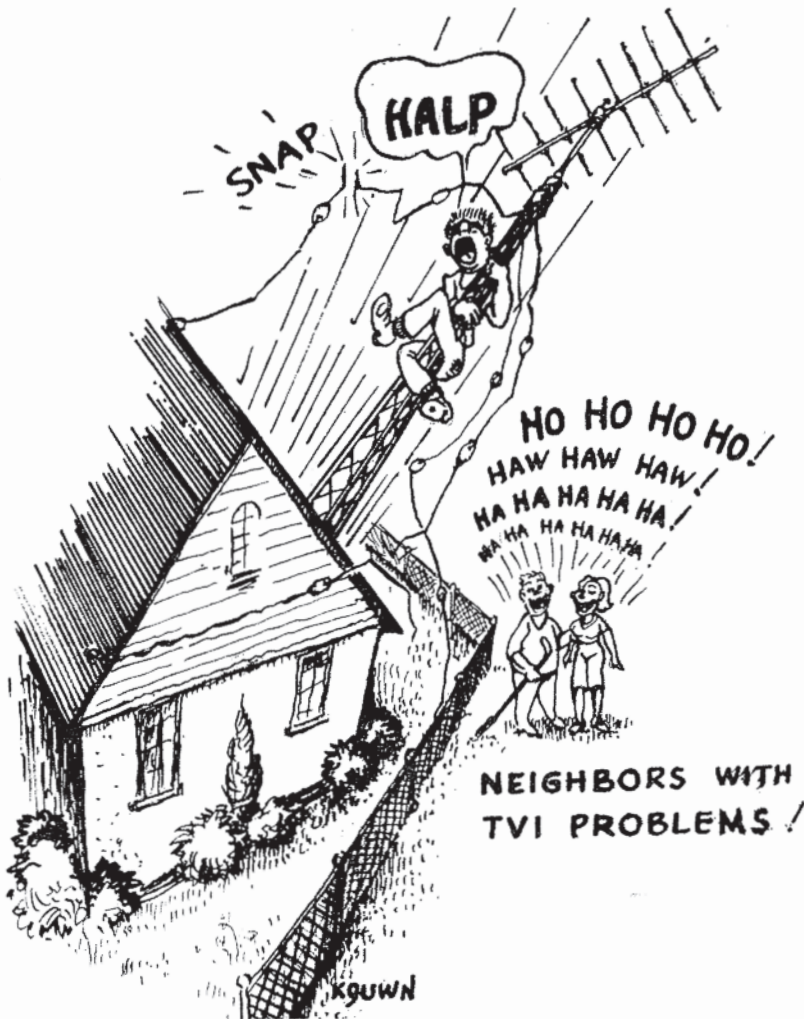


Ham Rag

Rockford Amateur Radio Association

March, 1982



President's Log

AMIGOS - Another month in the new year has gone by, the snow is melting and another round of *Hamfests* is beginning. I heard that a few of the local "big spenders" came home with some new gear and some used gear, hopefully no boat anchors.

I understand that Dale-KC9BN bought a TS130 to use while mobiling. However, he thinks it is an experimental rig since it has a habit of wandering all over the bands with out even tuning it. Guess even the Japanese have their production problems.

On February 23rd, RARA had its **NOVICE INFORMATION NIGHT** at the *Harlem Community Center*. I believe 12 prospective students came to the center along with a good group of members to provide an insight to Amateur Radio. Ed Schott/KA9IMZ presented a movie on the various aspects of our hobby. Russ-WD9FV1, Gene-AK9N and Steve/KB9IW displayed several pieces of Amateur gear. The entire program, I thought, was very good. Only one thing (person) caused some concern. Our greedy Treasurer took off with the centers coffee money. However, he was apprehended using 2 meters before he could sock it away in our club sock. Nice try Dale.

Novice classes began on March 2 and I would like to have some of you licensed hams act as "ELMERS" for this class. I don't beleive it would take much of your time to lens a hand in helping these new novices, if they ask. It would also show the clubs interest in them, and possibly a little different explanation of a point may be all it takes to keep someone from getting discouraged.

I see Shari-WB9SFT is back on her feet after a short stay in the hospital. We all wish

her a speedy recovery. Her **OM-WB9MMM** is the happiest. Seems he can't stand his own cooking. If any of you know of any sick members, please let Moe/N9CCE know so he can mail a card and it can be put in the **RAG**.

AWARENESS DAY is fast approaching. Volunteers get ready. Antennas will go up the weekend before (*March 13 a.m.*). More details are on page 7.

