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N7IHS

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**Web Page**

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**Reflector**

[http:// groups.yahoo.com/mkarc](http://groups.yahoo.com/mkarc)

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## The Prez Sez

Club President Jack Grimmett, N7IHS



There is a strong possibility that the Club will not have a Christmas Party this year. The reason is that we cannot find anyone to chair the event. Last year we had the same problem but Mike Dinkelman, our Activities Manager, stepped up, along with his wife Diane, and organized the party. The Awards Banquet held this last spring had the same problem. When Mike couldn't find a chairperson, he and Diane again organized the banquet.

There has been other instances of members perform double duty organizing the various Club committees. Specific instances include Dawn Humphrey's last two years as Picnic chairperson and Alan Hughes (and others to numerous to mention) serving multiple years stints as Field Day Chair. There have been many other

examples over the years. We tend to burn out these members and we have no new blood to replace them.

The message I am trying to convey is that we have a severe case of membership apathy and it's time that we do something about it. I am not saying that every Club member has to be a chairperson or to serve on a committee, but we have to try and find a way to get more people involved.

The first place to start is with the Strategic Planning Committee. This committee has not been active for the past 4-5 years but now Carolyn Pasquier has volunteered to chair the committee. I hope that Carolyn's committee can come with some ideas on how we can stimulate more membership interest in the Club. In the mean time I would request that any member who have any suggestions concerning this matter contact Carolyn or myself.

## Programs and Activities

Activity Manager Michael Dinkelman, N7WA



Last month, we visited the advanced arts of microwaves and the upper limits of our frequency allocations. This month, we are going to step back into the basics.

Remember your first dipole? Well, we have members that have never put one together. If you're in that category, you probably wonder why build one? How do you make sure it's working? Is it hard to build? How does it work?

If you're an old Timer, you can sit in and kibitz while I try to teach the basics and Dan Humphrey puts one together. (If you've forgotten about your dipole basics, you'll find an excellent refresher course in this Relay prepared by Scott, AG7T.) This isn't going to be a Master's thesis but maybe we can make it fun and teach a few things too. After all, that's why we come together.

In November, I tentatively have an APRS (Automated Positioning Radio Service) program set up with Doug Wetzell K7IP. His group had a neat demo at one of our previous Fleamarkets. This is an inter-

*(Continued on page 2)*

(Continued from page 1) **Activities**  
esting blend of radios, GPS, and packet.

Since December requires extra time to vote in the budget and we have a grand raffle to run, there is no planned program. However, I am open to ideas for January. In particular, I would like to further this idea of getting back to basics. Maybe we could hear from our newer members who are also new Hams and get some sugges-

tions? Speak up! Many of you joined this group to learn more.

Finally, I have been asking for a Christmas Party Chair since July. (Yeah, I thought it was a long lead time too—guess not.) If no one volunteers by the October meeting I assume the interest is not there. It doesn't have to be an individual, a group will suffice as well (it's actually more fun that way).

*A world of explanation. Last Spring, my wife took a call from a gentleman who wanted to get rid of a couple of rolls of resistors. Diane promised I would put it in the Relay. Frankly, I dismissed the idea, thinking nobody would be interested in them. Yet, after a bit of a tiff, Diane FORCED me to publish the offer. Following that, I completely forgot about the resistors. Now you learn, as they say, "the rest of the story".— N7WA*

## A Funny Thing Happened on the way to the Mailbox the Other Day

By Ted Roubal KC7ZEO, PhD.

People who know me are aware that know that my basement is full of highly sophisticated metal working machine tools, electronic test equipment (from A to Z), a black and white and color photo darkroom, screen printing and printed circuit board equipment, electronic components stacked to the ceiling and, at one time, a model railroad empire. Thus when I opened the Relay a few months ago and read the notice, "FREE, 2 reels of 5000 resistors", I called the offering party right away.

The man at the other end said, "Oh, that's not right. It should have read FREE, 5000 reels of 1000 resistors each".

WOW..., that's 5 million resistors!!!!

The I was told was told... You can have 'em but ya gotta take 'em all, and that's 3 truck loads. Well, I don't own a truck nor did he have a place to store 3 truck loads. But, wait, my daughter, who works at Microsoft has a truck and a big barn too. Maybe she could help? An immediate call got an immediate reply "Well, I guess you can use the truck, but you CAN'T store them here". After my pulse and blood pressure finally returned to normal, I too realized I just couldn't cope with 5 million resistors, but..hey, wait, maybe the Electrical Engineering Department at the University of Washington could use them? COULD WE?????!!!!!! Well we sure can; bring them here and thanks a lot!

