



the RARA RAG

Published by

ROCHESTER AMATEUR RADIO ASSOCIATION, INC.

VOL 41

JANUARY 1989

No. 5

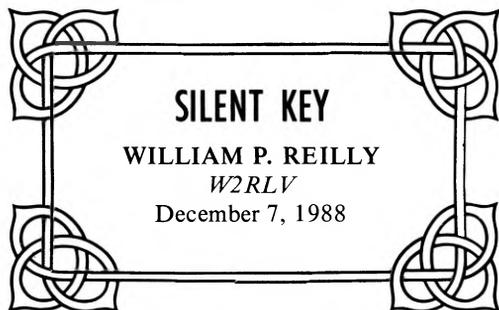
RaRa JANUARY 6th MEETING

As you are sitting quietly in your seat (we hope quietly) on a jet airplane arriving at Monroe County Airport, the airwaves are alive with a variety of signals. There are ground control, tower and approach and departure communications, regional control centers' communications, navigation aids such as ground beacons and loran/c, and many other traffic controls.

John Stuck, Air Traffic Manager at the Monroe County Airport, will talk about the challenges of air traffic control and the coordination of various communications necessary for safe aircraft operation. Don't miss the chance to hear this interesting program on Friday night, January 6, 1989, 8 p.m., at the 40 & 8 Club, 933 University Avenue.

RRRA MEETING TO FEATURE 911 CALLING TECHNIQUES

The January meeting of RRRA will feature a speaker from the 911 center to discuss the best way to convey important information to the 911 center operators in emergency situations. The discussion will include such important topics as what information you should give to the operator to help get the vehicles rolling in the quickest manner possible. This will be a very important meeting for all amateurs that utilize the 911 facility of the 28/88 repeater as we all can brush up on our emergency reporting techniques. See you there on January 20th at 8:00 p.m. at the Pittsford Town Hall on Main Street in Pittsford.



WINTER FUNFEST

Just a reminder to save February 11, 1989 for a day of fun in the snow. That's the date of the Annual "Winter Funfest" at Mendon Ponds Park.

Cost per person is \$2.00 with a maximum of \$5.00 per family. Hots and Hamburgs will be provided along with gourmet delights. In case you have never been there to partake of these goodies it's worth the trip for a cup of Goz's famous Chicken soup. He says it takes a whole day to make. Then you try Dave's "Hot" Chili - best I've ever eaten.

Outdoor recreation - coasting and cross-country skiing will be available if Jerry, KB2DVV, can arrange for some snow. In case you don't know him he is chief weatherman at the Airport.

Further information with directions and a map will be provided in the February "RAG". See you all at Hopkins Lodge.

PUBLIC SERVICE '89

by Ed Holdsworth, N2EH

The first request has come in for our assistance. I have received a request for communications support at a Cross Country Ski Event to be held in February.

The event is the Mid Atlantic Bill Koch Cross Country Ski Festival to be held on the weekend of February 18 and 19. This event is for youngsters up to sophomore in High School and will have several different races up to 10K. This event will be held in either Mendon Ponds Park, Pittsford-Sutherland High School or Powder Mill Park. They would like operators available on Saturday from approximately 0900 hrs to 1500 hrs and on Sunday from 0830 hrs to 1430 hrs.

I don't believe you will have to be an accomplished Cross Country Skier to participate, but it will probably be helpful if we were to have a few skiers. I will have the usual sign-up sheets at the January meeting and will have more details on this event at that time. If you are unable to attend the meeting (*shame on you*) you can call me at home and I will be glad to add your name to the list.

the **RaRa Rag**

Published by
ROCHESTER AMATEUR RADIO ASSOCIATION, INC.
P.O. Box 1388, Rochester, NY 14603-1388

Co-Editors **Neal Eckhardt, WB2EKP**
80 Authors Avenue, Henrietta, NY 14467 (716-359-2672)

..... **John J. ("Jack") Dempsey, KA2PJJ**
357 West Squire Drive, Apt #1, Rochester, NY 14623