Our auction was a sucess. RARA collected close to \$70.00. Steve/KB9IW did an excellent job as auctioneer. I appreciate the fine effort by him and all those who brought items to sell. I was also pleased to see the visitors from Freeport stop by, and hope they come again.

The March meeting program will be on computer basics. What will they do, why, what does the operator need to know, etc. The program will be chaired by "THE **COMPUTER STORE OF ROCKFORD**" on Auburn Street.

DUES ARE DUE. \$10 single person, \$5 for students and retired persons, family is \$10 for the first person and \$5 each thereafter, and Associate members \$5. The March **HAM RAG** will be the last one you will get if you are not paid up. Besides - we need the money.

Good DX, Rag Chewing and / or Contesting. ■

**ODD-de-OSS
EL PRESIDENTE
FRANK-KB9KH**

Frank

Editor's QRM

I have often been asked why I don't work DX and usually I just give a fast, off the cuff, answer. Well, a couple of weeks ago, an unnamed person was winding my clock on the subject of DXing with a story about his/her exploits. It seemed he/she had confirmed 103 countries (*not actual number or equipment*) with a dipole, a small tri-bander and 100 watts. I smiled politely and excused myself before losing my temper. This person is lucky to have worked 70 of the 103. The rest are the result of a mono band beam and a lot (*more than legal*) of power.

Excerpts taken from rule 12 of the ARRL DXCC list say, "*Fair play and good sportsmanship in operating are required. In the event of specific objections relative to continued poor operating ethics, an individual may be disqualified. Credit for contacts with individuals who have displayed continued poor operating ethics may be disallowed. This includes confirmation procedures.*"

I have often heard a big gun station break a pile-up, then return using the call sign (or portion of) of some little guy. The DX station then gives a 5/9 report to a station and may not be able to hear.

"Everybody does it," you say!

Garbage!!! If you work a rare station, break your own pile-ups. If you intend to tell the world you got your DX on 100 watts, then do it. This practice is wide spread and growing and it is despicable.

Where is your pride? Where is our self policing? This practice is not only unethical, but illegal. ■

-73, K19F

Jim

ROCKFORD AMATEUR RADIO ASSOCIATION, INC. P.O. BOX 1744, ROCKFORD, ILLINOIS 61110

OFFICERS		1982	DIRECTORS			
President	Frank Hirsch	KB9KH	397-6966	Bruce Hamilton	KB9OW	963-6606
V. Pres.	James Ambruoso	WD9FVF	654-3620	Frank Baker	WB9OGD	623-2008
Sec'y	Maurice Bolte	N9CCE	877-5439	Zygmunt Podgomy	W9MOS	968-1244
Treasurer	Dale Mather	KC9BN	399-2002	Gene Melton	AK9N	654-0675
HAM RAG Editor			Associate Editors			
	Jim Milhone	K19F	633-9235	Jim Ambruoso	WD9FVF	654-3620
Distribution Manager ★ Photos & Layouts				Gene Melton	AK9N	654-0675
	Carol Holmes	K19G	633-3249	Dick Steinhauer	N9UN	397-6653
Circulation Manager				Gertrude Kindell	KB9PC	963-4050
	Dale Landis	KB9WD	633-0520	Gene Harlan	WB9MMM	398-2683
Artists				Gene Duncan	K9IKP	393-4751
	Jack Stuman	K9UWN	399-3890	Dennis Eksten	W9SS	877-6768
	Bob Davidson	WA9NTT	877-6274	I. M. Lippy	?????	??????
	Gertrude Kindell	KB9PC	963-4050	Henry Choke	?????	??????

CQ Contest

Stale crackers, warm beer, cold coffee, sun rising over the dupe sheets at 1240Z. Falling asleep in front of the boss at 10:30 Monday morning, trying to copy call signs from a ringing telephone bell — yes, it must have been a contest weekend. Many thanks to Russ-N9AUZ, Gary/K9LJN, and Jack/AA9Q for donating a part of their lives to the cause. We finished with not quite 500 contacts and almost 300K points. More than likely good enough for last place, but a good time was had by all. This nonsense took place during the **ARRL International DX Contest**, CW version, February 20 and 21. Jack/WD9DBC, also took part as a single operator from his own QTH, totaling approximately 360 QSO's and 160K points. I do not believe there were any other locals on since we did not hear any, but ships are known to pass in the night. Especially at 4 a.m. on 80 meters.