But now, the plot thickens. Seems that my Microsoft daughter was talking the next day to an older woman colleague who was noticeably excited...and saying

"Know what?, a man is coming out tomorrow to unload our garage that is full of resistors. Now I can park the car in the garage again".

"Holly Molly", says my daughter, "that's my dad who is picking them up".

And I did.... and most DID go to the University of Washington, all that is except about 20,000 that I added to my collection of components.

### Curious about that Basement?

Me too...





## Silent Key

It is with great regret that I report that Mike and Ronnie La Ferla's son Michael KC7UZX lost his 3 year battle with cancer and became a Silent Key. He was only 31 years old. Services were held October 12th at Our Lady of Sorrows Chapel in Snoqualmie. Our prayers go out to the family.



## 10 -10? What's That?

by N7QHC Dan #59244 VP #2891

Perhaps, while listening to or having a QSO, you've heard the question asked - "Do you have a 10 -10 number?" You think to yourself, "What's that, after you or the responding party either say 'no' or gives a number consisting of up to 5 digits. Well, Folks, if you have been listening on 10M, you just heard what was started back in the early 60's when the FCC was divvying up the frequencies to bring in CB [formerly 11M]. It was a means of keeping activity going in times of low sunspot activity, so that "Uncle Charlie" wouldn't think, "Oh, here's one that we can grab - no one's using it!"

It was also designed to be a fun way of "contesting" by seeing how many numbers you can gather, sometimes referred to as "paper chasing". Different areas of the country began what's now called "Chapters". Our area is called the Chief Seattle Chapter of Ten-Ten International. Yes, "International" because there are chapters all over the world. To make things more interesting, there are progressive levels you can reach by increasing numbers of contacts. There are at least a half a dozen or more right in the Mike and Key Club that you can talk to. One being Dan N7QHC who was handed the Chapter Headship by Aldo N7NYM. Off the top of our head, there is also Earl WZ7H, Frank KF7TX, and r Lloyd WA7HNY.

Within each chapter, there are different levels and there are levels at the International arena. There are people who try and collect as many chapters as possible, because the chapters have points to pass out to those

who contact their members.

Sound complicated? It can be, or not, depending on your own desire to get caught up in the paper chase. As you contact some people, they are almost rabid in their quest for new numbers and new chapters. With others, they get so wrapped up in just their QSO's that they sometimes forget to even ask. So, the depth of your involvement is up to you, as with about anything. Once you've gotten your number how often you use it is up to you.

Sound like something you'd like to do? Hop on 10M and listen awhile. There are 10 - 10 nets running every night up and down the band. The Chief Seattle runs every night, seven nights a week. The freq. is 28.625 @ 8 PM except Mon and Thurs when it is 28.430 @ 8 PM.

All you have to do is collect 10 numbers with call sign, name, date of contact, and QTH (which is State, Province or DX country) from the folks you contact. Send them in to International with ten dollars and a SASE and you will receive your own number which is good for life.

To find out more about 10 -10 International check their webpage @ [www.ten-ten.org](http://www.ten-ten.org) or talk to any of the above mentioned members. Dan also can bring one or more of the Ten-Ten quarterly news mags. Better hurry if you are interested because the dues are going up Feb 1st '03. The new dues will be \$15 per yr, or \$40 for 3 yrs. [currently 3 yr is \$25]. Ten -Ten is celebrating 40 years of continuing the purpose of saving 10M this year.

# Center-Fed Dipoles

Scott Robinson, AG7T

I really like wire dipoles for antennas. They are fun to build and don't require rocket-science to design. You can just apply some simple math and be on the air in 15 minutes.

Another thing I like about dipoles is that their orientation is not all that critical as long as you keep the elements away from metallic objects. You can setup a dipole with the center higher than the ends and produce an inverted V. You can bend the ends of a dipole around obstructions and it will still work about as well as if it were straight and flat-top.

$$L_{\text{feet}} = 468/f_{\text{mhz}}$$

## Designing and Tuning Your Dipole

The no-modeling approach:

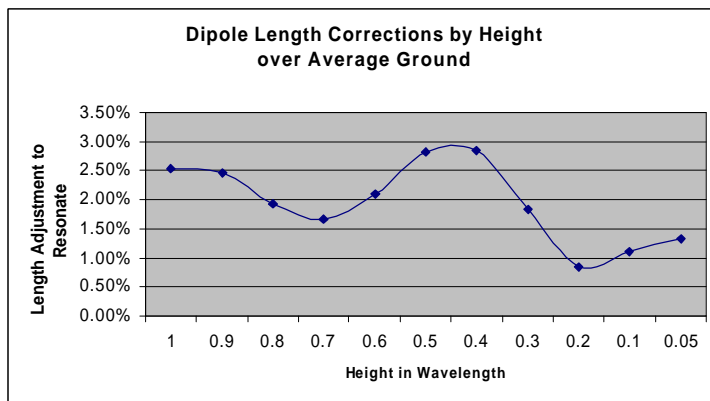
1. Use the 'classic' length equation shown above for the design frequency and cut the wire to that length+5%.
2. Put a 1:1 Balun in the middle of the wire by cutting the wire in half and attaching a cut end to each side of the Balun. Attach an insulator to each of the outside ends so that the hoist ropes are isolated from the elements.
3. Connect the coax to the Balun and hoist the antenna to its operating height. This is important, because checking SWR with the antenna barely off the ground will give poor results for HF frequencies. The height is just too small a fraction of a wavelength and the ground loss is severe.
4. Check the SWR. If it is about 1.5:1 at your design frequency, you are done. If not, then you should try shortening each end about 1% and try 3 and 4 again. If the SWR goes up from one time to the next, you went too far. I shorten by folding back the element ends and tape the folded piece against the element instead of cutting. (Who knows where I'll put up the antenna next time?) Just make sure that the folded back end makes good electrical contact with the main part of the element.

So how does one choose a design frequency? I choose something in the middle of the frequency range I want to operate on. The rule-of-thumb I use is that dipoles have a 2:1 bandwidth that is about 5% of the design frequency. This rule-of-thumb is primarily because the resonant Dipole's resistance is ~73 ohms so minimum SWR for a 50 ohm system is ~1.46:1 (see graph below). For phone, I'd use 7.175 or 3.775. For CW, I'd use 7.050 or 3.550. If you can get the 40M dipole up 28 feet or more, 7.150 will al-

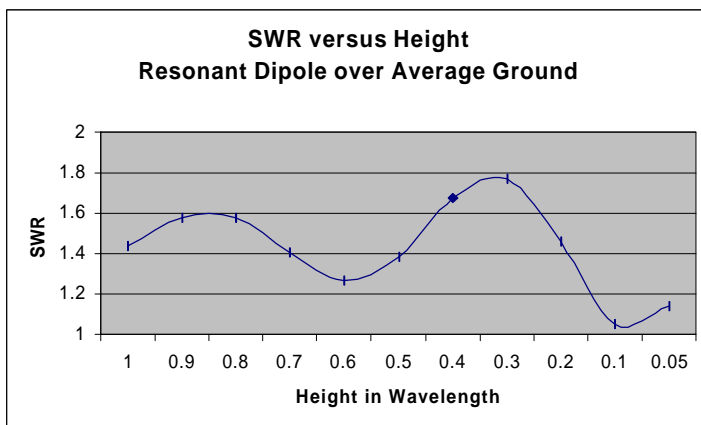
low you to work both phone and CW at < 2:1 SWR.

## Data from Modeling

Your antenna height for a particular design frequency will impact the length of the element much more than the wire gauge for HF frequencies. The following graph is constructed to show this characteristic for a dipole resonated for 7.150 MHz at various heights above 'average ground'. For 7.150 MHz, the 'classic' length is 65.455 feet so if you cut it longer 3.5% at 67.42 feet (67' 5") you'll be able to get a good resonance by shortening.



Height also affects the impedance of the dipole due to ground effects. The following graph shows what you can expect as a minimum SWR for a resonant dipole at various heights.



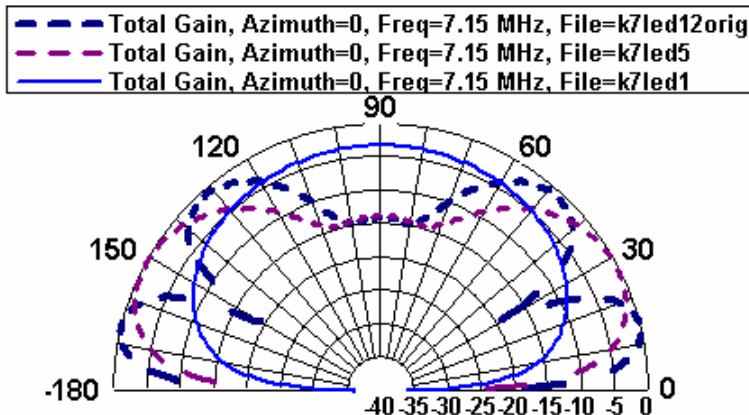
Another complication of height is that the radiation pattern changes. The following shows the elevation pattern changes. Picking a height that supplies a useful take-off angle to the stations you want to work is tricky. It's always a compromise. Generally, the higher the antenna the lower the take-off angle of the strongest lobe and the stations you work will be further away. For local emergency service, a low height will give you the high angle coverage you need.