(716-424-1637)

Contributing Editor **Dwight Hill, K2KWK**
265 Norcrest Drive, Rochester, NY 14617 (716-544-2332)

Advertising Manager **Dick Goslee, K2VCZ**
24 Elaine Drive, Rochester, NY 14623 (716-334-1762)

VOL. 41 JANUARY 1989 No. 5

OFFICERS:

President: Dave Bernheisel, N2DPF 244-1856
Vice President: Bob Hobday, N2EVG 624-3368
Secretary: Pete Secrist, WB2SUN 265-2028
Treasurer: Dick Goslee, K2VCZ 334-1762

BOARD OF DIRECTORS:

Chet Albrecht, WB2MDO 865-6440
Lloyd Caves, WB2EFU 671-7079
Neal Eckhardt, WB2EKP 359-2672
Irv Goodman, AF2K 671-4430
Ed Holdsworth, N2EH 624-1929
Bill Shaw, N2EKR 288-1547
Bud Young, WA2UGE

Club Historian: Bruce Kelley, W2ICE
Public Service Coordinator: Edwin Holdsworth, N2EH
License Testing Director: John Schooley, K2NC
Membership Chairman: Lloyd Caves, WB2EFU
Licensing Course Director: Edward Gable, K2MP
Hamfest General Chairman: Harold Smith, K2HC
K2JD Engraving Director: Robert Lauzon, K2RL

The RaRa Rag (USPS 605-440) is published monthly except July and August by the Rochester Amateur Radio Association, Inc., 357 West Squire Drive, Apt. #1, Rochester, New York 14623. Subscription is \$4.00 per year (included in the \$9.00 annual membership dues). Second class postage paid in Rochester, New York.

POSTMASTER - Send address changes to The RaRa Rag, P.O. Box 1388, Rochester, New York 14603-1388.

Full permission is granted for reprinting articles provided a credit line is given to the RaRa Rag. The Rag exchanges with other organizations' publications.



Amateur Radio News Service

SO I GOT A NEW PACKET RADIO FOR CHRISTMAS, NOW WHAT DO I DO WITH IT?

Then come to the Rochester Amateur Packet Society meeting (RAPS for short). This month we will be having a variety of packet stations set up for a "hands-on" live demonstration in the use of packet radio. This is the ideal time to take a look and learn about this mode of operation and see how to operate packet for yourself. Also for those that have been operating for awhile, we will have a TNC setup with "THENET" firmware. "THENET" is a sophisticated networking software system that provides automatic and dynamic setup of links to distant areas without the usual limitations of traffic collisions. Some of the automatic routing and user friendly functions will be shown.

The RAPS (a sub-committee of RaRa) holds their meetings EVERY SECOND THURSDAY of the month through May 11, 1989. We convene at 7:30 p.m. in the auditorium on the first floor of the Monroe County Social Services Building, 111 Westfall Road, located at the corner of Mt. Hope and Westfall near Interstate 390. Our goal is to provide a service to amateur community by providing a source of information on packet radio. We also provide a pool of trained packeteers that are willing to help in times of need or emergencies. Our meetings are held in forum style to promote a free flow of information concerning the many aspects of packet radio that will give any person a chance to ask questions or state their opinions or concerns in the field of packet radio.

If you have any questions about packet radio and are unable to attend any of the RAPS meetings, please contact any of the following RAPS officers.

Chairman - Keith Hibbert, KE2DI
Vice-Chairman - J. D. Van Griethuysen,
N2BNE

Secretary - Roger Harnaart, WB2WXQ
Treasurer - Jim Centanni, W2IMK

The RAPS meetings for the rest of this radio year are scheduled for the following dates:

January 12, 1989 February 9, 1989
March 9, 1989 April 13, 1989
May 11, 1989 73's

J. D. Van Griethuysen, N2BNE @ WB2WXQ

FOR SALE- 40 foot crank up tower, Telerex Tri-Band Antenna, Ham "M" Rotor. Come take a look. Ray Jobs, WB2AFQ, 180 Princess Drive - 334-0588.