There are undoubtedly those of you out there who would like to give contesting a try but cannot or do not want to devote a whole weekend to it. The perfect opportunity is coming up with the **April Open CD Party** (ARRL sponsored). The contest is for the ARRL members only (sorry about that League haters) and the exchange consists of your appointment (from member up to what ever) and your ARRL section (Illinois for those who have not been paying attention). The period runs from noon to midnight, although only ten of the twelve hours can be devoted

to operating time. Phone is April 3 and CW is April 17. More information on page 82 in March QST. Once again a good time to look for some of your missing states for WAS.

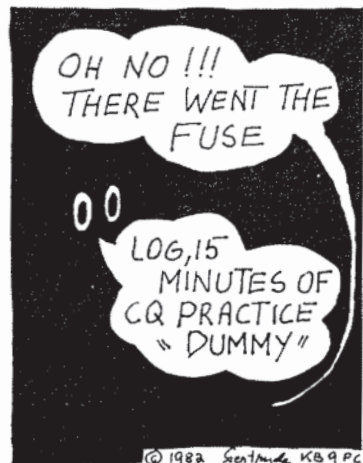
If chasing after rare and unusual prefixes is your cup of tea, the **CQ World Wide Prefix Contest** is the 27th and 28th of this month. This contest is guaranteed to bring out of the woodwork some of those prefixes that are hardly ever heard on the air. The only difficulty is determining where some of those birds roost.

Congratulations are due to Dave/WB9HPV, for his success at QRP contesting. See **I.M. Lippy's** column for more details. Imagine how enjoyable 20 meters would be if 10 watts input was the law of the land.

Code proficiency drills are transmitted from WB3IVO, Brass Pounders ARC (Maryland near Washington DC) each Saturday and Tuesday starting 0200Z on 3560 Khz. Each Saturday and Sunday starting at 0200Z on 7060 Khz. Monday thru Friday starting at 1930Z on 14060 Khz. The speed ranges from 20 to 60 WPM. The preceding information was taken from the March issue of *World Radio*.

That seems to be all that there is in this typewriter for this month. I will be looking forward to seeing you at the next club meeting. ■

-73, Gene AK9N



CQ DX

Hi gang. Here we are again, March 1982. The band conditions have been pretty good. Lots of the RARA gang has been working DX. Ten is open as well as the other bands. Yes, we are having our ups and downs as the cycle declines. Keep in mind that the down hill trend is slower than the up hill side of the cycle. So keep tuning and listening to cycle 21.

Work the contests as much as possible. They can help you work many new countries needed for your DXCC list. For those who are looking for DXCC in a hurry, Jack/WD9DBC showed the way in a recent World Wide CW CQ Contest working the following 87 countries, 14 of which were QRP: C6A, CE, CP, CT, CT3, DK, Y33, EA, EA8, EA9, EI, EL, F, FM, FO, G, GI, GM, GU, HA, HB9, HC, HH, HK, HR, I, JA, KL7, KP4, KV, KH6, KH0, LA, LK, LU, LX, LZ, OA, OE, OH, OH0, OK, ON, OZ, PA, PJ, PY, SK, SP, SV, TF, TG, TI, UA1, UA0, UK2P, UK7, UQ2, UW6, UB5, UK2W, UR2, UM8, UF6, VK, VP2A, VP2E, VP2M, VP5, VP9, YU, YO, YB, YV, ZB, ZE, ZF, ZP, ZS6, ZD, 4U1N, 4Z4, 5T, 6Y, 9Y4, HB0.

Always be patient and do your best. Keep those SASE envelopes in at the W9 QSL Bureau. Pretty soon

they will come back filled to your mailbox, I always have lots of fun seeing what I got for QSL cards. Lots of surprises.

There was a lot of activity in late January and early February. It is getting hard to get all the information to see who worked what and where. The list is long.

Recent operation of KF1O/CE0X-San Felix is being questioned by the league and the Radio Club of Chile. KF1O is reported to be going to the ARRL and try to get things right, but it looks very negative as the government of Chile says they did not authorize operation. So work the stations and worry later if they will count or not. One down for K9IKP. HI!

Y11BGD-Iraq is active again, mostly 14.215 SSB in the mornings. I1KFB is taking lists. Y11BGD was put on a few years ago after many years of no activity. I can remember when it first came on, Dennis/W9SS wrote to OE6EEG and got our calls on the list. I remember the contact to this day. So be patient and keep tuning.

FB8WG-Crozet has apparently gone QRT.

8Q7AV-Maldive Island is open every P.M. on 14 SSB.