The graph below shows 3 patterns, the solid line is for a

*(Continued on page 5)*

(Continued from page 4)

height of .1 wavelengths; the medium dashed line is .5 wavelengths; the heavy dashed line is 1 wavelength.



Now you are all set for discussing dipoles at the October club meeting.

Last month, a member asked why we didn't have a "member of the month" column. There is only one reason I came back— somebody needs to write one. One of our members has taken on that challenge. Her continuation will probably depend a lot upon your feedback.—Ed

## Sights and Sounds

by Sunrise/ KC7YYB

Meet your Chairman of the Board, or as Brendan KC7IKV likes to refer to himself at introductions; the "C.O.B." He's the youngest chairman that we've ever had at age 31.

He was recently married to Trina in a Celtic traditional ceremony, in Port Townsend, not too far from our Field Day location this past July. Sharing his life along with Trina are 3 birds—a parrot and 2 parakeets. He just recently had to bury his ferret who lived to be about 18 yrs old.

When asked what sparked his interest in Ham Radio, he cited not being happy with the limited range of CB when the legal 4 Watts wasn't making the grade. He

attended our club meetings for awhile, keeping a very low profile. When a Mike and Key Ham Radio Class was announced, he signed up and obviously passed.

Once licensed, he got involved in public service. He was noticed by Rick Hodges KB7TBE and recruited into the local ARES group. From there he became more active at the Mike and Key in their Public Service group. He then was nominated for the Trustee position and from there to the Chairmanship, which speaks well of what a valuable asset he is to our group.

His other skills are computers and digital photography. He is employed as a Digital Imaging Specialist. He has an Associate of Applied Science Degree. Recently, while between jobs, he hired on as a Children's Photographer, which, although he is quite good at it, wasn't his preferred line of work. However, it did help with the wedding expenses.

Other Ham related interests include PSK 31, building homebrew antennas, and 6M DX, as well as the public service events. I'm sure he'd enjoy you speaking to him about any of the above mentioned items.

## TIS' THE SEASON.....

By Barry, KC7YB

No this isn't another disgustingly early Christmas story. But it truly is the season for the public service committee. Between now and January 1, we need to verify all the information in the Public Service Booklet, write new articles, sell ads, lay out the booklet and get it to print. The Booklet is the best known publication of our Club to the amateur radio community and, in many ways, is our public face. If you would like to take part in this very valuable task or any of the others we are involved in, then please join us at our next committee meeting. There is no such thing as a free lunch but we can guarantee you a good one with great company. We meet at 12:15 PM after the general meeting at the Yankee Grill, in the Renton Holiday Inn at Rainier and Grady Way.

Another member also took up my challenge to try and write a regular column—this one of a technical nature. Hal is going to try and keep us informed of interesting Web sites. Drop him a note if you think there is something worth reviewing. At the very least, let Hal know if you enjoy his column. I've already bookmarked this one in my browser. -ed

## WEB SITES OF INTEREST TO HAMS

by Hal Ingram, N5CG

We're all aware of the influence of the Internet on amateur radio, both good and bad. I say bad only in the sense that it has drawn a lot of young peoples' attention who otherwise would have become amateur radio operators.

We are all aware of the positive influence the World Wide Web and e-mail have had, and will continue to have, on our lives. The 10 year old World Wide Web and e-mail are rapidly becoming more important than the 100 year old telephone.

There are a tremendous number of ways that we can use the Internet to assist us with our mutual hobby. We all have our favorite examples, but one that comes to mind occurred a few months ago. I was in my shack operating with both my radio and computer turned on. I established a CW contact on 40 meters (without using the computer) with a chap in Oklahoma City. We carried on for about 30 minutes. The instant we signed off, I heard my computer ping indicating I had just received an e-mail. I reached over and clicked on it and there in front of me was a full size, colorful QSL card acknowledging our contact. It had arrived within seconds of our signing off. I know that many purists don't like e-mail QSLs but, what the heck, I'm not a contester, and I thought it was pretty neat.

However, my purpose for writing this article is to talk about web sites of interest to amateur radio operators. I'm assuming that you have access to the web, either from your home computer, or at least, to one at a local library.

