

E-VOX



The Official **On-Line**Newsletter of the

Lehigh Valley Amateur Radio Club - W30I



Allentown, Pennsylvania USA



Officers

President: Mark S. Miller - WA3KIF (wa3kif@rcn.com or WA3KIF@arrl.net)
Vice President: Jeff Kelly - N3MFT (kellyj@ptd.net)
Secretary/Treasurer: Paul Ryan - N0KIA (n0kia@arrl.net)

Board of Governors

Chris Kelly - N3RPV (ckelly@ckelly.tv)
Barry Mitchneck - KB3FMI (barrym@ptd.net)
Larry Miller - K3LAR (milla@enter.net)
Ed Romig - KD3NH (Silent Key)
Carl Seier - AA3IX (aa3ix@ptd.net)

E-VOX Editor - Mark S. Miller (WA3KIF) (wa3kif@rcn.com) or WA3KIF@arrl.net) Webmaster- Paul Ryan N0KIA) (n0kia@arrl.net)



<u>Repeater</u>

146.340/146.940 (PL 71.9) 147.735/147.135 (PL 167.9)

RACES NET

Every Monday at 7:30 (Local Time)
All are welcome!

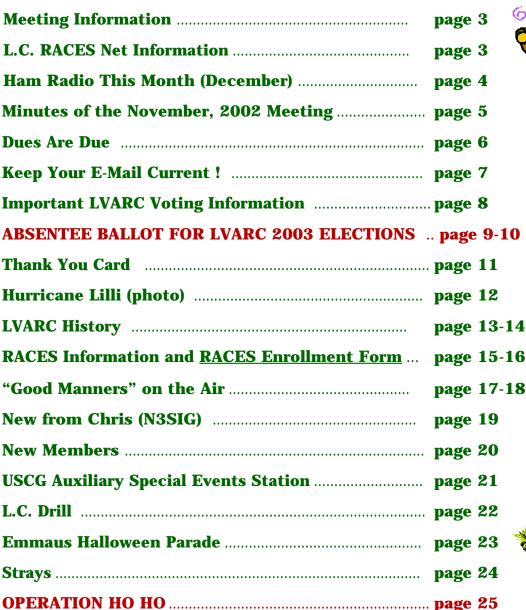


W3OI Home Page: http://www.w3oi.org



E-VOX

December, 2002 Contents







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For Sale page 28



The December Meeting will be held at the Red Cross Building on Tuesday December 3, 2002 at 7:30

Election of Officers and the Annual Holiday Party

LVARC / RACES NET

Don't forget to check into the Monday Night LVARC/RACES Net on 146.94 (PL 71.9) with an alternate frequency of 147.735/147.135 (PL 167.9) The Net begins at 7:30 pm local time.

Many club announcements will be heard there!

Monday Night RACES/ARES Check In Summary 2002 **Number Mondays** Month Number of Check-In's January 83 LEHIGH COUNTY PENNSYLVANIA 4 **February 73** 4 March 80 5 April 81 RACES May **78** 4 5 July 82 August 72 4 5 **September 79 October** 90 4



THIS MONTH IN HAM RADIO

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday					
QRP ARCHI Holiday Spirits Sprint	ARES RACES Net 7:30	LVARC Elections & Holiday Party 7:30				TOPS Activity 80 meter Contest					
Hanukkah											
1	2	3	4	5	6	7					
TOPS Activity 80 meter Contest	ARES RACES Net 7:30										
8	9	10	11	12	13	14					
ARRL 10 Meter Contest Operation Ho-Ho 15	ARES RACES Net 7:30	17	18	19	AGB Party Contest	21					
	ARES RACES Net 7:30	Christmas Eve	Christmas Day	DARC Christmas Contest		RAC Winter Contest					
22	23	24	≥≈≈ 25	26	27	28					
Original CW QRP Contest	ARES RACES Net 7:30	New Year's Eve	Hap Holid	py lays							

Tuesday January 7, 2003 - LVARC Meeting at the Red Cross Bldg. - 7:30 pm - HAPPY 2003!