WORKED OR HEARD

HZ1AB	0454	14.225	
Z2IEF	0456	14.203	
LU3EHT	0457		KI9G
W6KG/PZ1	0458		
ZS4PB	0502		
9L1DR	2228	14.234	LUX/OW
ZB2GR	1752	28.607	
3C0BC	1315	21.310	K9LUX
T2GMM	0600	14.210	
WB0MKR/KH3	0530	14.210	
LU5ZI	0300	14.213	LUX/OW
ZK1CG	0500	14.213	
8Q7AV	0130	14.210	KB9LN

9K2EW, VK9YB, CN8BX, XF4MDX, ZL4OY/A, 3D2ER, 8P6NE, HL1AF, JW0DQC, 9M8PW, T32AE, 9L1EX, OZ1BOD, ZP5MJV. worked by KB9OW.

JW5IJ, XF4MDD, CN8BX, 3X1Z, P29NSF-28.555-2300—Fridays, VS6CT-28.705-2330, worked by KB9PC.

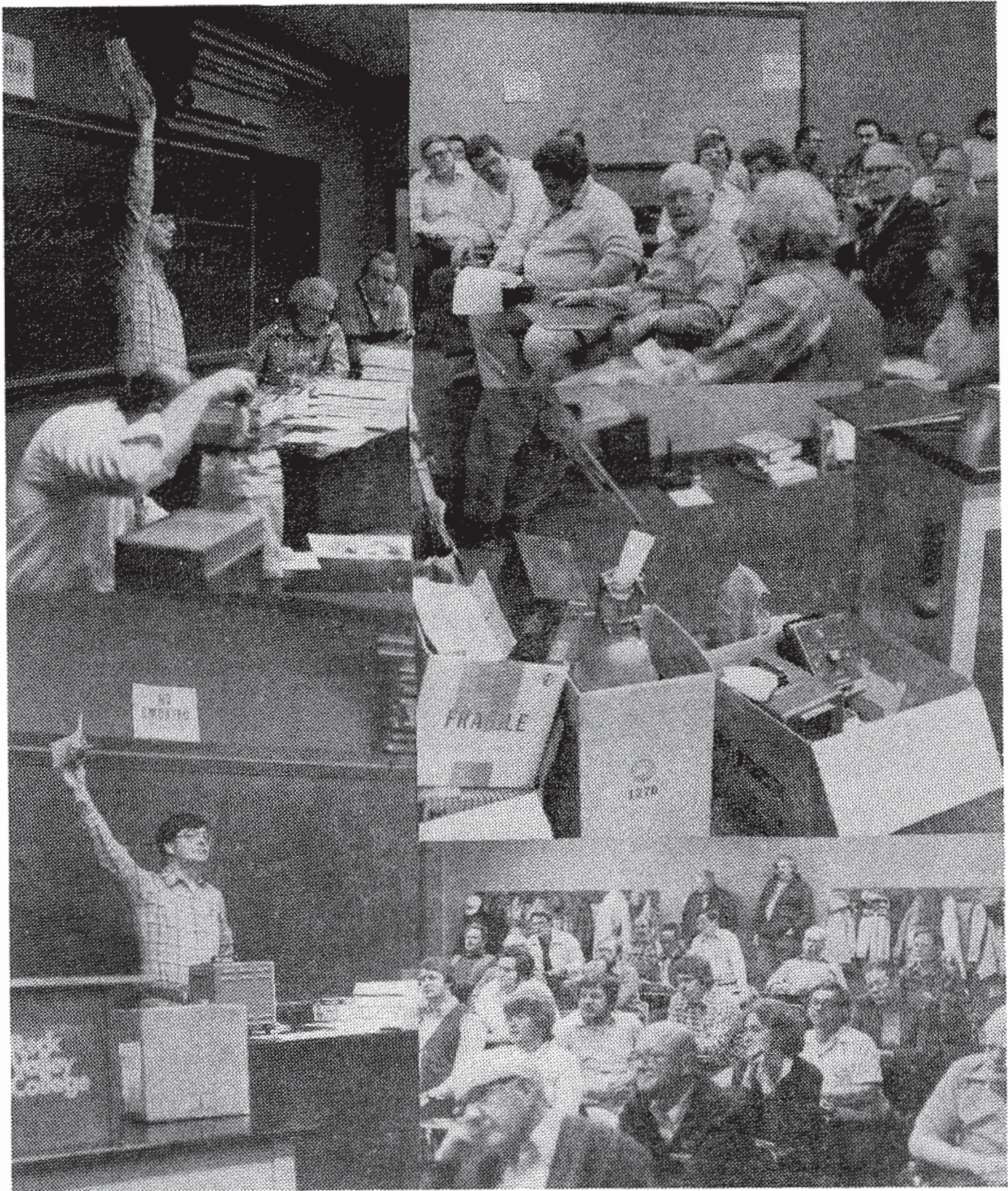
Lots of questions about QSL's from Franz Josef Land, UK1PAL and UK1PGO. Some people have received their cards but a lot have not. The word is they are to be printed soon. Most USSR QSL's takes a year or

