



From the Hot Seat...

'T WAS THE NIGHT BEFORE FLEA MARKET

by Sam Sullivan N7RHE, President

'Twas the night before flea market and all through the pavilion all things were in their place. The elves had carefully placed all tables neatly in a row anticipating the vendor's arrivals with their wares for to show. The vendors have come and put their wares on display in anticipations of the delightful faces of the next day. Now all is quiet with hope for the morrow that the visitors smiles will delight in want to see the long needed goody for their radio display. Treasures both new but some old and very special from the time of the past. Oh what delight that comes but once year.

I always delight in the camaraderie that comes with this event. Some members that we see but once per year when they come forth to support the major event of the club year. Members both new and some that are mature giving their all for the good of the corp. The special ness that comes not unlike a family reunion. I hope that you will be part of this annual fun and companionship. Many hands always make for light work. Of course when you read this the event will be passed but the memories will always be set fast.

For education ideas or to join the committees, contact Guy N7ZG. For the technical committee contact Dick K7NEX. If you have any ideas for a program or would like to present a program contact Dawn KC7YYB. To assist the radio officer contact Paul N7DOH. For field day, contact Brendan, KD7IKV or Steve, KD7IQL.

Doughnuts and Subs

By Michael Dinkelman, N7WA

Frank Krieger KA7QHG held the job of opening up the Salvation Army building for years and, during that time, I would happily act as his substitute when he couldn't be there. When he had to finally back off and I took over, he acted as my substitute. Unfortunately, Frank is no longer with us but I've been lucky enough in the interim not to require a sub.

Well, those days are gone. I am looking for someone who can occasionally do the honors of getting doughnuts, unlocking the building, making coffee, and setting up the tables and chairs. It usually requires getting there about 8AM as the coffee takes an hour and people start arriving around 9AM. There would be a training session or two (you need to learn where everything is and how to handle the building security alarm).

Thank you for your consideration.

[Reprinted, retitled from February Relay -Ed.]

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The *K7LED Relay*, published monthly, is the official newsletter of the Mike & Key Amateur Radio Club. Mike & Key ARC is an ARRL-affiliated club dedicated to the growth and betterment of Amateur Radio.

The club meets at 10 A.M. the third Saturday of every month at Salvation Army Headquarters, 720 S. Tobin Street, in Renton (near the southeast corner of Renton Airport). Anyone interested in Amateur Radio is invited to participate in the Mike & Key ARC and its activities. Annual dues are \$12 for individuals and \$18 for families.



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Web Site

www.mikeandkey.org

Send dues to

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K7LED Repeaters

146.82 output / 146.22 input
(PL 103.5)
Squak Mountain
224.120 output / 222.520 input
(PL 103.5)
Tiger Mountain

Email

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Send newsletter submissions to

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Mike & Key Online -- Several club resources are available electronically:

On the Web — The club's site at 'www.mikeandkey.org' includes extensive information about club events: VEC testing, membership, past edition of the *Relay* and more.

Reflector — The public message board offers an easy and free way to converse with club members. To sign up, surf to: <http://groups.yahoo.com/mkarc>.

E-Relay — Want the newsletter in color and a day or two before the print edition arrives by regular mail? You will also save the club some money in printing and postage costs. To sign up, send a message to the editor: kg7ku@arrl.net.

Sights and Sounds by Sunrise

by Dawn Humphrey KC7YYB, Activities Chair

We bring greetings from "Snowbirds", Fred N7PZ and Dorothy Lowell KB7WS, Vic ZumBrunnen WB7TB, Vic N7YPB and Barb Carter [now permanently in AZ], Al KB7THX and Becky Hopwood, Earl Palmer N7EP, and our newest members Bill and Clara Harris, and former M&K member, WB7OUT Tom Ramos.

The 2nd annual Yuma hamfest was a bit different, as it is a 3 day event. We can't say right now that we'd go that far again, but you never know. We had several reasons for going this year, so it was a very intense two week trip!

After missing both the meeting and the board mtg, and then being laid low by an attack of vertigo, my report is going to be short and sweet.

I want to thank Adrian for her very capable caring for the raffle business for me, and each of you who faithfully, contributed to our lottery. Without your ticket purchases, we wouldn't be able to provide you the interesting gifts as prizes, as well as store up funds for the biggie in Dec. Thanks again.