Discussed at the November, 2002 Meeting - Not the minutes Just a Review

The November meeting of the LVARC was held at the Red Cross Building on Tuesday November 5,2002. The meeting was brought to order at 7:35 pm

- 1. Guests included Frank Unger (W3FTU). TNX Frank for picking up the pizza !!!!
- 2. In Paul's absence, Mark reported a balance of \$548.80 in the treasury as of 10/31/02.
- 3. Mark announced a date of **Sunday December 15 at 10:00 AM for Operation Ho-Ho, 2002!!!!** Mark called for Volunteers !!!
- 4. The club decided on 3 ways to vote for LVARC officers for 2003. (see pages 8-10)
- 5. The holiday party will be held at the Red Cross Building on Tuesday December 3. Please bring your favorite dish to share with the group.
- 6. Mark showed a thank you note from Mrs. Romig.
- 7. Paul is looking into a power supply for the club's HF rig.
- 8. Mark is looking into a place for a dinner meeting in February, Greg (KB3CKD) suggested that we invite Eric Olena (SM for PA) as our guest at the meeting.
- 9. The LVARC is still looking into a possible VE program. Dick (KA3MOU) and Carl (AA3IX) will report on the scheduling of possible sessions.
- 10. Mark reminded members that the club will place an order to the ARRL and members are invited to gather their orders and we will submit as a group. That means, no shipping will be charged to members. Orders MUST be received NO LATER than the December 3, meeting.
- 11. Carl (AA3IX) moved to close the nominations for officers. The motion was seconded by Carl (WK3C).
- 12. Mark (WA3KIF) reported that Paul (NOKIA) indicated that the club can function without a raise in dues for 2003. (see page 6).
- 13. The meeting was adjourned at 8:22 pm.
- 14. The 50/50 drawing was won by Mark (WA3KIF) for the amount of \$11.00.

\$\$\$ W30I Finances \$\$\$Balance as of 10/31/02 \$548.80

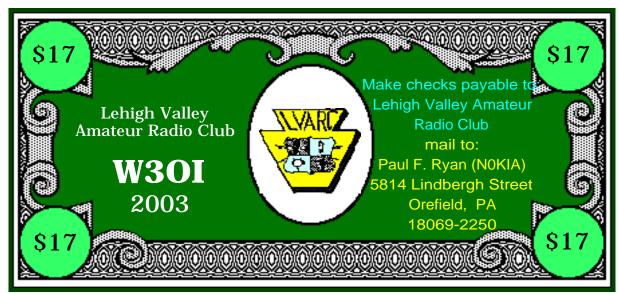


DUES ALREADY??

Ok, how much and what do I get for my money?

The dues for the 2003 fiscal year will **remain at \$17.00 for active member**, **\$3.00 for additional family member** and **\$5.00 for non-hams**. This means **NO INCREASE IN DUES FROM LAST YEAR !!!!** What do you get for your money?

- (1) access to the autopatch on the 135 repeater
- (2) a terrific Field Day site with great food
- (3) monthly On-Line or hard copy (if you request) newsletters
- (4) maintenance of the best amateur radio club web site
- (5) pizza at selected meetings
- (6) members security (liability insurance) while participating in LVARC activities
- (7) coffee and donuts at meetings (actually, K3LAR has been donating all this time).
- (8) an opportunity to place an ARRL order with NO shipping charges
- (8) the opportunity to keep the club growing and prosperous!!
- (9) additional plans in the works!!







IMPORTANT: Occasionally, I send out e-mails to LVARC members which alert you of up-coming events/activities or W3OI club business. I have received some undeliverable messages. **If you have not received any e-mail messages from me in the past several months of if you are unsure if I have your correct e-mail address, please send me your e-mail address just to be sure.** Don't miss out on notices of activities or club business!!! E-mail me your address today (wa3kif@rcn.com or wa3kif@arrl.net).



JUST for LAUGHS

A man brought a very limp dog into the veterinary clinic. As he laid the dog on the table, Doctor Buck pulled out his stethoscope, and placed the receptor on the dog's chest. After a moment or two, the Doc shook his head sadly and said, "I'm sorry, but your dog has passed away." "What?" screamed the man. "How can you tell? You haven't done any testing on him or anything. I want another opinion!" With that, Doc turned and left the room. In a few moments, he returned with a Labrador Retriever. The Retriever went right to work, sniffing the poor dog on the table and checking him out thoroughly. After a considerable amount of sniffing, the Retriever sadly shook his head and went, "Woof." The veterinarian then took the Labrador out and returned in a few moments with a cat, which walked around the poor dog several times and then sadly shook his head and said, "Meow." He then jumped off the table and ran out of the room. The veterinarian said, "There's nothing more I can do." He handed the man a bill for \$600. The dog's owner went postal. "Six hundred dollars?!?! Just to tell me my dog is dead? This is outrageous!" Doc shook his head sadly and explained, "If you had taken my word for it, the cost would have been \$50, but with the Lab work and the cat scan ...