more to get to the W9 QSL bureau. One UB5 I recently received was dated 1977. So wait, they will come. Meanwhile keep working them.

The CQ DX column for April will be written by Larry/K9LUX. Larry has been a DX'er for many years. He started operating about the same time I did. Those days we did not have the nice equipment like we have now. Larry will give you tips and information on what has helped him. It is a real pleasure to have Larry (an expert DX'er) helping out. ■

-73, K9IKP, Gene





PHOTOS & LAYOUT BY CAROL, K19G

ELECTRONIC NUMBERGRAM

By JOHN A. COMSTOCK

THIS puzzle is especially for those electronics hobbyists who are fascinated by numbers and calculations. This should keep you busy the rest of the day!

When you have worked out the problems presented by the clues, and filled in the right numbers, turn to page 158 for the solution.

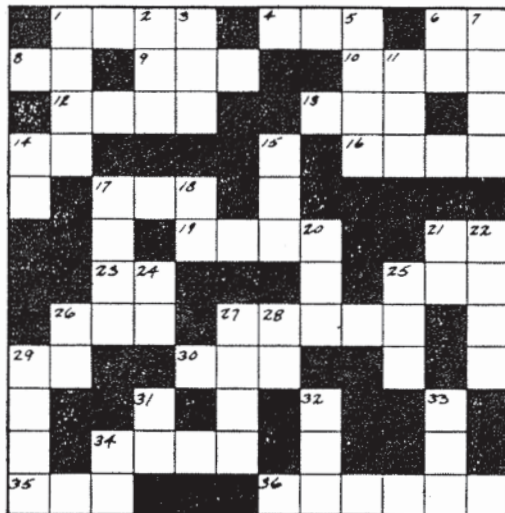
ACROSS

1. Year Hertz proved radio possible.
4. Frequency in Citizens Band set aside for radio-telephone.
6. Maximum efficiency commonly obtained in actual practice when an amplifier is operated class B.
8. Last TV channel in UHF group.
9. Wire left on 1000-ft. spool after you have run a line 300 ft. long.
10. Frequency of a parallel tuned circuit tuned to 3600 kc after inductance has been reduced by half and capacitance doubled.
12. Lowest useful frequency in radio spectrum for accurate and reliable communications (in kilocycles).
13. Second harmonic of a 400-meter wavelength signal, expressed in kilocycles.
14. Voltage across a capacitor that has been connected to a source of 100 volts, then removed and connected in parallel with another capacitor of the same value.
16. Largest AWG wire gauge.
17. 2.71×10^{-6} henries expressed in microhenries.
19. Image frequency of a superhet when tuned to 1450 kc and IF is 465 kc.
21. Total capacitance of three capacitors—4, 6, and 12 microfarads—connected in parallel.
23. Third harmonic of 5 kc.
25. Voltage drop across series resonant circuit when capacitive reactance and inductive reactance are 175 ohms each, resistance is 65 ohms, and applied voltage is 248 volts.
26. Width of commercial FM broadcast channel in kilocycles.

27. Inductive reactance of a 2-henry choke at a frequency of 3000 cps.
29. Amount of resistance in ohms when a voltage of 100 volts will maintain a current of 10 amps.
30. .000005 amp converted to milliamperes.
34. The number of years required for radium to lose one-half its energy.
35. Decimal multiplier used when you have the peak value of a sine wave, but want to find the average value.
36. Velocity in kilometers of a 20-mc signal having a wavelength of 15 meters.
17. Oscillator frequency in kilocycles of a transmitter having an output signal of 16880 kc and three doubler stages.
18. Number of equalizing pulses transmitted per field in monochrome TV.
20. Wattage reference level in watts of 0 decibels.
21. Number of joules in 24-watt seconds.
22. Radiated output in watts of a station when transmitter output is 1 kilowatt, line loss is 50 watts, and antenna power gain is 3.
24. Theoretical field strength in mc per mile at 200 miles when 100 mc per mile is measured at 100 miles.
25. Applied voltage when two resistors are connected in series, the value of one 50 ohms, the other with a voltage drop of 50 volts; current flow is 3 amps.

