



Enjoy the picnic after our next club meeting

Grab the dogs (live and edible), get your buns in gear and join the fun at the Mike & Key's annual picnic after the meeting Aug. 21.

Mike K7OV is hosting the shindig at the Falcon Ridge Community Center on East Hill in

Programs & Activities

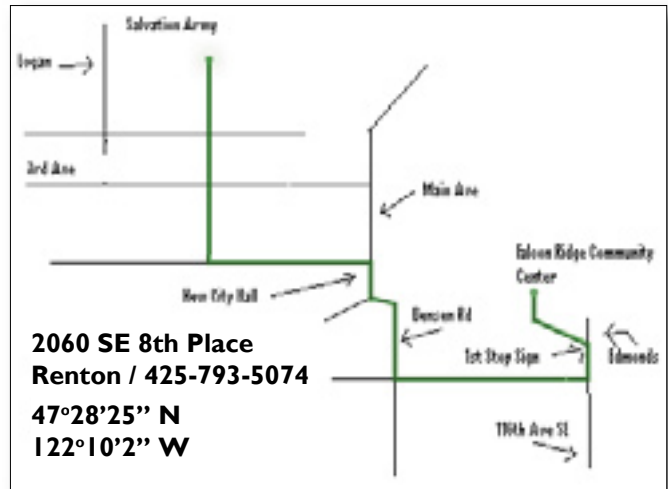
Renton, about two miles from our meeting. With cooking facilities available and lots of friends on hand, what better way to spend an afternoon?

Getting there

⇨ Head south past McLendon's Hardware through the first stoplight and then left on South Third Street.

⇨ Turn right on Main Avenue South and go through one light.

⇨ Turn left on Benson Avenue (near City Hall)



**2060 SE 8th Place
Renton / 425-793-5074**

**47°28'25" N
122°10'2" W**

and go up the hill.

⇨ Turn left on South Puget Sound Drive (at the Union 76 station at top of the hill).

⇨ Turn left onto Southeast 116th Avenue, go one block and turn left again into Falcon Ridge.

⇨ The community center is straight ahead. Park anywhere in the lot.

Learn how to prepare for emergencies

Terry Dettmann / WX7S

Radio Officer

As I discussed at the last club meeting, I'd like to get people together who want to learn about emergency preparedness.

I'm not talking about ARES or RACES, though that could cer-

tainly be a part of it. I'm looking to start some personal preparation for people within the club to respond to emergencies.

For some of you, that may lead into involvement in emergency communications. I can certainly help you get involved if you want me to. The preparedness group,

though, is about more general emergency preparedness. Part of this might include CERT training and certification arranged through the club, or we might just teach ourselves about how we and our families can prepare

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The Inside Story

South Carolina hams built a clubhouse with sweat and ingenuity.

Page 3

Elite DXers share their wisdom at Pacific Northwest convention.

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Check out several new links on the Mike & Key's Web site.

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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.



Postal Address

P.O. Box 4234
Renton, WA 98057-4234

K7LED Repeaters

146.82 output / 146.22 input (PL 103.5)
Squak Mountain

224.120 output / 222.520 input (PL 103.5)
Tiger Mountain

Web Site

www.mikeandkey.com

E-mail

info@mikeandkey.com

Re ector

<http://groups.yahoo.com/mkarc>

Send dues to

Treasurer Jack Grimmett
10624 148th Avenue SE
Renton, WA 98059-4203

Send newsletter submissions to

Relay Editor Paul McElroy
6947 Coal Creek Pkwy SE — No. 1000
Newcastle, WA 98059-3136
k7stq@arrl.net

Club Contacts

President	Michael Dinkelman	N7WA	mwdink@eskimo.com	253-631-3756
Vice President	Sam Sullivan	N7RHE	svsullivan@comcast.net	253-631-0663
Secretary	Gary Bryan	KG7KU	glacialview@worldnet.att.net	253-661-7882
Treasurer	Jack Grimmett	N7IHS	n7ihs@aol.com	425-271-7955
Activity Manager	Adrian Roth	KB7BVL	kb7bvl@comcast.net	425-254-8425
Radio Officer	Terry Dettmann	WX7S	wx7s@cfsystems.org	425-821-5832
Trustees				
No. 1	Scott Robinson	AG7T	sg7@nmlink.com	425-788-0162
No. 2	Dick Radford	WA7NIW	wa7niw@arrl.net	425-828-9791
No. 3 (CoB)	Steve Cook	KD7IQL	kd7iql@arrl.net	206-781-2293
No. 4	Richard Pasquier	N7MER	rpasquier@centurytel.net	253-709-1690
No. 5	Dave Smith	KB7PSN	kb7psn@yahoo.com	425-235-5095
Logo Committee	Dan & Dawn Humphrey	N7QHC / KC7YYB	n7qhcdan@juno.com	206-243-0163
Webmasters	Jim Etwiler / Dave Smith	KD7BAT / KB7PSN	kd7bat@arrl.net	206-633-1512

Several club resources are available electronically:

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

Mike & Key Online

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'll also help the club save money in printing and postage costs.