I'll start by telling you what I consider to be the most complete and well designed web site for amateur radio operators. It is:

## How to be Popular (without even trying)

By Michael, N7WA

November is only a few weeks away. During the first (CW) and third (SSB) weekends of the month, the ARRL Sweepstakes ("SS") contest will be held. It's a domestic contest and the goal is to work as many USA stations in as many ARRL sections as possible. The SS has a unique quirk. You can only work a station once. Not once on each band, like Field Day—once, period! Here's

AC6V's Amateur Radio and DX Reference Guide  
Written and maintained by Rod Dinkins, AC6V

It is an easy to remember the URL: [www.ac6v.com](http://www.ac6v.com)  
Just remember:

[www dot \(a\)lternating \(c\)urrent \(6\) \(v\)olts dot com](http://www.dot(a)lternating(c)urrent(6)(v)olts(dot)com)

Rod is a highly skilled electronics technician-ham radio operator-technical writer. Just a few of his many accomplishments include:

DXCC Honor Roll, 326 countries, mixed CW and Phone  
DXCC QRP 107 countries mixed CW and phone  
5Band WAS #421, plus WAS on 17 meters, and worked  
49 states on 12 meters DXCC-CW, WAS CW, WAS  
QRP, WAZ, 10 meter SSB #118, WPX, & WAC

Just think, he did all this with a vertical and a small 3-element beam that he had for a limited time

Rod recently wrote and published: AC6V's DX101 Book All About DX and HF. It is a very informative, easy to read book. You can learn more about it on his web page.

When you open his web page [www.ac6v.com](http://www.ac6v.com) you encounter an easy to follow index featuring over 700 amateur radio topics, from these you can drill down to over 6,000 links. There is virtually no subject regarding amateur radio that you can't find pertinent information about

Rod reports that the following twenty topics are those most often delved into. But, remember there are many thousand more topics awaiting your curiosity.

Antenna Projects	Software	Tech Reference
Morse Programs	Antenna Software	Operating Modes
Homebrew	SWL/Scanner/BC	Freq/Band Plans
Swap Sites	Antenna Dealers	Product Reviews
Logging	Callbooks & QSL	DX/Contest Pages
Morse Aids	Operating Aids	Propagation
Repeater Guides	Bulletin/News	

If you haven't done so already, when the bands are dead, if you just want to surf the web, or you have a question pertaining to amateur radio, go to [www.ac6v.com](http://www.ac6v.com) and enjoy. You won't be disappointed. And, if you should know of a topic that isn't covered, or if you know of a link that isn't included, send Rod an e-mail. He is constantly improving this already wonderful site.

what happens. By Sunday afternoon, all the big guns have worked each other and are scrambling for contacts. In fact, they'll be begging for contacts and will work anybody! Ever worked WAS in 24 hours?—it's possible here.

All you have to do is show up. If you work a 100 contacts you can even get a pin. (I have a whole collection back to 1991). You do need to know the contest exchange and the rules (see [www.arrl.org](http://www.arrl.org) or ask me). Check it out!

**General Meeting Minutes,****09-21-2002****Officers present:**

President – Jack Grimmer (N7IHS);  
 Vice President – Jo Hallstrom (KB7UUFM);  
 Secretary – Kim Wolborsky (KD7FYD);  
 Treasurer – Jim Etwiler (KD7BAT);  
 Activity Manager & Relay Editor – Mike Dinkelman (N7WA);  
 Radio Officer - Ken Rau (K7YR)

**Trustees Present:**

Trustee #1 & COB – Brendan Burget (KD7IKV);  
 Trustee #2 – Barry Wolborsky (KC7YB);  
 Trustee #3 – Steve Cook (KD7IQL);  
 Trustee #4 – Position open;  
 Trustee #5 – Alan Hughes (KB7SVU);

The meeting was called to order at 10:00 AM with all members and guests repeating the Pledge of Allegiance at the Salvation Army Building in Renton. Introductions of members and guests were made. The President made announcements regarding taking breaks on the west side of the building at the request of Salvation Army. The coffee and donut fund is self-supporting. We are an affiliated club are encourage to join and support the ARRL. Please sign the rosters at the table. Visitors are asked to refrain from voting on club matters requiring a vote.

**Minutes:** It was moved by Barry (KC7YB) and seconded by Brendan (KD7IKV) to approve the minutes of the previous meeting as printed in the Relay. The motion was approved.

**Officer Reports****President:** Jack (N7IHS):

**Vice President:** Jo (KB7UUFM): New members: John McDowell and Celso Serrano (KF6VTA) were voted in as new members.

**Secretary:** Kim (KD7FYD): Received a bundle of promotional material from SGC, including coupons. Put on table for membership.

**Treasurer:** Jim (KD7BAT): not present

**Activity Manage & Relay:** Mike (N7WA): Today's program will be an introduction to 450 megahertz. Next relay deadline is Oct 11, flea market now Oct 8<sup>th</sup>. Still looking for a chair for the Christmas party! Next month's program: Mike asked our newest ham, John M, what he would like to see, he picked 'how to build a dipole'.