DOWN

1. Received signal frequency of a superhet when IF is fixed at 176 kc and mixer oscillator is operating at 1586 kc.
2. Dah-dah-dah-dit-dit, dah-dah-dit-dit-dit, dah-dah-dah-dah-dah.
3. Second harmonic of 300 kc.
5. Xc of a .01-mfd capacitor at a frequency of 3000 cps.
6. .080 millihenries expressed in microhenries.
7. Output frequency of a 5-mc transmitter expressed in kilocycles.
10. Lower limit of medium-frequency band in kilocycles.
11. .0006 microfarads converted to micro-microfarads.
14. Total resistance of 15 ohms, 30 ohms, and 5 ohms, connected in series.
15. Color burst frequency in megacycles.
26. Value of negative bias on a tube when grid resistor is 2000 ohms, grid current 10 milliamperes.
27. Upper limit in megacycles of UHF band.
28. Wavelength in meters of a 4-mc transmitter signal.
29. Year radar was first used to make contact with moon.
31. Current flow in amperes when a resistor drops a voltage of 10 volts and the power dissipated is 270 watts.
32. Total number of electrical degrees that plate current flows in a class "A" amplifier.
33. 7×10^2 micromicrofarads in ordinary notation.
34. Value of a resistor color-coded brown, blue, black.



Inside the A.R.R.L.

Over the past three years I have had the opportunity to correspond with ARRL Headquarters to gain assistance for many of our club functions. This first came about when Shari-WB9SFT (who then was president of RARA) advised me to contact a lady named Marge Tenney. Since then Mrs. Tenney has served as RARA's contact for our questions concerning club activities. After making several contacts with her, I am pleased to say she has met everyone of my requests with the highest of professionalism.

The following is a summary of an article featuring Marge in QST. The date of publication is unknown.



MARGE TENNEY, WB1FSN

When Marge came to ARRL Headquarters as a Kelly Girl in 1964, she never dreamed she'd end up in an administrative position in charge of one of the most demanding of Headquarters programs. Marge started out addressing first-day issue covers for the U.S. postage stamp honoring the League's 50th anniversary. Today WB1FSN is the ARRL convention/travel coordinator in the Membership Services Department. She is also editor of the "Hamfest Calendar" and convention pages in QST.

Actually, Marge made a couple of stops along the way to her present post. For a while she worked under Laird Campbell, W1CUT, the managing editor of QST. "One day John Huntoon (general manager at that time) asked me if he could borrow Marge for a while. I haven't seen her since," Campbell said. She was the secretary for the general manager's office and for the Secretarial Department (now Membership Services) until assuming her present position.

Marge handles mountains of paperwork, starting with the mailing of hamfest and convention applications to prospective sponsors of League sanctioned events; shipment of "convention kits" consisting of handouts and other materials as well as the packages of ARRL publications that serve as prizes; processing of mailing-label orders for publicity mailings made by the sponsors; and coordination of publications/supplies consigned for sale at the League booth (and keeping track of the money taken in for these sales, as well as any membership sold). All information received at Headquarters for "Hamfest Calendar" is acknowledged with a postcard stating date of publication, and all events, League sanctioned or not, are recorded in a register of events.

In their spare time, Marge and her husband, Herb, WB1ETL, go square and round dancing. (She makes most of her square dance dresses, too.) WB1FSN also enjoys walking or riding her bike around Plainville, CT. Marge and Herb have three sons, a daughter and two grandchildren. Their youngest son, Rick, is WB1ASG.

Rather than the usual ham greeting of "see you on the air," don't be surprised if Marge says, "See you in a square!"

As you have read Marge Tenney has made her presence known throughout the ranks of the ARRL. She started at the bottom and worked her way up; never looking back but to slow down to take on added responsibility.

In conclusion I can only say, I am honored to have met this grand lady. Marge Tenney, thank you for sharing your experiences with our HAM RAG readers. I will be calling you soon, club business of course. ■

-73, Jim Ambruoso

Awareness Day

Dear Editor,

I would like to let you and your readers know we are rapidly approaching our 2nd **AWARENESS DAY**. This year again, it will be at Colonial Village Mall. We would like to see as many of our members and friends drop around as possible. However, those that can not could still help by monitoring the local 2 meter frequency as we want to demonstrate our capabilities to as many people as possible.