To sign up, send a message to the editor: k7stq@arrl.net.

Our club's bottom line needs work

Michael Dinkelman / N7WA

President

At the July board meeting, the officers spent a bit of time talking about the upcoming budget cycle. There were a number of issues bantered about in this regard.

One: The 2004 Flea Market didn't throw as big a profit as was forecast and this leaves us a hole that we may or may not have to cover, depending on how expenses go for the rest of the year. Two:

From the Hot Seat

Next year's Flea Market will probably go about the same and it may be time to consider a price

increase for both buyers and sellers (the first in quite a few years).

Of course, we might also consider cutting the budget and some of those extras we've gotten pretty generous in providing throughout the year. But then, what about all the cash we have sitting in the bank? Should we draw down on that or keep it for capital projects and rainy-day woes?

No, we didn't make any decisions at the board meeting. But if you have specific constructive input regarding the upcoming budget, feel free to drop your comments on any member of the board.



On a lighter note, I told you last month that I had joined a reflector for presidents of ARRL-affiliated clubs. It's been interesting to watch the issues discussed. One particular side item (during a discussion of dues) came up from a club down in Rock Hill, S.C.

The president of the York County Amateur Radio Society (YCARS), Bob WA2EMF, mentioned in passing that they had just paid off the mortgage on their clubhouse. I found this intriguing because, though it has been brought up a number of times, the issues against us having our own clubhouse seem pretty insurmountable.

I did a Web search on YCARS to see how we stacked up against them make sure they weren't a mega-club that runs a national hamfest or that they weren't the product of a rich community.

Actually, YCARS is only a third of the size of the Mike & Key, is situated in rural South Carolina and runs a hamfest, too. I then asked Bob to send me some information on how their club managed such a feat.

You'll find his answer in the article below.

I got several things out of his response. Their club is not rich and they have no great benefactor. What they do have is foresight, a resourceful membership, long-term goals, and a willingness to work and put their own cash on the line.

By the way, we have these things ourselves and the goal of this article is not a push toward a clubhouse (though that would be nice someday). I just enjoyed the story and hope you will, too.

One more thing. Bob and I have resolved to stay in touch as clubs. I am going to have Paul put YCARS on the complementary *Relay* list and Bob has promised me theirs, as well (though their publishing schedule is less regular). I think it'll be fun and worthwhile keeping in touch with another club in this fashion.

South Carolina is a long ways from here, but we may be able to teach each other something.

The house a South Carolina ham club built

Editor's Note: In response to an inquiry from Mike N7WA comes this story about a clubhouse.

Bob Bacharach / WA2EMF

Special to the *Relay*

I'd be glad to relate the story behind the YCARS Clubhouse and how it came to be—to the ex-

tent I've learned of it during my years as a member of the York County Amateur Radio Society.

We newer members of YCARS (11 years for me) have benefited from the foresight of a small cadre who planned nearly 20 years ago to build a clubhouse.

After years of meeting in various substandard locations, it

was decided that the club and the community would be better served by acquiring a building that would house all training and emergency communications equipment, enabling the YCARS to better fulfill its chosen mission to provide support

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Key Club Dates

Next General mtg.: **Aug. 21**

Board mtg.: **Aug. 25**

Relay deadline: **Sept. 10**

Elite operators and a hot rig at DX fest

Michael Dinkelman / N7WA

President

If you have any interest in the local DXing or contesting scene, the Pacific Northwest DX Convention is one you don't want to miss.

The Western Washington DX Club hosted this year's event in a south Everett hotel. It was dedicated to Flo Morris, XYL of silent key W7LVI. Flo passed away unexpectedly this year, but I don't think any non-ham has had a bigger effect on the local amateur radio community.

I found this year's program lineup rather interesting. First up was Carl Luetzelschwab, K9LA. Carl is the editor for the *Nation Contest Journal* and writes articles in several magazines regarding propagation and 160 meters.