**Radio Officer:** Ken Rau (K7YR): Not present

**Chairman of the Board: Brendan (KD7IKV):** There will be an emergency election today.

**Standing Committee Reports**

Those committees not reporting in the RELAY are asked to report before the General Membership.

**Facilities:** Steve Cook (KD7IQL): Nothing to report.

**Strategic Planning:** Barry (KC7YB): No com-

mittee.

**Technical:** Jack (N7IHS): No report.

**Public Service Committee:** Brendan (KD7IKV): Public service meeting at Yankee Diner immediately following today's program

**Education:** No report.

**Public Service Events:** Gary (KG7KU): Public Service net: Thursday evenings at 7:30 PM on 146.82. For information please see [www.mikeandkey.com/pubserve.htm](http://www.mikeandkey.com/pubserve.htm) or call Gary at 253-661-7882. Sheets are on each table.

**Alligator Award:** Not passed.**Old Business**

None.

**New Business**

To maintain continuity for Treasurer, Jack appointed Jack Burrell as temporary treasurer until the board can act to replace Jim Etwiler. Jim has offered to continue as webmaster. According to bylaw 5.03 the treasurer must have an accounting ability. The board must review this first. The board meeting is next Wednesday. Nominees are Jack Burrell, Carolyn Pasquire.

Bill (KL7BB) handed out and read a page on the Harry Lewis continuous wave method. Harry was presented with a certificate.

Jo (KB7UUFM): Mike Dinkelman (N7WA) is fine example to us all as a serious DXer and contesteer. All of us can upgrade our licenses and operate DX!

Mitch Gill resigned as trustee #4 due to new employment that makes it impossible for him to attend meetings.

Special election: Steve Cook nominated WA7NIW Dick Radford; Jo Hallstrom nominated WA7RUJ Nils Hallstrom. Brendan nominated to close nominations, Sam seconded. Results: Dick Radford will be trustee #4.

Gerhard will be returning to Germany, thank you Gerhard for participating in field day and taking an active interest in our club! Look forward to seeing you next spring.

**Good of the Order**

Harry Lewis thanked Bill. The ARRL official observers assist the FCC when requested. Dan Humphries has just passed the test to be a member of the observers. Harry presented him with a certificate.

There being no further business Sam moved to adjourn and Nils, seconded the motion, Jack (N7IHS) closed the meeting at 10:45 AM.

Attested:  
 Kim Wolborsky, KD7FYD, Secretary

**Board Meeting Minutes,****09-25-2002**

**Officers present:** President Jack Grimmer (N7IHS); Vice President – Jo Hallstrom (KB7UUFM); Secretary – Kim Wolborsky (KD7FYD); Treasurer – Jim Etwiler (KD7BAT); Activity Manager – Mike Dinkelman (N7WA); Radio Officer – Ken Rau (K7YR).

**Trustees Present:** Trustee #1 & COB – Brendan Burget (KD7IKV); Trustee #2 - Barry Wolborsky (KC7YB); Trustee #3 – Steve Cook (KD7IQL); Trustee #4 – Dick Radford (WA7NIW); Trustee #5 – Alan Hughes (KB7SVU).

**Visitors:**

Dawn Humphrey (KC7YYB), Dan Humphrey (N7QHC), Nils Hallstrom (W7RUJ), Chuck (N7BV), Dave Smith (KB7PSN)

The Chairman called the meeting to order at 7:23 pm.

Motion made by Barry Wolborsky (KC7YB) to approve the minutes as amended and seconded by Steve Cook (KD7IQL). The motion passes.

**Officer Reports**

**COB:** Brendan Burget (KD7IKV): Welcome Dick and Jack, and thanks.

**President:** Jack Grimmer (N7IHS): Also welcomes Dick and Jack.

**Vice President:** Jo Hallstrom (KB7UUFM): Jim Walker KN6TC, Barry seconded, passed. James McDonald K9JOM, tech class, (family membership), Barry seconded, passed. Paul McElroy KD7SMB. Barry seconded, passed. John H. Long, Jr. KD7SLM, extra class, ARRL member. Barry seconded, passed.

**Secretary:** Kim Wolborsky (KD7FYD): Nothing to report.

**Treasurer:** – Jim Etwiler ((KD7BAT): Nothing to report.

**Activities Manager:** Mike Dinkelman (N7WA): 11 October next relay due date. Dan Humphrey will assist Mike on October program, on dipoles. Still no Christmas party chairman. **If we don't have a chair by October, the Christmas party will not happen this year.** First flea market meeting is on October 8<sup>th</sup>, letters are ready to go, have just been waiting on the public service committee request for booklet advertisers.

Barry noted that the quality and attendance of the presentations have been great.