ERROR CORRECTION

There were several typing errors in Dave Payne's article "*MAXIMUM LEGAL POWER LIMIT CHANGE - DOES IT INCREASE OUR POWER OUTPUT?*". I apologize to Dave for not catching it before it went to press and the entire section (8b) is reprinted here with the corrected formulas. Look for part 2 in his series elsewhere in this issue.

b. For SSB transmissions modulated with voice having 2:1 (PEP to Average power) characteristics:

Old Limit 1000w Average input limit (as read on meter during voice peaks) =

$2000w \text{ PEP input} \times .675 \text{ efficiency} = 1350w \text{ PEP output}$
 $2000w \text{ PEP input} \times .600 \text{ efficiency} = 1200w \text{ PEP output}$

New Limit 1111w Average input (as read on meter during voice peaks) =

$2222w \text{ PEP input} \times .675 \text{ efficiency} = 1500w \text{ PEP output limit}$
(11% Increase in Power)

1250w Average input (as read on meter during voice peaks) =

$2500w \text{ PEP input} \times .600 \text{ efficiency} = 1500w \text{ PEP output limit}$
(25% Increase in Power)

AMERICAN JOKES . . .

You have heard all those ethnic slur jokes about Polish, etc. here are a few jokes told in foreign countries about Americans.

Q. Why does it take 3 Americans to change a lightbulb?

A. One to stand on the ladder, and two to carry enough lightbulbs until one is found that isn't defective.

Q. How can you tell it's midnight at an American airport?

A. When you see the 8 PM flights taking off.

Q. How can an American be certain that the car he's just bought is actually new?

A. When it's recalled by the factory.

Q. What do Americans call a TV set that goes five years without need of repair?

A. An import.

*Tnx Reading Radio Club Bulletin
via NARC Radio*

RaRa CALENDAR FOR JANUARY

- 1 - HAPPY NEW YEAR!!!
- 2 - New Year's Day holiday observed
- 4 - West Coast Qualifying Run -
10-35 WPM - starts 0500 Z
- 6 - RaRa Meeting - 8:00 p.m. -
40 & 8 Club, 933 University Avenue
- 7-8 - ARRL RTTY Round-UP
- 10 - RDXA - 8:00 p.m.- 111 Westfall Rd.
Topic - VHF-UHF Contesting
- 12 - RAPS - 7:30 p.m. - 111 Westfall Road
- 13 - VHF Group Meeting- 111 Westfall Rd.
- W1AW Qualifying Run -
35-10 WPM - starts at 0300 Z
- 14-16 - ARRL VHF SWEEPSTAKES
- 16 - Dr. Martin Luther King, Jr. Day
- 19 - First trans-atlantic two-way contacts by
Marconi, 1903
- 20 - RRRR Meeting - 8:00 p.m. - Pittsford
- Inauguration Day
- 26 - W1AW Qualifying Run -
10-35 WPM - starts at 2400 Z
- 27-29 - CQ World-Wide 160 Meter DX
Contest - starts 2200 GMT Friday
- 28 - Novice Round-Up Contest

GOLDWATER RECEIVES AWARD

Former US Senator Barry M. Goldwater, K7UGA, was selected to receive the 3rd annual AEA Amateur Ambassador Award from Advanced Electronic Applications. Senator Goldwater was chosen from over 100 nominations of amateurs possessing the qualities of "*ambassador*" for the Amateur Radio Service. The award was presented at the 1988 ARRL National Convention in Portland, Oregon.

Tnx Westlink Report

ALUMINUM SOLDER

by Tom, MDFJN,
via Charro, via The Mike & Key

You CAN solder Aluminum! Do it this way. At the solder location on the aluminum, place a drop of motor oil. Next, take a sharp-pointed tool (a pocket knife works well) and thoroughly "*scratch up*" the surface. Do not wipe off the oil. Now take your soldering tool, heat the spot and apply a good rosin core solder (just like soldering copper). You will find the solder will adhere completely - both physically and electrically. Works great for making connections to an aluminum chassis. Try it! You'll be surprised.