His premise this year was that 160M is consistent (propagation-wise) throughout the solar cycle. There may be variations through the yearly seasons (winter good, summer bad). But similar conditions exist between solar maximum and minimum.

He backed this up with data (logs) from well-known big guns on 160M as well as propagation/ionospheric theory. Interesting concepts.

Next up was Mike N6MZ, well known DXpeditioner but he was here on ICOM's behalf to show us the new IC-7800. (I understand ICOM didn't make it to the club meeting, so I guess I got to see what you didn't.)

ICOM provided four of these puppies to the MicroHams (Microsoft) Field Day effort, which Mike was involved with. They reported they worked very well (however, is that \$10,600 worth

"very well"?)

Mike went through the internals (four DSPs) and even connected the radio to the LCD projector (it displays the front panel on the wall or a monitor if you want). I went to lunch wanting one of these *real* bad. Alas, reality sets in quickly when you're eating at a Denny's.

Following lunch, Ward NOAX showed us the basics of making stub filters. Actually, we had good success with these down on CW Beach this year, but I could stand to expand my personal knowledge on the subject. I expect there will be a few stubs in my future as I try to get my station in Multi-Op condition.

Bill N1CL was on hand from the League to check DXCC cards and to present his program on Logbook of the World (LOTW), which went "live" back in May. DXers have a high interest in the program as it should help shorten QSL time for major DXpeditions. Bill spent a lot of time educating us on the basics of the program.

Might be one we can do ourselves at the Mike & Key.

Scott N7WLO did a program on VHF contesting—particularly on rovers and mountain-topping. Not a high-interest subject for me, but I didn't yawn my way through it, either.

Al K7AR and Bill N7OU did slide presentations of their respective contest DXpeditions to the Caribbean. Both trips were "Rent-a-QTH"-type operations and both did well in the CQWW contests, placing near the top scores.

I'm ready to go ... except Diane has this thing about me being around for Thanksgiving (the usual weekend of CQWW CW).

Finally, Mike K7IR, president of SteppIR, dropped by and gave a slide presentation about their biggest SteppIR antenna yet. There are only two of these and they are built by special request.

They are SteppIR Yagis that cover 80 to 10M. They are *gigantic* and cost more than \$12,000 (and they lose money on them). Mike showed an installation he did in California. The gentleman who ordered it provides weather reports to sailors in the South Pacific—a critical need.

He was going to order a \$20,000 Log Periodic until this option came up.

Pictures show the elements practically running over *both* property lines on either side of the guy's house (I forget his call). It's been placed on a heavy duty crankup. I guess it works. The ham is very pleased and can be heard all over the South Pacific on 80M and 40M. His neighbors aren't pleased, however, and it sounds like legal action may be in the works (despite having all permits and no covenants).

SteppIR hopes to make this model available for commercial and government sale (at a higher and profitable price).

Finally, my day ended at the banquet, where Alan K6SRZ gave a slide show and talk on the T33C (Banaba) DXpedition. Alan was the doctor on the trip as well as an operator, and has some interesting perspectives. Banaba is an island virtually destroyed by phosphate mining. The recovery of the island and its people made for a sad, but hopeful story.

Next year's convention is in Portland and will be hosted by the Willamette Valley DX Club. I'm already planning to go. Maybe we'll see you there?

Public Service Events

**Saturday, Aug. 21
Shoreline Parade**

Shoreline
Contact: Tom, WB7OUT
206-784-9243
bc994@scn.org

**Saturday, Sept. 11
Sou'wester Rally**

Shelton area
Contact: Alex, KD7RAX
pergatory@pagematrix.com

**Sunday, Sept. 12
Simpson Stages Rally**

Shelton area
Contact: Alex, KD7RAX
pergatory@pagematrix.com

**Saturday, Sept. 25
Autumn Leaf Fest Parade**

Leavenworth
Contact: Tom, WB7OUT
206-784-9243
bc994@scn.org

**Saturday, Oct. 2
Diabetes Walk-a-Thon**

Seattle
Contact: Mark, KD7KUN
425-881-6260
kd7kun@yahoo.com

**Saturday, Oct. 2
Salmon Days Parade**

Issaquah
Contact: Tom, WB7OUT
206-784-9243
bc994@scn.org

**Sunday, Oct. 3
Kitsap Color Classic Ride**

Kingston - Poulsbo area
Contact: Gene, W7AKA
425-226-4115
w7aka@arrl.net

**Saturday, Oct. 16
Mount Hood Rally**

Mount Hood, Ore.
Contact: Rich, KC7TXF
360-574-8593
maryo@pacifier.com

Building a ham clubhouse

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to the local Office of Emergency Management and encourage the growth of Amateur Radio in York County, South Carolina.