ELECTION OF LVARC OFFICERS FOR 2003





Election of officers will be held at the December 3, 2002 meeting.

See VOTING INSTRUCTIONS ON PAGE 9

Ballots MUST be received **BEFORE the December 3 meeting.**



INSTRUCTIONS FOR VOTING

There are THREE ways to vote for officers of the LVARC who will serve for the 2003 year.

- 1. Vote via paper ballot at the December 3, 2002 meeting
- 2. Vote via e-mail to Rod (KB3HFZ) rjwolfe@rcn.com
- 3. Vote via US mail:
 - (1) print the ballot on page 10
 - (2) Complete the ballot
 - (3) place the ballot in a **BLANK ENVELOPE**
 - (4) PLACE THE BLANK ENVELOPE IN ANOTHER ENVELOPE and mail to:

Rod Wolfe, Jr. (KB3HFZ) 1134 4th Street Catasauqua, PA 18032

If you cannot print the ballot, contact Mark (WA3KIF) 5508 Hale Avenue, Bethlehem, PA 18017 (wa3kif@rcn.com) for a ballot.



LVARC ELECTION BALLOT FOR OFFICERS FOR 2003



President (vote for one) Mark Miller (WA3KIF) Greg Kovacs (KB3CKD)
dreg Rovaes (RESCRE)
Vice President (unopposed) _X Barry Mitchneck (KB3FMI)
Secretary (unopposed)
Treasurer (unopposed)
X Paul Ryan (NOKIA)
Board of Governors (vote for <u>FIVE - 5</u>)
Carl Seier (AA3IX)
Larry Miller (K3LAR)
Bill Bigg (KA3RBH)
Chris Kelly (N3RPV)
Robin Gable (KB3GZV)
Bruce Bobo (KB3FIH)
Malcolm McClay (N3XRL)
Jim Kelly (KA3UQP)



Nice Thank You from Ed's (KD3NH) Wife

de WA3KIF

I received a nice thank you card from Mrs. Romig and thought I would include it in the newsletter. Below, is a copy of the inside of that card.

Dear Ration Clark of Riends,
Thank your four your Support at the viewing and for the beautiful plant. Some saw it libere.

Perbaps you sent a lovely card.

Or sat quietly in a chair.

Perbaps you sent a floral piece.

If so we saw it libere.

Perbaps you spoke libe kindest words,

As any friend could say:

Perbaps you were not there at all.

Just thought of us that day.

Whatever you did to console our bearts.

We thank you so much whatever the part.

By the family of

Edward R. Rong.

Thank you for the nice card Mrs. Romig. It was our pleasure!



Water Spouts Courtesy of Hurricane Lilli

(Taken from an oil rig in the Gulf Coast - September, 2002)

Photo sent via email from Bob Green (KE3AW)



TNX Bob for a fantastic picture showing the power of Mother Nature!!

Outlook Express Patch - de Bob (KE3AW)

If you operate Outlook Express and have not downloaded and installed the patch to prevent hackers from entering your computer, here is the site to get it!

http://www.microsoft.com/technet/treeview/default.asp?url=/technet/security/bulletin/MS02-058.aspty/bulletin/MS02-058.asp



LVARC HISTORY on "The Net!"

de Bob Green (KE3AW))



Bob (KE3AW) sent me a web site via e-mail. I get many sites to visit from Bob and I never know what to expect. Imagine my surprise when I looked at the latest web site's contents. Kenneth Barber (now K2DTC) is a ham with his own web site. What's so interesting about that, you ask? Well, Kenneth grew up in Allentown and has some good history about the LVARC. I am including some of the text and pictures but I urge you to visit his web site for yourself and see all the pictures. Ken's URL is:

http://mywebpages.comcast.net/kenw2dtc/kens-radio-history-page.htm.