PUBLIC SERVICE 1988

by Ed Holdsworth, N2EH

I am sitting here at my typewriter (computer) trying to think of the many ways to say *THANKS* to the many members of our organization and other groups that made this another very successful year in the field of **PUBLIC SERVICE** and **EMERGENCY COMMUNICATIONS**. I wish I had the time to write a personal letter to each and every one of you but even with my new found command of this amazing machine, there just isn't enough time available to me. I will touch on a few of the highlights of the year as we approach the end of 1988 and look forward to 1989 with what I hope is a new and rededicated interest in things to come.

We started the year with a small event, the *WALK FOR SIGHT* which fell on, of all days, May 21, **THE** big day in the Monroe County area, **HAMFESTDAY**. The next event was one which many people look forward to from the previous year, Susquehannock Pro Road Rally held in Wellsboro, Pennsylvania on June 3, 4, and 5. This year event was the usual success and for a change there were no serious accidents among the contestants. The next event, which fell on the same weekend, was the Northampton Driving Competition held at Northampton Park in Brockport. The next event, which fell on the following weekend, was the JCC 10K Human Race, followed by the Scotch Bonnett Yacht Race on June 17 and 18. These were followed by another yearly event that in the past has fallen on the same weekend as Susquehannock but was shifted this year, to the weekend of Jun 25 and 26, the Mendon Pony Club Cross Country Rally. The month of June is not only historically one of the busiest in Public Service in this area but we also see several groups out in the field on *FIELD DAY* the last weekend in June vying for top honors in this event.

The month of July, fortunately saw a drop in activity which made it possible to get a small group together and dismantle the 40' tilt over tower that was acquired for placement on the roof at 111 Westfall Road. This was accomplished one early Saturday morning in mid July by a small band of dedicated? members of RaRa (who was going out in 90° plus temperature then) and subsequently was lifted to the roof where it now rests waiting for the proper temperatures to install a working antenna.

The month of August suddenly moved in upon us and on the weekend of August 18 - 21, we were back at it working on the Walnut Hill Farm Driving Competition located at Walnut Hill Farm in Pittsford. The same weekend saw another group

hard at work on the other side of the county in Hamlin Beach Park at the Triathlon which took place on Sunday, August 21. These were followed by two events on the same weekend in September, the 17 and 18. We were helping the group from the Drumlins ARC at the Palmyra Canal-town days in Palmyra and we were also assisting the groups from Ontario, Yates and Steuben counties with the Multiple Sclerosis Bike Tour. The bike tour is a ride from Mendon Ponds park to Keuka State park on Saturday followed on Sunday by a ride around Keuka Lake and return home Sunday afternoon. The next weekend saw two groups working on the annual Bike Ride Plus, one in the Perinton area and one in the Greece area. These two events were followed by the Annual Ginna Evacuation Pre-Drill which was held on September 28. This closed out the month of September.

The month of October was a relatively quiet one which had only one scheduled event, the annual Ginna Evacuation Drill which was held on October 19, with twenty-six active participants. The drill and pre-drill were preceded by three other drills of short duration which included our participation at MCC, Pittsford Mendon high school and the Culver Road Armory. If you have wondered why we have not participated as a group in the S.E.T., it is because we consider our heavy involvement in the Ginna Drills at the same time as the S.E.T. to serve as our participation. This brought us to the last Public Service event for 1988. The Lighting of the Lights downtown. This year we had the chance to participate in an historic event for downtown Rochester. We not only assisted with the Lighting of the Liberty Pole and the safe arrival of Santa Claus, but we also joined with over 100 volunteers in the simultaneous lighting of over 100 trees that have been planted along the **NEW MAIN STREET**. This also was the celebration of the reopening of Main Street and Downtown Rochester to the public.

I sincerely hope that each and every one of you had a Happy Holiday and much Good Fortune for the coming year. I say **THANK YOU** again for your assistance and dedication in serving the public.