The original visionaries included a US Airways pilot (now retired) and at least three members with experience in general contracting. The pilot-member, who'd bought a small grass airstrip about three miles west of Rock Hill, leased the rural building site (one-plus acre near the runway) to the club for 20 years at \$1 per year, with an option to renew for another 20 years.

The club's principal responsibility was to erect and maintain the clubhouse, operate *only* a radio club and related functions within the building, pay the necessary real estate taxes, utilities, and maintain appropriate property and liability insurance.

Construction funding was obtained largely through hamfest profits and zero-interest loans from members by selling "grids" with a value of \$100 each. Each grid coordinate represented a "loan," which would be paid back during a public drawing in December.

We generally repaid no more than 10 grids per year. Some members forgave their grids by declaration.

As additional needs were identified or specs changed, more grids were sold—such as a recent sale (since repaid) for concrete walkways to benefit our physically challenged members.

The building holds a large meeting room, full kitchen with sink, multiple counters, oven/range/microwave, refrigerator/freezer, restroom, and large operating room. It has built-in

counters for equipment, multiple HF/VHF/UHF stations, and two towers holding six-element triband Yagis, a two-element 40-meter Yagi and VHF/UHF Yagis.

The building is heated and air-conditioned as it gets pretty hot and humid at times here. And we *do* have a winter—albeit a short one, generally.

If YCARS had to buy the land, we would most assuredly have a mortgage or building loan. I believe the land would have sold for about \$30K at the time the idea was born and is worth \$40K to \$45K or more now.

I won't mention the real estate tax rates in York County as I don't want you to hate us too much (or to send more Yankees down here—heh heh—I'm originally from Long Island, N.Y.).

Suffice it to say that when the gavel came down on the December 2003 meeting and we realized we'd paid off all construction costs, well, there was joy in Mudville—er, Rock Hill.

By the way, our construction crew consisted of many gophers (me and others like me), who did what they were told by those who knew how to swing a hammer. Our construction gurus managed to purchase roof trusses from a sale that had recently fallen through (nice discount there!) and continued to purchase materials and such services as were necessary at prices that you and I would not be able to duplicate.

As we stepped back at each stage of construction, snapped a few photos for the memory board, and popped the lid on an 807 or two ... there was much pride in the results and appreciation for the "sweat equity."

That's our story ... and we're stickin' to it!

Officers present:

Vice President – Sam Sullivan (N7RHE)
 Secretary – Gary Bryan (KG7KU)
 Treasurer – Jack Grimmertt (N7IHS)
 Activity Manager – Adrian Roth (KB7BVL)
 Radio Officer – Terry Dettmann (WX7S)

Trustees present:

No. 1 – Scott Robinson (AG7T)
 No. 4 – Richard Pasquier (N7MER)
 No. 5 – Dave Smith (KB7PSN)

Vice President Sullivan called the meeting to order at 10 A.M. at the Salvation Army Building in Renton, Wash. All members and guests repeated the Pledge of Allegiance. The president 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 Scott AG7T and seconded by Paul K7STQ to approve the minutes of the previous meeting as printed in the *K7LED Relay*. Motion passed.

Officer Reports

President – Mike N7WA: No report.

Vice President – Sam N7RHE: New club membership application - Tom Johnson K7GOA - members voted and accepted Tom. Welcome to the club, Tom. We look forward to working with you.

Secretary – Gary KG7KU: The July '04 *Logger's Bark*, of the Radio Club of Tacoma, is available.

Treasurer – Jack N7IHS: Issued the P&L statement.

Radio Officer – Terry WX7S: See 'New Business' comments.

Activity Manager – Adrian KB7BVL: Raffle items are available, please participate.

Chairman of the Board – Steve KD7IQL: [Sec. Note]: Next board meeting is July 28; everyone is welcome to attend.

Standing Committee Reports

Those committees not reporting in the *Relay* are asked to report before the general membership.

Technical – Richard N7MER: Nothing to report at this time.

Education – Dave KB7PSN: Nothing to report at this time.

Facilities – Steve KD7IQL: No re-

General Meeting Minutes July 17, 2004

port.

Public Service – Dick WA7NIW: No report.

Strategic Planning – Carolyn Pasquier WV7Q: No report.