W2DTC'S RADIO HISTORY

de Kenneth

HOW IT ALL STARTED: For some unexplained reason I had a serious interest in all things electrical, unexplained because neither my parents, my brother nor any other relatives had this interest. As a school kid I had a special interest in old radios and my neighbors used to give me their old broken radios for parts. Sometimes I would simply replace the tube that didn't light, the radio would play and my neighbors thought I was a genius. One afternoon I was tuning one of those old mahogany console radios with the green eye tuning tube and I heard this guy in a casual conversation as if he were right beside me in the basement. His chair was squeaking and I heard his wife come down their basement stairs. I got nervous. I called my dad to come down to our basement and listen as I thought I was eavesdropping on something I shouldn't be hearing. After a few minutes my dad said he thought it was ham radio. My interest was peaked. A week later my dad saw an ad in the local Evening Chronicle Newspaper placed by the Lehigh Valley Amateur Radio Club (LVARC). The club said it was starting Amateur Radio code and theory classes at the Civil Defense building on Sumner Ave. in Allentown, Pa. I jumped in with both feet, I studied hard and with the help of the LVARC radio guys I was able to obtain my Amateur Radio License.

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(continued from page 13)



Ken's

State Council of Civil **Defense** card.

(look familiar?)

1956

(left)

Ken's Transmitter

1958

(right)



Ken's Elmer

LVARC's own **Henry Mohr** (W3NCX)!

One of the LVARC Founders and life member. Henry still gets the VOX mailed to him!

(left))









In the November issue of the E-VOX (November, 2002 pages 10-12) we defined RACES (and ARES) and discussed the history, meaning and operating procedures of a RACES station.

Many operators check into the Lehigh County Races/LVARC Monday Night Net (held each Monday evening at 7:30 local time on the "94 machine)." This net is open to all amateurs, HOWEVER, should there be a need for the county to deploy RACES operators, only those registered with the county may participate!! An operator MUST be a RACES member to participate in RACES activities.

Becoming a RACES member is easy. You simply complete the RACES form and submit it to Jeff Kelly (N3MFT). Jeff is the Emergency Coordinator (EC) for Lehigh County and registers all L.C. RACES applicants. The application form for joining RACES is on the club's web site and is also presented on the following page for your convenience. Remember, there is NO FEE to become a member of L.C. RACES. Although many LVARC members are also RACES members, you need NOT be a member of the LVARC to be a RACES member.

If you are **not yet enrolled** (you need only register once) **and would like to become a member** of Lehigh County RACES, print and complete the application form on page 15. Mail your completed form, via US mail to:

Jeff Kelly (N3MFT) 1632 N Main Street Allentown, PA 18104

After Jeff has processed your application, you will receive a membership card which you must have with you when participating in a RACES event.



Lehigh County RACES Application Form

Name: _	ame:				Call;						
Address	s:										
City:				State:				Zip: County:			
Business Phone:				Home Phone: _							
License	Class: _		P	rimar	y Rac	dio In	teres	t:			
	160	80	40	20	15	10	6	2	220	440	
CW											
FM											
RTTY											
SSB											
Mobile											
Packet If opera	ating pa	acket	, the	calls	ign c	of you	ur PE	BBS i	s		
Can your If yes, w	hone op	erate nds?	witho	ut con	nmerc	cial po	wer?	[]	yes [
Digited.								_			
	MAIL TO: Jeff Kelly (N3MFT) 1632 N Main Street Allentown, PA 18104										



"GOOD AMATEUR PRACTICE" MEANS NEVER HAVING TO SAY YOU'RE SORRY

FCC Special Counsel Riley Hollingsworth has endorsed a list of several points that he feels help to define the concept of "good amateur practice." Section 97.101(a) of the Amateur Radio Service rules refers to "good engineering and good amateur practice"--considered to refer to maintaining the highest standards of engineering and on-the-air comportment. But the rule lacks specifics.



"Good amateur practice is a hard thing to define," Hollingsworth conceded. "I'd have to say it's operating with the realization that frequencies are shared, that there's going to be occasional interference and that's no reason to become hateful and paranoid."