"LOST DOG"

3 legs. Blind in left eye.

Missing right ear.

Tail broken.

Recently castrated.

Answers to the name of Lucky.

Tnx The Reader

MAXIMUM LEGAL POWER LIMIT CHANGE — HOW DOES IT AFFECT OUR AM SIGNAL?

1 The FCC defines Peak Envelope Power as the average power during one radio frequency cycle at the crest of the modulation envelope, taken under normal operating conditions.

2 For a pure unmodulated carrier, the Average Power = the PEP.

3 For a 100% sine wave modulated carrier, the Average Power = 1.5 x the Unmodulated Carrier's Power.

4 For a 100% voice modulated carrier, the Average Power will be less and may approximately = 1.25 x the Unmodulated Carrier's Power.

5 In all cases, for a 100% modulated carrier, the Power at the Peak of the modulation envelope = 4 x the Unmodulated Carrier's Power.

6 Therefore, the old transmitting power limitations may be compared to the new amplitude modulation 1500w PEP output limit, that takes effect on June 1, 1990, as follows:

Old Limit An unmodulated carrier of 666w average power input x 1.5 for sine wave modulation = 1000w average power input at 100% modulation

An unmodulated carrier of 800w average power input x 1.25 for voice modulation = 1000w average power input at 100% modulation

Assuming a transmitter amplifier efficiency of 67.5%, what is the expected PEP output if the old average power input limit of 1000w is reached?

1000w average power input x 4 =
4000w PEP input
4000w PEP input x .675 efficiency =
2700w PEP output

New Limit The June 1, 1990 power output limit for AM will be 1500w PEP. As compared to the 2700w PEP output figure calculated above, this new limit is a 44% decrease.

Assuming a transmitter amplifier efficiency of 67.5%, what are the power input values that will produce the new output limit.

An unmodulated carrier of 370.3w average power input x 1.5 for sine wave modulation = 555.5w average power input at 100% modulation

An unmodulated carrier of 444.4w average power limit x 1.25 for voice modulation = 555.5w average power input at 100% modulation
555.5w average power input x 4 =
2222w PEP input
2222w PEP input x .675 efficiency
= 1500w PEP output power limit

7 In conclusion, if you ever ran the old legal power limit on AM double sideband, the new 1500w PEP output limit will represent a decrease in allowed power. The actual percentage of decrease depends your amplifier's efficiency. Variations in efficiency of between 67.5 to 60% will result in reduced allowed power of 44 to 37.5%, when comparing the old limit to the new.

8 Please keep in mind that an amateur station may use no more than the minimum transmitter power necessary to carry out the desired communications.

ARRL OUTGOING QSL BUREAU RATE CHANGE

Effective February 1, 1989, QSL cards bound for overseas will be shipped for \$2.00 per pound. Packages of 10 cards or less will continue to be distributed at the rate of \$1.00.

The ARRL Outgoing QSL Bureau has not increased fees charged for this valuable service to ARRL members since its inception in 1976 despite the fact that postage has increased several times. *Tnx ARRL Letter*

FOR SALE — Heathkit HW-5400 HF Transceiver (10-80 meters) with HWA-5400-1 Power Supply. Excellent Condition! \$400.00 for both. Contact Greg, N2GWN — (716) 227-5593.

MICHAEL G. RICE
(KB2SG)

Attorney At Law

Land Use/Zoning Personal Injury
Real Estate Matrimonial
Wills/Estates Criminal/Traffic
Social Security Claims

Evening Hours
(716) 454-6000

Advertisement

FOR SALE — Packet Radio, PK232 with cables and manuals. Excellent Condition — \$250.00. Call Joe, KA2AEY, 225-6723.