The program, as you all are ready for, is our annual elections. We will hold the raffle drawings during the counting of ballots, spaced out. Even those who normally do not buy tickets, [because they leave after the general mtg], will have a chance to purchase and win, because they will want to see who won what position as your leaders for the rest of the year. Remember to bring an extra dollar or two, as well as for the coffee kitty, so you will at least get in on two drawings for this year!

K7LED Relay

JUST IN! The [annual Mike & Key Awards] banquet, as I am told will be at Muckleshoot Casino! The cost is a bit more this year, but we're hoping that it will not be enough to preclude any who want to come, from attending. It will be a hoot as in previous years, with many raffle gifts for both hams and non hams, so please keep April 8th open!!!

We'll be there, even though we'd planned to be in Yakima for their hamfest this year.

Oh, well, maybe next year.

Your weakened, but still kicking program chair,
KC7YYB Dawn

A New 'Daylight Saving's Time' -- Is Coming

by David Smith KB7PSN

Lately, it is has been getting lighter earlier in the morning and staying lighter later in the day. This year (2006) we do not "Spring Forward" until April 2. Daylight Savings Time will occur one year from this weekend when this provision from last year's Federal Energy Legislation bill (passed Aug 8, 2005) comes into effect.

Next year (2007), assuming that the Flea Market is on the same weekend, Sunday morning, the day after the Friday/Saturday flea market will be one hour shorter. There will be one less hour of recuperation before the week's activities start. Luckily, this hour will come back on November 4, when most of the United States switches back to Standard Time.

This year is a time to relax. Next year is the time for change.

MATHEMATICAL & ELECTRICAL VIGNETTES

by Ted Roubal KC7ZEO

ZENO'S PARADOX or Why I wasn't on the amateur radio net last night

The Greek philosopher Zeno of Elea (490-430 B.C.) devised a number of arguments to disprove the reliability of motion, and in one of these, a foot race in which both the Greek runner Achilles and a tortoise are heading toward the finish line, Zeno argues that if the tortoise is given a head start, Achilles will never catch up to the tortoise, hence never make it to the finish line. We refer to this bizarre counterintuitive dilemma as Zeno's Paradox, and more on this in just a minute.

Let's do a modern version of Zeno's Paradox. We'll replace the Greek runner by a mom or dad, and replace the tortoise with a one year old sibling who only recently learned to walk. All are on a pathway leading from the house to the far end of a long level piece of real estate where the ham shack is situated.

Prior to today, the parents either carried their child to the ham shack or pulled it there in a wagon. But now that it can walk, the parents decide to let their kid walk the distance. However because the child cannot walk as fast as the parents, they decide to give their child a 100 foot head start down the path toward the ham shack. ...Let's say that the child maintains a steady pace of 2 mph, however mom (or was it the dad?) decides to run the distance, going 20 mph. Enters Zeno and his famous Paradox...

So the motion begins, and by the time mom (or dad?) reaches the point where the child started, the child is now 10 feet ahead of mom (the child moves a tenth as fast as mom, so in the time it took mom to travel 100 feet, the child covers one-tenth as much ground or 10 feet). Well if you follow along, you see that each time mom

reaches the point where the child was it has covered more ground, and of course this can go on forever. And because mom can never get to the end of this infinite series of small movements she will never catch up to the child, hence never make it to the ham shack.

Well, if you buy into this, you really should see a good therapist. Common sense tells us that mom surely reaches the child, and probably at that instant scoops up the child and continues on to the ham shack. But Zeno's argument remained a paradox because although our good sense tells us that the argument is false, mathematicians of Zeno's time were not capable to show mathematically that the argument didn't make sense. It remained some 2000 years later, with the invention of calculus, before Zeno's Paradox could be disproved based on sound mathematics.

Let's look into this in more detail. Mathematicians refer to the never ending series of small steps as in the above as an infinite series, and in this example a geometric series. Geometric series are relatively simple but an important series and of the form:

$$ar[pwr0] + ar[pwr1] + ar[pwr2] + ar[pwr3] + \dots = [Value\ of\ n=0\ to\ Infinity:]\ ar[pwr\ n]$$

where each term after the first equals the preceding term multiplied by r, which is called the ratio. If 'a = 100' and r = 0.1, you get:

$$(100 * 0.1[pwr0]) + (100 * 0.1[pwr1]) + (100 * 0.1[pwr2]) + (100 * 0.1[pwr3]) + \dots = 100 + 10 + 1 + 0.1 + \dots$$

which is the series for mom (or was it dad?) and the child.