Hollingsworth says amateurs have to realize that more people than ever are listening in, especially since September 11, 2001, and that amateurs always need to remember that "our rights end where another person's begin."

A Michigan Amateur Radio club has been credited with distributing a list of "Riley-isms" culled from Hollingsworth's various talks at conventions and hamfests and club meetings around the US. Hollingsworth--who verified that he had been cited accurately--says his various comments represent an effort to flesh out what "good amateur practice" consists of for considerate the Amateur Radio operator. According to Hollingsworth, good amateur practice means:

- * giving a little ground--even if you have a right not to--in order to help preserve Amateur Radio and not cause it to get a bad name or hasten the day when it becomes obsolete.
- * respecting band plans, because they make it possible for every mode to have a chance.

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- * being aware that we all love Amateur Radio, and there's no need to damage or disgrace it just to save face.
- * keeping personal conflicts off the air. Settle your arguments on the telephone, the Internet or in person. Just keep them off the air.
- * cutting a net or a contester a break, even if you don't have to and even if you have no interest whatsoever in nets or contesting.
- * realizing that every right carries responsibilities, and just because you may have a right to do certain things doesn't mean it's right to do them in every circumstance.
- * you don't "own" or get preference to use any frequency.
- * not operating so that whoever hears you becomes sorry they ever got into (or tuned in on) Amateur Radio in the first place.

Hollingsworth notes that the list "doesn't touch on a lot of other technical issues, such as using 1500 W when your signal report received is 40 over 9." Good amateur practice, he said, "just means a lot of things that can't always be quantified."-- **thanks to Riley Hollingsworth**

From

The ARRL Letter Vol. 21, No. 40 October 11, 2002



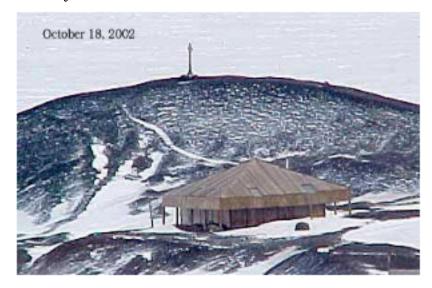
KUDOS to Paul (NOKIA) for the <u>NEW LOOK</u>
of the LVARC web site!! Visit the
site and see the changes!
http://www.w3oi.org



News from Chris

13 Oct. 2002

I took a short walk to Capt Scott's hut that was used during the Discovery Expedition of 1902, a Short walk from McMurdo is where the hut sets, nestled against the hills that now surrounds the area we call the ice pier. This is where the ships offload our fuel and a years worth of supplies in January.



Capt. Scott's hut that was used during the Discovery Expedition of 1902



Chris inside the hut





Did you see any lost reindeer from the North Pole down there, Chris?



The US Postal Service

de Clarence (W3PYF)



I don't understand these complaints about the postal service. Time was, you could put a two-cent stamp on a letter, mail it and it would arrive at its destination in two days.

Now you put a thirty-seven-cent stamp on a letter and it can take four to six weeks to arrive. . . . Still only a penny a day!"

(Perhaps Clarence, the mail is slow because of all the holiday mail!)



Feeling a little cramped? Need to get out?

Come to the LVARC

"Holiday Meeting"

on Tuesday

December 3, 2002

at 7:30 pm!

Bring something to share with the group!



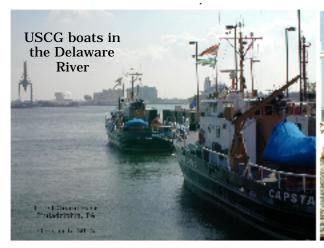
E-VOX

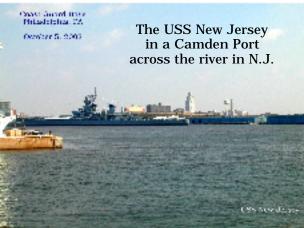
United States Coast Guard Auxiliary Celebrates Anniversary de WA3KIF

On Saturday October 5, 2002, Larry (K3LAR) and I attended a special events station commemorating the 63rd anniversary of the US Coast Guard Auxiliary. The station (KG3) was set up on the Coast Guard Base in Philadelphia. It



included two HF stations and one VHF/UHF station. We were invited to operate and made a few contacts for the group. It was a beautiful October day and we were allowed to roam the station, eat in the "mess" and view the wonderful sights along the Delaware River!!