**Radio Officer:** Ken Rau (K7YR): Will try to get the repeater up on the hill in the next couple of weeks. The amplifier is ordered but still hasn't arrived. Ken will put the repeater up without it if it doesn't come. There will be a 3db difference from what we have now if he does this.

**Committees Liaison Reports**

**Technical:** Jack Grimmer (N7IHS): Nothing to report.

*(Continued on page 8)*

(Continued from page 7)

**Public Service:** Brendan Burget (KD7IKV): Have drafted a sales letter for ads, have split up tasks for the booklet. Are trying to be cost conscious. Barry is the new chairman. We're making a few changes to the book.

**Education:** Dick Radford ( ): Just appointed. Dick will be submitting an article in the Relay.

**Strategic Planning:** Barry Wolborsky (KC7YB): Tried to contact Sam Sullivan about the procedures manual, Sam didn't respond. Carolyn Pasquier wants to reconstitute the committee, Barry asked Carolyn to get interested members to contact him.

**Facilities:** Steve Cook (KD7IQL): Nothing to report.

**Old Business**

None.

**New Business**

Brendan appointed Dick Radford as education committee liaison.

Steve will be unable to attend the October meeting.

Jack Grimmet: The board just decides whether the treasurer is capable, it doesn't elect him. Jack offered Jack Burrell's name. It would be good to have someone who's done it before to fill out the term, especially since we are coming up on a budget cycle. Jack Burrell isn't interested in running next year, but is willing to fill in until the next election.

Jack Grimmet motioned, and Barry seconded to accept Jim Etwiler's resignation. Motion passed.

Brendan made an emergency declaration that the board approve Jack's appointment of Jack as treasurer to fill out the unexpired term of Jack Grimmet's appointment of Jack Burrell. Motion by Jack Grimmet, seconded by Alan Hughes for the Board to affirm Jack Grimmet's appointment of Jack Burrell to fill out the unexpired term in the treasurer's position. Motion passed.

James Etwiler, Jack Burrell, and Chuck Stroher currently have access to sign checks.

Mike Dinkelman made a motion to allocate the \$500.00 for the frequency defense fund, as we

have kept to our budget. Jim Etwiler noted that we have the funds, Jack Burrell is ok with paying. Motion passes. Barry voted yes, but asked to reconsider, wanted to know why people voted against. After more discussion, motion passed.

Jack Grimmet noted we have a budget to come up with that should be approved at the November meeting. Would like be ready to come up with a budget workup at the next board meeting. All board members should email Jack Burrell with any items they would like to have in the budget. Jack G. also made a suggestion that committees should only get funds when they have a plan, otherwise funds stay in the board general fund, so could be distributed to the committee if they gave a plan. Jack Burrell said this would be ok.

Nils will order the wagon wheel tomorrow morning; Steve Cook will cover for him financially if the treasurer can't.

There being no further business a motion by Barry (KC7YB) seconded by Jo (KB7UFM) to adjourn was made, and the chairman closed the meeting at 9:03 pm.

Attested:  
Kim Wolborsky, KD7FYD, Secretary

**FOR THE RECRUITMENT COMMITTEE**

By Fred, W6TKV

I really don't know if there is such a committee in the Mike and Key Club, but during the August meeting, the matter of membership was briefly addressed. I mentioned a web site where hams could be found grouped by city or zip code, but I mis-named the web address which should have been [www.wm7d.net/fcc\\_uls/](http://www.wm7d.net/fcc_uls/)

Using this tool, a club can recruit new members by a) mailing a club brochure or invitation to 25 per month, b) by inviting local hams to a club event (parade, picnic, etc.). I have also noticed most clubs bemoan the

loss of members, but don't do the most obvious thing - pickup the telephone and inquire how they are, what's new in their lives, and invite them to stay with the club.

For brand new members, why not take a leaf from Kiwanis by giving a new member a bright name tag to wear along with an 8-1/2" x 11" cardboard which he is to bring to the next 2 meetings. Why you ask. Just tell the members they must greet the new member, shake his/her hand and sign his/her card—those who fail to do this are assessed \$1.00, assigned to the donut brigade, charged with post-meeting clean-up, or some other beneficial task.

Just a couple of thoughts for your consideration.

**Registration Fleas**

By Diane, KB7DNE

It's time to think about volunteering for Fleamarket again, and I thought I would put my bid for volunteers early this year. I don't think that a lot of you know how much fun you are missing by not volunteering for Registration. Our little group not only works out at Registration but also we have the Gold Gate and the Orange gate (formally the Yellow Gate.) Registration has three different job types which all tie together.

Gold gate mans a telephone connected to the Registration. They take care of sellers arriving there, most on foot instead of cars. There can be a lot of confusion

that needs to be addressed by Registration. Packets may need to be brought from registration to the Gold gate. We have a lot of Helpers trying to find their Sellers etc. I, as Chairperson, will only be a telephone call away to help with these matters.