The rule for a geometric series says that if r is greater than zero but less than 1 (that is [0 < |r| < 1]), the geometric series converges to: [a / (1 - r)] . Thus when 'a = 100,' and 'r = 0.1,' the series converges to: 100/(1- 0.1) = 100/0.9 = 111 and 1/9. Thus mom (or was it dad ?) passes the child after running 111 1/9 feet, which takes 11 1/9 seconds.

Sorta paradoxical itself isn't it, that a never ending series converges to a finite number? Well, that's calculus. But I caution you, should you find yourself out walking to the ham shack, and Zeno is ahead of you, *don't be surprised if you don't make it to the shack!!!!*

**General Membership Meeting Minutes -
February 18, 2006:**

Officers present:

- √ **President – Sam Sullivan (N7RHE)**
- √ **Vice President – Carolyn Pasquier (WV7Q)**
- √ **Secretary – Gary Bryan (KG7KU)**
- √ **Treasurer – Jack Grimmertt (N7IHS)**
- **Activity Manager – Dawn Humphrey (KC7YYB)**
- √ **Radio Officer – Paul Roth (N7DOH)**

Trustees present:

- **No. 1 – Brendan Burget (KD7IKV) Chairman**
- √ **No. 2 – Dick Radford (WA7NIW)**
- **No. 3 – Guy Molinari (N7ZG)**
- √ **No. 4 – Dick Vance (K7NEX)**
- **No. 5 – Frank Tate (NA7O)**

President Sullivan called the meeting to order at 10:04a.m. at the Salvation Army building in Renton, Wash.

All members and guests recited the Pledge of Allegiance.

President Sullivan made several announcements: The Mike & Key ARC is affiliated with the ARRL, which members are encouraged to join; everyone, including visitors, should sign the rosters; visitors are reminded not to vote on membership matters; smoking is allowed in the parking lot but not in front of the chapel.

Members and guests introduced themselves.

Quorum present.

Minutes: Motion by Richard N7MER and seconded by Robert KD7WNV to approve the minutes of the previous meeting as printed in the *K7LED Relay*. Motion passed.

Officer Reports

President – Sam N7RHE: The next Mike & Key General Membership meeting is March 18.

Vice President – Carolyn WV7Q: No new memberships.

Secretary – Gary KG7KU: Nothing new to report at this time.

Treasurer – Jack N7IHS: The Club's books are in good order. Gave P&L and Balance Sheet summary.

Radio Officer – Paul N7DOH: Nothing new to report at this time.

Activity Manager – Dawn KC7YYB (No report). Adrian KB7BVL - Please see me to participate in the raffle.

Chairman of the Board – Brendan KD7IKV (No report) [The Mike & Key Board meets February 22, at Galliano's Cucina in SeaTac].

Webmaster – Jim KD7BAT: Read the article in this month's *Relay* for helpful website links and information.

Standing Committee Reports

Technical – Dick K7NEX: Nothing new to report at this time.

Education – Guy N7ZG (No report) Hal KE7BYN - Classes are being planned for this Spring, and committee meetings will be set up soon.

Facilities – Brendan KD7IKV: No report.

Public Service – Dick WA7NIW: The Committee will not be meeting today. The committee will be meeting with Brendan Sunday, February 19 to perform final preparation of the Puget Sound Guide for publication, prior to the FleaMarket.

Strategic Planning – Frank NA7O: No report.

Flea Market -- Mike N7WA: Worker badges are available today. Hal N7NW - Today's program is 'all about the FleaMarket.' Please be sure to sign up to help.

VE Exams -- Scott AG7T: There is a need for Volunteer Examiners at the FleaMarket. See me if you want to help.

Field Day -- Steven KD7IQL & Brendan KD7IKV: No report.

Awards Banquet - Scott KC7UOC: Nothing new to report at this time.

Old Business -

Alligator Award- Calvin KC7IYP: I seem to have a 'lock' on this award. [Sec. Note- If there is enough interest, perhaps Calvin can get with Hal KE7BYN to conduct a class: 'How to get on the air in 95 seconds.']

New Business -

Dick WA7NIW- Nominations. Open positions were presented and opened for membership participation. The results are as follows: President- Sam N7RHE; Vice-President- Carolyn WV7Q; Secretary- {none}; Treasurer- Jack N7IHS; Activity Manager- Dawn KC7YYB; Trustee #2 & #4- Dick WA7NIW, Gary KG7KU, Dick K7NEX, Steve KD7IQL, Alan KB7SVU, Jim KD7BAT, Michelle WA7PVE.