We also want operators to keep the contacts going as much as possible, and to get the public in the act by encouraging people to talk on the radio. If anyone has a particular segment of Ham Radio they are proud of, and would like to demonstrate to the public, please come forward, and let's do it.

We will be having an antenna rasing March 13 or 14 depending on the weather. Gene-KA9BOD has graciously allowed us to use his tri-band beam. The club has a 6 meter and a 2 meter beam, so we can work HF and VHF. Also we are going to try for a 40 meter dipole or inverted V for lower frequency work.

The club has ordered 2,000 feet of coax to use for **FIELD DAY**, and some to resell to members. A list has been started, to get your name on it you should contact Frank/KB9KH. Also there will be room for displays, etc. So bring your antiques and/or other items and we may be able to interest a few citizens in our hobby. ■

-73, WA9FFL

Paul Plasters

SOMETHING TO THINK ABOUT

Are you an active member, the kind that would be missed?

Or are you just contented that your name is on the list?

Do you attend the meetings and mingle with the flock?

Or do you stay at home and criticize and knock?

Do you take an active part to help the work along

Or are you just satisfied to be the kind that "just belongs"?

Do you ever go to visit a member that is sick? Or leave the work to just a few and talk about the "clique"?

There's quite a program scheduled that I'm sure you heard about.

And we'll appreciate it if you will come and help us out;

So come to the meetings often, and help with hand and heart;

Don't be "just a member", but take an active part,

Think this overmember You know the right from wrong:

Are you an active member, or do you "just belong"?

Author Unknown

Thanks to Kettle Moraine, February 1982

Letter of TNX

I SAID IT COULD NOT BE DONE!

A few week ago Chuck Moser-W9JLN stopped by my office and told me a Novice class was starting at the Harlem Community Center and to see Gene Melton for enrollment. This I did, and entered the class taught by Gene, Russ and Carol.

On Friday night February 12th, I opened an envelope from The Federal Communications Commission and there was that 52 year dream, hope and prayer written on a beautiful piece of paper that showed **W. A. BEST/KA9MOQ NOVICE** could go on the air as a ham radio operator. Yes, for 52 years I feared trying for a ham ticket. The first hurdle is over

Verily I say unto you, marry not a YL Radio Amateur operator for she is a strange being possessed of many devils!

Though she may appear harmless, thou needst be wary of her

While you may'st please another maiden with gifts of candy and flowers, the YL operator yearneth for a new microphone and a rotary beam.

She marrieth only to obtain a free technician and goeth on a honey moon to visit radio friends and to fill the log book with entries of different zones.

Instead of an evening at the movies she will asketh thou to string a new antenna or repair the rotary beam.

On the weekends, thou wilt align the receiver and repair the transmitter.

When thou comest home from a hard days' labor, weary unto death and hunger for meat and drink, thou findest a note on the table— *"Thine dinner be in the ice box; so far I have made 2000 points in the contest."*

She speaketh not a language understood by the neighbors; she referreth to thine house as the "QTH" and thy children as harmonics.

She worryeth about sunspot cycles and talketh of variations in VP2 land.

She understandeth not why thine neighbors regard her with suspicion when she asketh them to care for the harmonics while she attendeth the hamfest.

She keepeth late hours and cometh to bed only when the band foldeth up.

now for the general.

I have taught radio and television for many years ago so if you get the comment "I CAN'T DO IT." tell them to call me at 654-8483 or 962-7757.

My most gratefull thanks goes to Gene, Russ and of course most of all to Carol for her patience in teaching me code.

Keep up the good work gang and count on me as a volunteer. ■

**W. A. Best "Bill"
KA9MOQ 15 dahs wow!!!**

**de MCWA March 1982
ARNS February 1982**

- **DO NOT** ride in an automobile; they cause 20% of all fatal accidents.
- **DO NOT** stay at home because 17% of all accidents happen in the home.
- **DO NOT** walk around on the streets; 14% of all accidents happen to pedestrians.
- **DO NOT** travel by air, rail or boat; 16% of all accidents are the result of these activities.
- **BUT** only .001% of all accidents occur at amateur radio club meetings. Obviously, the safest place to be on **MARCH 12th is at the RARA CLUB MEETING HELD AT ROCK VALLEY COLLEGE AT 7:00 P.M.**

THIS MONTH'S PROGRAM IS ON COMPUTERS.

Adapted from an article in the MCWA. March 1982 by Karen/KA9Y.

Potpourri

Hello again for this month. Yeah, I was late again as usual. But since you are reading this, I know Jim found my article in his mail box. I don't have a whole bunch of scuttlebutt so I'll practice some Reaganomics and save the paper. HI.