The hours I need help at the Gold Gate are from Friday 2:00 PM to 7:30 PM. Of course, it is broken down in shifts with an hour break. Usually it takes two people to do this job on Friday. Saturday, I need people from 5:30AM to 9:00AM. No breaks until 9:00 AM but then you have until 2:30 PM before you are needed to help with loading out. We will provide heat and have a runner (Bicycle Boy) to bring coffee and doughnuts if needed.

(Continued on page 9)



(Continued from page 8)

The Orange gate needs two people Friday from 2:00PM until 7:30 PM (same shift as the Gold gate with all the benefits, breaks, heat, and coffee). Sat runs 5:30AM to 9AM. The person at the Orange gate will have a different set of problems, such as making sure everyone has a pass and directed to registration. About midway between the Orange gate and Registration we will need a person to take down time and license number of all vehicles. That person will hand out everyone a set of rules governing the Flea-market. We expect to have heat there but it is in the open so warm and dry clothing would be a good idea. Of course, our runner will provide coffee and doughnuts if needed.

Now for registration itself. We hand out packets, vehicle passes, sell badges, and tables if available. We help people drop off items for the country store. We take care of all registration issues that come up. We have two to two and half-hour shifts with one-hour breaks in between. Our time is the same as Gold, and Orange Gates.

Most of the people working for registration are the same people all day with breaks. Saturday is real nice because you have from 9:00AM to 2:30 PM to do what you want. At 3PM we need to direct traffic and call in table numbers into the loading doc until we get everyone out. We have a large backup and it takes a couple or more hours to do this Then we clean up our working areas and we are done with registration. When people cannot work all day Friday or Saturday and can only donate a few hours, we use them to fill in for breaks.

I do have a certain group that comes back year after year but still need people to help out as we have been given an additional job of directing traffic across the street from the Orange gate. Most jobs will have an experienced person with you so you won't be all alone not knowing what to do. I do try to go into detail of any job I give to a new person. Of course I do expect all my regulars to sign up again this year. Give us a try—we do have fun.  
Diane KB7DNE, Chairman, Registration

### Some Last Bits

Just a couple words, I really appreciate the input from our newest writers. But it's no fun writing if you don't think anybody is reading what you're writing. In fact, it's downright scary. Please give them feedback and maybe a pat on the back. -...- Next month, the Board will be tackling the budget. Some hard decisions need to be made.

Get your inputs to the Board. -...- Flea market worker signup sheets will appear at the next and all following meetings. Do your share. Sign up! -...- Last month, I blew away my computer's hard drive due to stupidity. That doesn't compare to the stupidity of not having a recent backup (I lost 4000 Q's from my log) . Pardon me if you find your email address is wrong and other silliness as sometimes I'm working from October 2001 data. -n7wa

**The RELAY is the official tabloid of the Mike and Key Amateur Radio Club. The Mike and Key is dedicated to the growth and betterment of Amateur Radio. We meet the third Saturday of every month at the Salvation Army Renton HQ, 720 Tolbin St., near the SE corner of the Renton Airport. The Club operates repeaters on 146.22-146.82 (PL103.5), and 222.52-224.12 under the call K7LED. The Club mailing address is: POB 4234, Renton, WA 98057. All persons interested in Amateur Radio are invited to participate in the Mike and Key Amateur Radio Club and it's activities. Yearly dues are \$12 for individuals and \$18 for families.**

## Club Contacts

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<b>Chair Flea market</b>	Hal Goodell	N7NW	goodellh@gte.net	253-549-4178
<b>Christmas Party</b>				

# October – November 2002

Sun	Mon	Tue	Wed	Thu	Fri	Sat
13 RN	14	15 DA	16	17 PSN	18	19 Club Meeting 10AM  MKN
20 RN	21	22 DA	23	24 PSN	25 CQWW SSB	26 CQWW SSB
27 CQWW SSB RN	28	29 DA	30 Board Meeting 7:15PM	31 Halloween PSN	1	2 CW Sweepstakes
3 CW Sweepstakes RN	4	5 DA	6	7 PSN	8 Relay Deadline	9 Auburn Veterans Day  Contact: N7LEX 425-488-0905
11 RN	12	13 DA	14	15 PSN	16	17 SSB Sweepstakes

**RN – ARES Regional Net, 8PM, 146.82**

**DA – ARES Damage Assmnt Net, 8PM, 146.82**

**PSN – Public Service Net, 7PM, 146.82**

**MKN – Mike & Key Net, 9:15AM, 146.82**

**Contests**