Good of the Order - Nothing for the Good of the Order.

(A few announcements were made regarding antennas and equipment for sale.)

There being no further business, Scott AG7T moved and Richard N7MER seconded a motion to adjourn. Approved and President Sullivan closed the meeting at 10:46a.m.

Attested: Gary Bryan KG7KU, Secretary

Board Meeting Minutes - February 22, 2006:

Officers present:

- √ President – Sam Sullivan (N7RHE)
- √ Vice President – Carolyn Pasquier (WV7Q)
- √ Secretary – Gary Bryan (KG7KU)
- √ Treasurer – Jack Grimmatt (N7IHS)
- Activity Manager – Dawn Humphrey (KC7YYB)
- √ Radio Officer – Paul Roth (N7DOH)

Trustees present:

- √ No. 1 – Brendan Burget (KD7IKV) Chairman of the Board
- √ No. 2 – Dick Radford (WA7NIW)
- √ No. 3 – Guy Molinari (N7ZG)
- √ No. 4 – Dick Vance (K7NEX)
- √ No. 5 – Frank Tate (NA7O)

Visitors in attendance: Jim KD7BAT, Hal KE7BYN, Dave KB7PSN

Chairman Brendan called the meeting to order at 7:04 p.m. at Galliano's Cucina in SeaTac, Wash.

Minutes: Jack N7IHS- Suggested that the minutes of last meeting, specifically in the New Business section, should be amended, and that in regard to the Board's approval of changing the FleaMarket budget reporting cycle -- that the reference to 'cycle' is more accurately worded, when restated in the context, as 'FleaMarket Fiscal Year reporting of from June 1 to May 31.' Following a brief discussion, a motion for the minutes of the previous meeting to be approved with the above stated amendment was made by Sam N7RHE and seconded by Jack N7IHS. Motion passed.

Officer Reports

Chairman of the Board – Brendan KD7IKV: Still looking for someone for nomination for Secretary. Keep thinking of who might be a candidate for this position. The next scheduled Board Meeting is March 29.

President – Sam N7RHE: Next General Membership meeting is March 18.

Vice President – Carolyn WV7Q: No new applicants.

Secretary – Gary KG7KU: Nothing new to report at this time.

Treasurer – Jack N7IHS: A year-to-date budget will be prepared and sent to the Board by email.

Activity Manager – Dawn KC7YYB: No report.

Radio Officer – Paul N7DOH: General planning continues and in anticipation of late Spring for work at the site.

Committee Liaison Reports

Facilities – Brendan KD7IKV: Coordination is still underway for obtaining new keys to the Salvation Army building.

Strategic Planning – Frank NA7O: Nothing new to report at this time.

Technical – Dick K7NEX: Nothing new to report at this time.

Public Service – Brendan KD7IKV: The pre-press revisions are currently being made, for release and availability at the March FleaMarket. The ad sales have been good this year.

Education – Guy N7ZG: Appreciation for Hal KE7BYN, who has stepped forward in his willingness to Chair the committee for identifying education opportunities for the club. The Board commended Hal for articles which he contributed to the *Relay*.

Field Day – Brendan KD7IKV: Progress continues, and efforts will move in earnest following the FleaMarket.

Awards Banquet – Scott KC7UOC has not reported specific status recently. The Board will watch this more closely.

Old Business-

Dick WA7NIW- Presented the Board with a Memorandum of Understanding (MOU) between the Mike&KeyARC and King County ARES/RACES to more clearly identify the roles, responsibilities and priorities in the use of the Club repeater. The Board discussed the implications and worked to improve the intent of the document. The formal approval of the document will be accomplished by the next meeting.
Jack N7IHS- Will look into preparing a work statement for the elected position of Strategic Planning.

New Business-

Jack N7IHS- Everyone give consideration to the elected position of Secretary, as to who would be a good candidate. Gary KG7KU was asked to write an article in the March *Relay*, to give more insight to the duties of Secretary.

Good of the Order- Nothing for the Good of the Order.

There being no further business, Dick K7NEX moved and Guy N7ZG seconded a motion to adjourn. Approved and Chairman Brendan closed the meeting at 8:18pm.

Attested: Gary Bryan KG7KU -- Secretary

March 2006

Public Service Committee Meeting Minutes
- February 19 2006:

[The committee met at Brendan's KD7IKV on February 19 to resolve any issues of editing and publishing nature for the Puget Sound Guide. Minutes were not produced, as the 2006 Puget Sound Guide was published and distributed at the M&K FleaMarket, which can itself be considered the 'minutes.' -Ed.]