Public Service Communications – Gary KG7KU: Public service opportunities are listed on the slips of paper located at each of the tables. Those interested in helping with the SEAFAIR Torchlight Parade should contact me or Pam N7PRS or sign-up online at:

www.seafairparademarshals.org

Field Day – Steve KD7IQL: Brendan KD7IKV reported the results of Field Day. Total scores outdistanced the Radio Club of Tacoma). RCT tallied 10,086 QSOs, whereas Mike & Key accumulated 12,924. Brendan commended the band chairs and all others who participated for a job well done.

Picnic – Mike, K7OV: Adrian KB7BVL mentioned the picnic follows next month's general membership meeting, Aug. 21. All are encouraged to participate in the club picnic.

Old Business

No old business.

New Business

Jim N7HKO: Reported some not-so-good news, that two antenna bills for the state of Hawaii were vetoed.

Terry WX7S: Issued a call to the club for emergency preparedness. A generous exchange of questions from members of the club followed. Terry emphasized the importance of knowing command structure and task assignment methods, which have become significant factors in usefulness of ham radio volunteers in an emergency. Gone, perhaps, are the days when hams just "show up" during emergencies. A show of hands by the membership indicated the desire to know more on this subject.

Good of the Order

Marcos WL7JS asked about the ham CDs with computer shareware, and was directed to contact Mike N7WA for information.

Dawn KC7YYB requested reference to 'Humphrey' to exclude an 's.' Dawn also suggested that Gerhard DL8GBP (ham now located in Germany) be provided with the Reflector address, so as to provide a more broad readership of his

Welcome, new member

The Mike & Key Club warmly welcomes Tom Johnson, K7GOA, an Advanced ham from Kent. Tom was approved in July.

correspondence and activities.

[Sec. Note]: Next general membership meeting is Aug. 21.

There being no further business, Jim N7HKO moved and Brendan KD7IKV seconded a motion to adjourn. Approved and Vice President Sullivan closed the meeting at 11:45 A.M.

Attested: Gary Bryan – Secretary, KG7KU

VHF+ conference

The Pacific Northwest VHF+ Conference is set for Oct. 1-2 in Moses Lake.

Register at www.pnwvhfs.org. Advance registration is \$25 and includes a buffet lunch on Saturday. Make your room reservation at the Best Western Hallmark Inn and Conference Center *before* Sept. 1 in order to get the special conference rate.

Free to a good home

From Mike N7WA comes this generous offer:

Thirteen (13)-element 2M antenna. Working condition unknown as it was thrown into the antennas I bought last month.

It's big, probably 12 to 15 feet long. I need to get it out of my boneyard or I'm gonna start taking it apart for the aluminum.

If more than one person wants it, we can draw names out of a hat at the next meeting. You'll need to pick it up from my place, but I might be persuaded to deliver if you're not far away.

Let me know if you are interested at mwdink@eskimo.com.

Learning how to prepare for emergencies — on and off the air

Continued from Page 1

to respond to emergencies.

I've started a mailing list for people who want to be part of the effort. This is a closed, private list. You can't find it anywhere by searching for it. You can only become a member by asking to join. I have to approve your joining.

This should keep spam and other things to a minimum. We will be sharing not only plans, but materials on preparedness. I have a bunch of material from CERT training, which I'll be posting for everyone to see. If there is no interest in running sessions at club meetings, then we'll continue training online.

I've already sent invitations to everyone who gave me their name and an e-mail address at the last meeting. Many of those people have already signed up. If you haven't and would like to, then

send an email to:

Prepared-subscribe@yahoogroups.com

I will approve you for addition to the list as a Mike & Key member. I'm looking to develop some of the people on the list as instructors for sessions at club meetings and others as helpers who can help all of us get ready. We don't need a terrorist to cause an emergency here. We all know that there are enough natural emergencies that we should be ready for. However, Seattle is an attractive terrorist target. We ought to be ready for something spectacular here, as well.

I hope all of you will join me in moving forward with emergency preparedness. Even if you don't do anything more than get your family ready, that's great! I hope many of you will get more involved in ARES or RACES. I look forward to working with all of you to be the best prepared club anywhere in the United States.

Several new links added to the Mike & Key Club's Web site

Our Web site (www.mikeandkey.com) has new links on the "Links" page.

The first is a new Web address for the North Kitsap ARC (listed with other Northwest clubs). In "Other Link Sites," check out Craig Celia at www.woodnames.net, who offers wooden signs

carved into call signs and/or names. Also take a look at Swiss ham Felix Meyer, HB9ABX, who is interested in antenna construction.