The QSL



Lehigh County EMA Holds Drill



On Saturday October 19, the Office of Emergency Management held a drill in the Lehigh County. The drill scenario involved a charter plane from Pittsburgh which crashed at the Lehigh Valley International Airport due to faulty landing gear. There were 47 persons on board. The drill began about 9:00 am (local) and ended about 12:00 pm.

Lehigh County agencies who participated included the Lehigh Valley Hospital Center (Cedar Crest and Muhlenberg), St. Luke's Hospital (Bethlehem and Allentown) and the Red Cross. also involved were Trans Bridge Bus Lines and US Air personnel. RACES played an important role in the drill, providing communications support for the hospitals and agencies involved.

Operators who participated in the drill included Bruce (KA3ONZ), Greg (KB3CKD), Chris (N3RPV), Mark (WA3KIF), Bob (KE3AW), Paul (N0KIA), Bill (KA3RBH), Jim (KA3UQP), Bruce (KB3FIH) and Jeff (N3MFT) with Malcolm (N3XRL), Barry (N3NVA) Robin (KB3GZV) checking in.

Following the drill was an impromptu "critique" of RACES by the drill's participants.

TNX to all who participated !!!

The Lehigh County RACES team is to be COMMENDED !!!!!!



EMMAUS HALLOWEEN PARADI



Saturday evening, October 19, was cool, dark, and threatened by rain, but ultimately it turned out to be a nice night for a parade. The Emmaus Halloween Parade was held in grand style. An estimated 1600 marchers, up 30% from last year's participation, enjoyed the evening.

A total of 19 amateur radio operators helped with parade communications. At net control was Bob/N3QQ, stationed with the parade marshal.

Additional radio operators in vehicles were Mitch (WA1LLD), Glenn (N3ULW), Jill (N3ZSR), Jim (KN3DZY), Dick (KA3MOU), Bruce (KB3FIH). Mark (WA3KIF), Larry (K3LAR). Malcolm (/N3XRL), Bill (N2DH), Thalia (KB3CSR), Joe (KE3DZ), Joe (W3JD), Barry (KB3FMI), Paul (N0KIA), Bill (KB3RBH), and Bob (KE3AW).

Rich (KB3DEC) provided additional coverage as "pedestrian portable."

Thanks to all the operators for the time and service in this activity. The Emmaus Halloween Committee expressed their appreciation with verbal thanks, as well as with a generous cash contribution to DLARC.

An extra touch is deserving of note: Jill (N3ZSR) supplied jack-'o-lantern headlight masks for all the vehicles.

Following the event, most of the team reconvened at the local Bob Evan's Restaurant for a Dutch Treat and conversation to round out the night.

Thanks to the W3OI club for the use of the repeater [146.94/34].



E-VOX

S-t-r-a-y-s

Carl (AA3IX) is looking for the manual for an **ADI 147 2-meter radio**. If anyone can help Carl, contact him at: **aa3ix@ptd.net**.





LVARC members enjoyed pizza before the November business meeting!

Around the world, Santa Claus is known as:

English - Kris Kringle Dutch - Saint Nicholaas Italy - Bobouschka Germany - Befana





Chanukah, the Festival of Lights, is a celebration of the victory of the Maccabees and the rededication of the Jerusalem Temple. It also commemorates the miracle of the oil that burned for 8 days

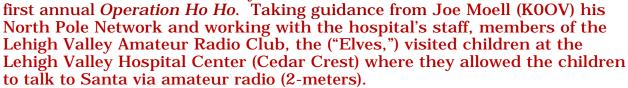


E-VOX

Operation Ho Ho to be Held this Month! ** HELP WANTED **

de Mark (WA3KIF)

Operation Ho Ho will be held on **SUNDAY DECEMBER 15 at 10:00 AM and volunteers will be needed!**. The 2001 holiday season saw the



Armed with HT's and the names of the children, Elves entered their rooms and told children that they could talk to Santa and ask him any questions they had. After speaking to Santa, who was in a separate room, the children received a button which stated that they "Talked to Santa By Amateur Radio," a small toy and a candy cane. The elves told me that the expression on the faces of the children would be something they would remember for a long time!