LITTLE PISTOL TO BIG GUN — VHF STYLE

by Ev Tupis, WB2ELB

Have you ever wondered what it would be like to be a contender in a VHF contest? Have you ever experienced that wonderful feeling that you get when you tally up your score and notice that you have cleared 10,000 points for the first time ever? What about your first 20,000 point experience? Have you had one yet? Would you like to have one? If you are a one or two band low-powered operator that has such high desires, you aren't alone. You may be interested in finding out that there are lots of operators that have the same desire of scoring higher in contests, but don't have the inclination to sink big bucks into upgrading equipment and/or adding high power amplifiers. Did you know that there is a **simple** strategy that will allow hams like you to capitalize on their situation and double, triple, quadruple or even quintuple their score? **If this sounds interesting, then this article is for you!**

Before you read any farther, though, I should let you in on something ... this strategy is not for the weak minded. You see, this strategy doesn't cost anything materially. You don't have to buy any new radio equipment (your XYL will love it), you don't have to permanently put up any additional aluminum (the neighbors will love it), and you don't have to stock-up on No-Doze (your body will love it). Can it be one of those "*get something for nothing*" schemes? At first glance, it may seem so, but let's examine the only trick involved.

You need to find another person that has the same desire for scoring higher as you do, and the same lack of interest in buying into a super-charged station. This individual needs to have equipment for only one or two bands (just like you). *The secret is getting together for a contest.* Think about it! Do you know why contest stations that have more than one operator score (for the most part) higher than single operator stations? It's easy ... while one person is making a contact on one band, someone else is making a contact on another band. Can that be the only advantage (as if that wasn't enough)? Certainly not! Think about it ... suppose you have a two operator station. You are on 2 meter FM and your friend is on 6 meter SSB. You are working a lot of people, and he is getting no response to his CQ's. All you need to do is ask each person that you work on 2 meter FM if they have 6 meter SSB. If they say "*Yes*" then tell them that you would like to work them on 50.210 MHz (or whatever frequency your other operator is on), and go on to your next

contact. This feeds your other operator a lot of contacts that you may have simply missed otherwise. Besides, while they are working them on 6 meters, you are continuing to work more people on 2 meters!

Here is a sample exchange between YOU and another station:

YOU: "W2AA from K2ZZ, you are 5-9 in FN13, QSL?"

THEM: "Roger QSL"

YOU: "W2AA, are you on 6 meters?"

THEM: "Roger, Roger"

YOU: "I'd like to work you on 50.210, OK?"

THEM: "Sure, I'll be there in 3 minutes warm-up time"

YOU: "Thanks! We'll be waiting for you to call, 73 ... CQ contest from K2ZZ"

Note: Inform your other operator to be listening for W2AA.

It seems pretty simple, doesn't it? But what can it actually mean to your score? Let's suppose that during the last contest, you operated strictly 2 meter FM and 6 meter SSB/CW. Your entry read as follows:

K2ZZ	QSO's	Value	QSO Pts	Grids	Band Score
6 Meters	55	1	55	16	880
2 Meters	157	1	157	3	471
TOTALS->			212	19	4,028

Now, let's suppose that your friend from across town operated on 2 meter SSB and 6 meter FM and his entry looks like this:

N2ZZ	QSO's	Value	QSO Pts	Grids	Band Score
6 Meters	12	1	12	2	24
2 Meters	209	1	209	19	3971
TOTALS->			221	21	4,641

If you were to both submit your logs to the ARRL and state that you wanted them to go toward the Club Aggregate for the Rochester VHF Group, you would have added 8,669 points to the club score. In addition to that, both of you would have scored in the bottom half of all logs submitted.

Suppose, though, that you (K2ZZ) and your buddy from across town (N2ZZ) decided together for the contest and operate as a multi-op. In addition to your 2 meter FM and 6 meter SSB, your buddy brings over his 2 meter SSB and 6 meter FM stuff. Now your entry would look like this:

K2ZZ (+N2ZZ)	QSO's	Value	QSO Pts	Grids	Score
6 meters	67	1	67	18	1,206
2 meters	366	1	366	22	8,052
TOTALS ->			433	40	17,320

Note that you still have the same total number of contacts as if you were operating separately,

and ditto for grids, yet, your final score is quadrupled over your single operator effort, and your contribution to the VHF Group's Club Competition score has doubled! That's not all, either! If you were to have gotten a score of 17,320 points as a multi-operator with the VHF Group in Sweepstakes '88, you would have qualified for Fourth Place in Western New York (and probably a plaque from the VHF Group!). Not only that, but you would have placed 14th Nationally for total 2 meter QSO's!