Information about the Pacific Northwest VHF+ Conference, which runs Oct. 1-2 in Moses Lake, is on the "Home" page.

Officers present:

President – Michael Dinkelman (N7WA)
Secretary – Gary Bryan (KG7KU)
Treasurer – Jack Grimmatt (N7IHS)
Activity Manager – Adrian Roth (KB7BVL)

Trustees present:

No. 1 – Scott Robinson (AG7T)
No. 2 – Dick Radford (WA7NIW)
No. 3 – Steve Cook / CoB (KD7IQL)
No. 4 – Richard Pasquier (N7MER)
No. 5 – Dave Smith (KB7PSN)

Visitors: Jim Etwiler, KD7BAT.

Chairman Cook called the meeting to order at 7 P.M. at the Salvation Army Building in Renton, Wash.

Minutes: Motion by Richard N7MER and seconded by Dave KB7PSN to approve the minutes of the previous meeting as printed in the *K7LED Relay*. Motion passed.

Officer Reports

Chairman of the Board – Steve KD7IQL: Nothing new to report.

Board Meeting Minutes July 28, 2004

President – Mike N7WA: Nothing new to report at this time.

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

Treasurer – Jack N7IHS: Nothing new to report at this time.

Activity Manager – Adrian KB7BVL: Annual picnic follows the next general member meeting.

Radio Officer – Terry WX7S: Nothing new to report at this time.

Committee Liaison Reports

Facilities – Steve KD7IQL: Nothing new to report at this time.

Strategic Planning – Carolyn Pasquier WV7Q: Nothing new to report at this time.

Technical – Richard N7MER: Nothing new to report at this time.

Public Service – Dick WA7NIW: Database tweaking is still in progress.

Education – Dave KB7PSN: The Tech class is still in planning phase, with instructors identified.

Field Day – Steve KD7IQL: General review of results.

Picnic – Adrian KB7BVL - Mike K7OV will host the picnic at his house following the next general member meeting.

Old Business

General questions on the status of the new Repeater installation.

New Business

No new business.

Good of the Order

Nothing at this time.






There being no further business, Jack N7IHS moved and Scott AG7T seconded a motion to adjourn. Approved and Chairman Cook closed the meeting at 8:10 P.M.

Attested: Gary Bryan – Secretary, KG7KU



Ham Nets & Events August / September 2004

Nets are on 146.82 unless indicated otherwise
Send calendar items to the Relay editor: k7stq@arrl.net

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
15 2000 — King Co. ARES (weekly) 2000 — Amateur TV net: 147.08 (weekly)	16 0545 — Weather net: 145.33 (M - F) 1645 — Weather net (M-F)	17 2000 — Snoho. Co. RACES: 146.92 (weekly)	18 2000 — General Info & Tech net: 145.33 (weekly)	19 1900 — Pub. Service net (weekly)	20 2000 — Youth net: 145.33 (weekly)  N. Am. QSO Party SSB (Fri. - Sat.)	21 0900 — Club net 1000 — Club mtg. 1300 — Ham exams M&K Picnic Shoreline Parade
22 2030 — Snoho. Co. ARES: 146.92 (wkly.)  ARRL 10 GHz & up contest (Sat. - Sun.)	23	24	25 1915 — Board mtg.	26	27	28  YO DX HF Contest
29 2200 — Northwest Astronomy net: 145.33 (weekly)	30 1800 — WARTS: 3.970 (daily) 1845 — WSN I: 3.658 (daily)	31	1	2	3	4 0900 — WA Emerg. HF: 3.985 (weekly)  Region I Field Day, SSB
5	6 1900 — Elmer's net: 145.33 (weekly) 2000 — YL net: 145.33 (weekly)	7 2000 — Maple Valley ARC/ARES: 146.54 (weekly)	8 2030 — WARFA swapnet: 3.908 (weekly) 2100 — NWSOAR net (weekly)	9 2000 — Computer & Packet net: 145.33 (weekly) 2000 — Amateur TV net: 147.08 (weekly)	10 Relay deadline	11  ARRL Sept. VHF QSO pty. (Sat. - Sun.) Sou'wester Rally Shelton
12	13 1730 — Puget Sound Traffic Sys. (daily) 1830 — WA Emerg. HF: 3.985 (weekly)	14	15	16	17	18 0900 — Club net 1000 — Club mtg. 1300 — Ham exams Wash. State Salmon Run