We have a commitment. Please don't let the kids down! WE NEED YOUR HELP!

VOLUNTEER A FEW HOURS OF YOUR TIME! Hours that will last you until the 2003 season when you can do it all over again!!





N8UT ON ELMERING

Submitted by Greg (KB3CKD)

"Elmering" is a dying art. It has changed and many (not all) of the old Elmers are either silent keys or they are refusing to participate in teaching the "no-code" hams; because they disagree with the current testing methods. Elmering is **more important** now than ever before. It is also more *difficult* than before.

In the past, you were *forced* to get help from an Elmer *before* you got your license. Today you get your license *first* and then you are *briefly* curious enough to still be receptive to teaching. We only have about a 90 day window of opportunity. If a teacher does not offer the new ham the opportunity to be taught, the opportunity is soon lost. Why some of the old Elmers can't grasp this fact is beyond me. They complain about the lack of technical and operating expertise in the new hams and then refuse to teach them!! Go figure

What I do see developing is a new generation of Elmers. Most of them are not highly knowledgeable on many of the technical aspects. They generally know something of antennas, feedlines, propagation, several different modes of operation, and good operating procedures. What is important is that they understand that elmering is necessary *after* obtaining a license and they are willing to teach the new hams whatever they may happen to know. They don't look down on anyone. They are a breath of fresh air. I applaud their efforts. I also applaud the older Elmers who continue to teach and support the Amateur Radio Service, whether they agree with the licensing system or not.

It is my considered opinion that if the levels of technical and operating expertise in the Amateur community continue to fall in this age of electronic consumerism, the blame lies squarely on the shoulders of many of those most qualified to teach. I have a real problem with that group of unreasonable, elitist, "technical snobs" who refuse to teach any more because they disagree with a testing system. It's their choice ... their legacy.

My comments to that elitist group are: "GET REAL!! WAKE UP!!! THE WORLD HAS CHANGED!!" In today's fast paced, affluent society, we do not *have* to build an analog rig to communicate! Forty, fifty, or even 60 years ago there was little on the market in the way of equipment.

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What was available was very expensive. Time was plentiful and analog parts were everywhere.

Technologies were fairly simple. Building your rig was the order of the day.

Today there is a wide range of equipment available and it is relatively cheap. It is fairly high-tech and beyond homebrewing. We can buy the necessary technology to enjoy Amateur Radio. Money is a readily available and replaceable commodity today... time is not! People are very jealous of their time in today's world. We are not in an economic depression with lots of unemployed time to burn. Today's ham is going to buy his rigs, antennas, tuners, meters and other gear . . . not build antiquated analog equipment. The elitists scream that anyone who doesn't know how to build doesn't have the character to be a "real" ham. I suggest that a lack of high levels of technical/building expertise does not constitute a reasonable basis on which to judge a person's character.

Today's ham is going to continue to fight against the high speed code licensing requirements that sometimes consume years to master. The reason for that debate is, again, *time*. I have yet to meet a new ham who was against learning the code. The vast majority think it should remain a part of Amateur Radio, they are aware of the treaty requirements regarding the code, and they are willing to learn it. They are also nearly universal in their disapproval of the high speed code requirements for license class advancement. The reason? Nearly always . . . *TIME*. Once more the elitists raise their voices and inexplicably find it in their reasoning pattern that if you can't/won't do code at high speed, you do not possess the character to be a "real" ham. Horse Hockey!!

The new ham is a hardy breed. All this negativity does not diminish the new ham's interest in proper operation or in public and emergency service. That is one area that the new ham *knows* he can participate in. The new hams take the training, they show up, they do the job and they do it well. They seem to instinctively understand that this is what it's all about. The elitists aren't there. I ask, "Who is the 'real' ham?"







- (1) Kenwood TS-830S with MC 50 Microphone
- (2) Kenwood TR-7950 and TR-7930 2-meter FM Transceivers
- (3) Astron 13.8 volt-12 amp Power Supply
- (4) 2020 dual band wattmeter
- (5) Kenwood SP-230 speaker
- (6) Heath "Cantenna" (dummy load) Model HN-31
- (7) 200 new boxed radio tubes





For information, contact:

Florence Stefanik 650 Passer Road Coopersburg, PA 18036 610-282-3137