Think about it, such a huge increase in score for such a minimal amount of effort! Just think of the opportunity you may face if you can find a third friend to man a 440 FM or 432 SSB station! You don't even need high kilowatts to score big! Two years ago (Sweepstakes '87), myself (WB2ELB) and Keith (KE2DI) got together for a medium power multiop effort. We decided to really go for it, and were active on 50 (SSB), 144 (SSB + FM), 220 (SSB + FM), 432 (SSB), 450 (FM), 903 (SSB), and 1296 (SSB). Our station looked like this:

50 MHz	150 watts	3 element beam
144 MHz	160 watts	Cushcraft 8214 - SSB
	45 watts	Cushcraft 11ele.- FM
220 MHz	120 watts	Cushcraft 220B - SSB
	15 watts	Home Brew 5 ele.- FM
432 MHz	40 watts	Cushcraft 424 - SSB
	35 watts	Cushcraft 11ele.- FM
903 MHz	6 watts	33 element loop yagi
1296 MHz	1 watt	45 element loop yagi

From this operation, Keith and I racked-up 41,440 points and took a 2nd place trophy home from the Rochester, NY VHF Group! I've never scored that high before, and I must tell you, the feeling was great! So give multi-operator contesting a try! You may be amazed at the score that you can put together and the friendships that you can cultivate. Just remember the secret: Team up with someone else that has a band that you either don't have or don't have time to work. The rest is up to you! I'll see you up high in the contest write-ups!!!



ROCHESTER HAMFEST
MAY 19-20-21, 1989

CALLBOOK BUYS RADIO SCHOOL

Gordon West's Radio School has been purchased by Illinois-based Radio Amateur Callbook, Inc. The Callbook will handle all distribution of Gordon West's cassette code tapes and West-written Amateur Radio training materials.

Gordon West will continue to develop and produce new code tapes, as well as additional upgrade training books.

West also plans a new powerful program for training Amateur Radio instructors. West considers ham instructors and "Elmers" the key connection to increased Amateur Radio recruitment.

"We will soon have audio, video and written materials specifically for hams teaching beginner and upgrade classes. Now that the Callbook has taken over Radio School distribution, I will have more time for new code tape titles, new upgrade books, and a new instructor training program that gives Elmer and instructor the tools they need to teach exciting Amateur Radio classes", adds West.

The new phone number and address for ordering Gordon West Radio School books and tapes products is: Radio Amateur Callbook, Inc., 925 Sherwood Drive, Box 247, Lake Bluff, Illinois 60044; (312) 234-6600.

Hams needing to ask "Gordo" any questions about training materials or the upcoming instructor program should write and call: Gordon West, Gordon West's Radio School, 2414 College Drive, Costa Mesa, California 92626; (714) 549-5000, M-F, 10 a.m. - 4 p.m. (CA time).

Tnx World Radio

GEAR WANTED - Used 2 meter hand-held similar to FT-727R, ICO2AT, or TH215A capable of operation above 148 MHz. Call Peter Fournia, WA2BPQ, 377-0535.



W2YJ

AMATEUR RADIO REPAIRS
ALL MAKES OLD/NEW
BUSINESS 2 WAY SYSTEMS



COMMERCIAL

COMMUNICATIONS

3654 BOWEN ROAD
LANCASTER, NEW YORK 14086

GEORGE L. KRICKOVICH

(716) 684-3562

Advertisement



CONTESTING

Wayne King, N2WK

I hope all of you had a very nice holiday and Santa was good to you. Maybe a new toy just in time for the VHF Sweepstakes! On the 14th and 15th of January the 42nd running of the VHF Sweepstakes will take place and as contest chairman I would like to invite all stations in and around the area on behalf of the Rochester VHF Group to participate in this contest. No matter what size station you are running we hope to hear you on the vhf bands. If you can only spend a few hours that's fine. You say you only have 2 meter FM. That's great. Please get on and join in. Listen for stations on 146.49, 55, 58, and see if you can get your friends to QSY up to 147.42, 45, 48, 51, 54, or 58. If you have 220 and 450 FM you will find activity on 223.5 and 446.0. I don't imagine too many have 6 meter FM, but if you do, listen or call on 52.525.

