker, AL2R, President, opened the meeting at 7:02 pm.

Twenty-five members and guests were present. Introductions were made.

Announcements:

Members were reminded that our newsletter is available on the club's website: KL2AA.net.

Two Board members, Chris Ferguson, KL3LU and Tom Ireland, KL3IJ, have had three consecutive and unexcused board meetings. Tom offered his resignation, since he will

THE AARC ANTENNA

be out of the state for the rest of the year. Consequently, the Board has appointed two replacements, Fred Erickson, KL7FE, and Jim Larson, AL7FS to fill out the terms upon approval of the general membership. It was moved and seconded and unanimously approved to accept the Board's nominations.

Allen Abbot, KL1QCE, needs 3 more volunteers (and a bicycle) for the upcoming MS Walk at Lake Hood on May 11. A portable repeater will be tested and used for this event. Allen can be reached at 947-0827.

Presentation:

Dave Snider of NOAA and the Alaska Weather TV Program Leader of the Anchorage Forecast Office, spoke about Alaska weather patterns and clouds. He also asked members for input about how NOAA and amateur radio operators can work together better. Dave can be reached at David.Snider@noaa.gov. The Anchorage Alaska Forecast Office has a website: <http://pafc.arh.noaa.gov/tvwx.php>.

Door prizes:

Because Shannon Methe, KL3JI, was unable to attend the meeting, there were no door prizes available.

Additional Announcements:

Lara Baker, AL2R, will be receiving a request for someone to give a demonstration about amateur radio to a group of home-schooled special needs children.

Adjournment

Lara Baker, AL2R, announced the meeting to be adjourned at 8:03pm.

Respectfully Submitted

Tim Crowley, KL2VK
Secretary
Anchorage Amateur Radio Club



THE AARC ANTENNA

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	Tim Crowley	KL2VK	secretary@kl7aa.net
Treasurer	Alice Baker	KL2GD	treasurer@kl7aa.net
Activities	Shannon Methe	KL3JI	shannonmethe@gmail.com



Three Year Board of Directors

3 Year remains	Paul Spatzek	WL7BF	paulspatzek@gci.net
2 Year remains	Jim Wiley	KL7CC	jwiley@gci.net
1 Year remains	Rich Gillin	AL4S	rich@gillin.us

One year Board of Directors

TJ Sheffield	KL7TS	kl7ts@arrl.net
Eric Reimer	KL2NW	ehazbreim@yahoo.com
TJ Tombleson	KB8JXX	kb8jxx@wl7cwe.org
Chris Conway	KL7QO	kl7qo@gmail.com
George Wilkinson	KL1JJ	gdwilkinson2@yahoo.com
Fred Erickson	KL7FE	fredferickson@gmail.com
Jim Larsen	AL7FS	jimlarsen2002@alaska.net
Eric Thompson	N6SPP	n6spp@arrl.net

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

Regular Committee Meetings:

By-Laws Committee: Inactive at the present time.

Finance Committee: Monday of week before Board meeting, 7:00PM at Hamshack.
Monday of week after Board meeting, 7:00PM at Hamshack.
Contact Keith Clark, KL7MM, trustee@KL7aa.net for info.

Projects Committee: Tuesday of week before Board meeting, 7:00PM at HamShack.
Tuesday of week after Board meeting, 7:00PM at Hamshack.
Contact TJ Sheffield, KL7TS, kl7ts@arrl.net for info.

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

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.





Upcoming Events



Plan ahead:

The Event (marathons, etc.) season is here.

Walk/Ride for Hope

Westchester Lagoon Area, May 4th, 2013
Contact Lara Baker, AL2R

Walk for MS

Lake Hood, May 11th, 2013
Contact Lara Baker, AL2R to volunteer

Gold Nugget Triathlon: May 19, 2013

Bartlett High School
Contact Paul Spatzek, WL7BF, Alice Baker, KL2GD,
or Shannon Methe, KL3JI, to volunteer.

Mayor's Marathon: June 22, 2013

Bartlett High School & West High School

Big Wild Life Runs: August 17, 2013

Downtown
Contact Keith Clark, KL7MM, to volunteer.

MS-150

Alyeska to Hope, Sept. 7th & 8th, 2013
Contact Allen Abbott, KB1QCE, to volunteer.

THE AARC ANTENNA

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



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

May 2013

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3 AARC General Mtg 7:00PM	4 Bike/ Walk for Hope
5	6	7	8	9	10	11 Walk for MS
12	13 Finance Com. 7PM	14 Projects Com. 7PM Ears Genl. Mtg	15	16	17	18
19 Gold Nugget Triathlon	20	21 AARC Board Meeting 7 PM	22 Mara Board Meeting 6 PM	23	24	25 Mara Meeting 12 Noon
26	27 Finance Com. 7PM	28 Projects Com. 7PM	29	30	31	

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 147.27+ 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@arri.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 Saturday each month: MARA meeting at 12:00 Noon, Fire Station 65, Seward Meridian & Palmer Wasilla hwy. 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
147.33 +	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.

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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 at kl7aa.net](mailto: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.