Jim Writes to Say 'Hey'

from Jim Monaghan, Sr. N7HKO

1545 West Camelback #63
Phoenix, AZ 85015
Feb 27, 2006

Hi Gang.

Here's my report to you for the Club Relay.

I got to Phoenix February 14 and it was a change from California. Here in Phoenix, people are very friendly and very helping, too. The weather here has been chilly and cool at times. Jobs galore are available here, too. They are building Light Rail and building homes and widening all the Freeways. We have I-10-101-202-60-51. Traffic is not too bad either. We are one hour ahead of you folks and where time goes I don't know. I went to HRO here in the area. Very friendly folks too. In Phoenix Area HOA - Home Owner's Associates has a grip on all antenna's and power lines, etc. You don't want to get into an area with HOA people - they are a pain to deal with.

I am trying Mesa area or Apache Junction area as this area is laid back. I did make contact with a few Hams on 146.940 Repeater which goes all the way to California border and up towards Flagstaff too. There are a number of Repeaters in the area with IRLP both on 2-meters and 440 as well. I will send you a list so you can see what Repeaters have what.

K7LED Relay

You can join the ARA here too as they are the Arizona Repeater Group. There are about 12 Repeaters between Scottsdale and Phoenix. You can make copies to hand out at your next meeting and tell everyone hello for me, too. They are having the biggest FleaMarket here in the Valley on March 11. They have it every year, put on by the local ARC, it will be in Scottsdale Fairgrounds too.

There are a lot of Hams from other parts of the U.S., especially from the East Coast. I met a lot of Hams at HRO that are licensed Real Estate Agents that have helped Hams get homes with CCR's.

I have seen a lot of Beams too. One of the local Junior High Schools here in the area has a nice Beam up with Ringo Ranger and TH6 DXX up 60ft too. I have not gone to the School yet but I will find out the Call of the School soon.

That is all for now. I will keep in touch and will send you some photographs, too.

Take care.

73's

Jim N7HKO

[Handwritten letter transcribed. -Ed.]

Communications Academy 2006

From www.commacademy.org

Confirmed Dates: April 1-2, 2006, at the Criminal Justice Training Center, Burien, WA. Registration to open about February 15, 2006. Academy 2006 will be the 8th annual Academy. The Communications Academy is open to anyone with an interest in emergency communications, volunteer or professional. The presentations are designed to promote the development of knowledgeable, skilled emergency communicators who will support their local communities during a disaster or emergency response.

Ham Nets & Events for 2006 -- March / April

Nets are on 146.82 unless indicated otherwise

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
12 2000 -- King County ARES (Weekly)	13 0545 & 1645 -- Weather Net 145.33 (M-F)	14 2000 -- Snohomish County RACES 146.92 (Weekly)	15 2000 -- General /Tech Info 145.33 (Weekly) 2100 -- NWSOAR Net (Weekly)	16 2000 -- Computer & Packet Net 145.33 (Weekly) 2000 -- Amateur TV Net 147.08 (Weekly)	17 2000 -- Youth Net 145.33 (Weekly)	18 1000 -- M&K Club Meeting 1300 -- Ham exams
19 2000 -- Amateur TV Net 147.08 (Weekly)	20 2000 -- YL Net 145.33 (Weekly) Spring Begins	21	22	23 1900 -- Public Service Net 145.33 (Weekly)	24	25 0900 -- WA ARES HF Net 3.985 (Weekly)
26 2030 -- Snohomish Co. ARES 146.92 (Weekly)	27 1730 -- Puget Sound Traffic Sys. (Daily) 1800 -- WA Emerg. HF 3.985 (Weekly)	28	29 1900 - M&K ARC Board Mtg	30	31	1 (April) 0900 -- NW Swap Net 145.33 (Weekly) <u>Parade:</u> All Fool's Day - Woodinville <u>Public Service:</u> Pierce County MS Walk
2 0200 -- Daylight Savings Time (DST) begins 2200 -- NW Astronomy Net 145.33 (Weekly)	3 1830 -- WA ARES 3.985 (Weekly) 1930 -- PS Repeater 146.96 (Weekly)	4	5	6	7 Relay deadline	8
9	10	11	12	13	14	15 1000 -- M&K ARC Meeting 1300 -- Ham exams