Activity hours for the VHF Bands are:

6 meters — 6-7 a.m. or p.m.

2 meters — 7-8 a.m. or p.m.

220 Mhz — 8-9 a.m. or p.m.

70 Cm — 9-10 a.m. or p.m.

902 +— 10-11 a.m. or p.m.

Members of local clubs should try and be as active as possible so your club has the competitive edge in the goal for the Rochester CUP. Fill both sides of your summary sheets and send your contest logs to me. Those that can spend more time might receive a call or note from me indicating your presence is needed at our annual awards meeting in April. You may win a plaque for 1st, 2nd or 3rd FM only QSO's. You can get your logs from me by mail (s.a.s.e.) or at the VHF Group meeting January 13 at 7:30 p.m.

I wish all local clubs good luck and I hope activity is better then in the past few years. The Rochester VHF Group needs your support and without it we would not be able to compete on a national basis for a club gavel. We realize that many of you do not like contesting but this one only ties up your simplex frequencies for one weekend each year. *Please* be active and join in on the fun.

73 Not 2 Well Known

OPERATORS WANTED

Jim Stoffel, NS9E is looking for operators to help out in a multi-op effort for the VHF Sweepstakes January 13 - 15, 1989 at the club station K2JD. If interested contact him on the 28/88 repeater or 325-7500 (days) or 473-7313 (evenings).

RaRa RAG 8

THE RaRa RAG 20 YEARS AGO — JANUARY 1969

by Ed Gable, K2MP

A record amount of pennies, 112,757 to be exact, was collected in the just completed Christmas season charitable pennython. Some 47 Amateurs took place by collecting the pennies pledged by people calling the WHEC broadcast. Program Chairman Al Mumby, WB2MCP, promises a shocking meeting for January as a Mr. Leo Hnyda, a safety engineer with Eastman Kodak, speaks on electrical safety. The Valentine Dinner Dance, RaRa's social highlight of the year, is scheduled for February 15th. Robert Gross, WB2RVV, is the Chairman. In his *Up and Up on VHF* column, Ed Gable, W2MPM, urges everyone to take place in the upcoming VHF SS Contest. The Rochester VHF Group took 2nd place nationally and is winning for number one. Logs should go to contest chairman Chuck Oneske, K2YCO. Gordy Wendall, W2FDI, honored the last meeting of the RVHFG with another outstanding talk on VHF antennas. Exciting news was also reported as Henry Blodgett, W2UTH, made the first ZD8/USA QSO on 50 MHz. An editorial comment regarding the use of all borrowed commercial HP equipment to set a 40 GHz QSO record asked if this was truly Amateur activity. Finally, a sign of the times as the Rochester Radio advertisement now reads in part ... "*get expert advice from our countermen who speak with authority and know-how on CB...*"

ASK ELMER

Again if you have a problem — technical, operating, or help with antenna installation RaRa is attempting to provide assistance to new Hams, handicapped hams or any hams in need of a boost.

You can call Dave at 244-1856 or write to "Ask Elmer" in c/o of RaRa at P.O. Box 1388, Rochester, NY 14603. Every effort will be made to provide the assistance required.

Advertisement

HEATH/ZENITH

Zenith - Apple - Heathkit - Epson
Computers - Printers - Software - Accy

AMATEUR RADIO ACCESSORIES

Heathkit - Cushcraft - ARRL
Ameco - Van Gordon

(716) 424-2560

937 Jefferson Road

Rochester, NY