Let's all wish Shari "SFT" a speedy recovery. I heard she is convalescing and I hope they reset her odometer back a few thousand miles.

I also heard that "EL PRESIDENTE" had a mini antenna party with Gene "BOD" doing the hi-wire honors. It seems Frank's antenna was looking like a CB'ers, a multi-polarity beam. Hope all is up there nice and solid now Frank so you can continue reloading shells for bandoleers. I like "EL PRESIDENTE" better than the "AYATOLLAH". HI.

I guess Moe "CCE" is very happy with his 6 meter DX QSO's. FB to Moe and anyone else who found opening on 6 meters for DX.

I am wondering just how old Gertrude "PC" actually is. She sure looks healthy for giving birth to twins, Mike & McKey. What's on the burner for next year? Triplets? HI.

We have a rather new novice in town — KA9MNE/Paul Dixon. I guess he went the do it yourself route. Other new novices include Ron / KA9MOL, Bill / KA9MOQ & Duane / KA9MOR. These three came from the last RARA novice class. Congrats to all and hope to see you at **Field Day**.

Thinking of **FD** in June, please give Russ "FVI" or Don "AWZ" a call and volunteer for something. That is what makes the club work. Where else can you electrocute mosquitos, use a privy, and eat at Mrs. Harner's breakfast club. She is a darn good cook Dale!!! Tze oncoming of FD teams on all bands sounds appealing to me. I'll be there but you won't know me. HI.

I heard a KA9HPT (*I believe*) on 2 meters recently, sorry I don't know you name but hello, if you're reading this *WHO ARE YOU?*

Our recent waether has been super. I am planning an antenna tower soon in the spring.

Word has reached my ear that Jim "Apple Pie" is looking a bit older these days. Congrats gramps!

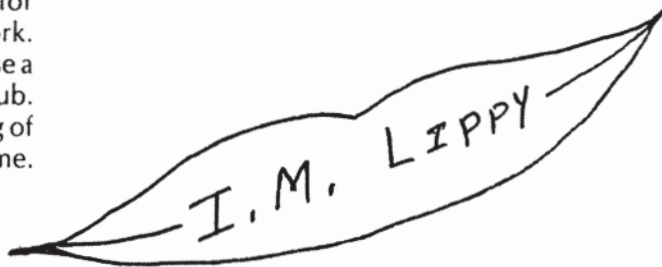
I recently heard Lee "ZZL" on 2 recently. Nice to hear your voice Lee. Keep it up.

I guess Dave "HPV" has had no inquiries to the QRP ARC club. "Spend 6 bucks, reduce your power and go award hunting the hard way on 5 or 10 watts." Dave says anyone can "SHOOT CARP IN A BARREL". In their October CW contest, Dave won Illinois and W9-land at 2 watts output and was 11th worldwide. Dave explained, "They have a SSB QSO PARTY in April, so reduce power and you will be surprised at what you can do."

Now let's all "tool on down" to the Sterling hamfest on March 14 and support their club. Their pie bakers are *EXPERTS!!!* Just like Gramma used to make.

Well, I am about QRU for now, so if any one of you see Gertrude with "Huggies" or "Pampers" you will know they are for Mike & McKey. HI.

73 till next month and I hope I can be on time. ■



I.M. LIPPY

Ham Mart

FOR SALE

100 Volt, 70 Amp. Bridge Rectifier.
Mounted on Heat Sink. \$5.00.
7½ Amp. Auto Transformer \$5.00.
Call Chuck/W9JLN at 397-2265.

FOR SALE

FOR SALE

Kenwood Twins - 599D; with Speaker & Mike.
\$625.00.
Call Wayne after 5 at 654-0064. ■

FOR SALE

□ **CLUB DUES ARE DUE!** □

ROCKFORD AMATEUR RADIO ASSOCIATION
P.O. BOX 1744 ROCKFORD, ILLINOIS 61110

ADDRESS CORRECTION REQUESTED

BULK RATE
U. S. POSTAGE

PAID

ROCKFORD, IL
Permit No. 230

NETS;

28.7 Mhz. Monday 9:00 P.M.
50.4 Mhz. Nightly 9:00 P.M.
146.01/.61 Mhz. Monday 8:00 P.M.

BLACK HAWK VALLEY
TEN TEN INTERNATIONAL
28.925 Mhz. Wednesday 9:00 P.M.
21.130 Mhz. Thursday 9:00 P.M.