



# the RARRA RAG

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**ROCHESTER AMATEUR RADIO ASSOCIATION, INC.**

VOL. 42

NOVEMBER 1989

NO. 3

## GOING, GOING, GONE ....

The next meeting of RaRa will be the annual November Auction. As usual, Dick Goslee, K2VCZ, and Ed Gable, K2MP, will swing the gavel on November 3rd at 8:00 p.m. The auction will be held at the **POLICE and FIRE ACADEMY** on Scottsville Road. There is a sign on the east side of the road and the driveway is located just north of the Burger King.

The doors will open at 7:00 p.m. for sellers to bring in their equipment and for buyers to inspect the bargains. Current RaRa membership is required to enter the building and you may pay your dues as you enter if you have not already done so. Each member may bring one guest.

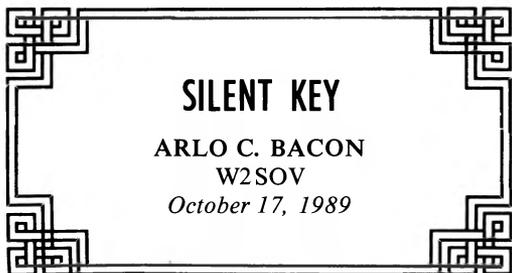
The auction is meant as a vehicle for amateurs to exchange used equipment, so please leave the boat anchors at home, or by the curb in front of your house. All equipment sold at the auction will be subject to a 10% donation of the selling price to RaRa.

So come out – watch the excitement – join the bidding – take home a treasure – and support your club.

## ILLEGAL CB EQUIP SEIZED

Philadelphia office of FCC and US Marshals seized 200 pieces of electronic equipment worth an estimated \$30,000 from Jade Electronics at Trevoise, Pennsylvania. The items were manufactured in the Far East and capable of operating on unauthorized frequencies in excess of power permitted.

*Tnx ARRL Letter via NARC Radio Newsette*



## RDXA MEETING — NOVEMBER 21

A great meeting is planned for all DXers and Contestants at 7:30 p.m., 111 Westfall Road, Tuesday, November 21.

Experts from Greater Rochester Cablevision will present a program about what they do to keep their signals clean, so that they do not interfere with other services like ham radio. We will learn what to do if we encounter cable interference and whom to contact.

All club members operating in the CQWW contest (October 28-29) should bring their logs; how much better will RDXA as a club do than last year?

Our Historian will also review the 40 year club history; join us for a great evening!

## DIRECTORY

It's getting close to the time to print the annual RaRa Directory of all licensed amateur radio operators in the 144 - 146 zip code area. To make sure you are listed correctly please take a minute and check the mailing label on the envelope that your RAG was delivered in. Is all the information correct? If there are any errors please fill out the form shown below and return it ASAP.

Call: \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_

State: \_\_\_\_\_ Zip: \_\_\_\_\_

Please return by November 6, 1989 to:  
RaRa Directory Editor  
Richard A. Goslee  
24 Elaine Drive  
Rochester, NY 14623-5306

# the **RaRa Rag**

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Amateur Radio News Service

## THE 18/78 GREECE REPEATER GETS A FACELIFT

To members and non-members alike, the Greece Repeater Group would like to announce that a totally new repeater system is being installed. The new Hamtronics REP-200 Repeater will replace the existing Hamtronics REP-100 that was installed about 5 years ago.

The new system will boast a microprocessor controller, a UHF to VHF downlink, increased receiver sensitivity and improved autopatch function.

Since the WA2MXL repeater shares the frequency with VE3MOT repeater in Toronto we occasionally have an interference problem, as do most of the Monroe County repeaters. The new Greece Repeater will now have a touch-tone access system that will be utilized during these interference times. The access code 007\*, can be used to bring up the repeater when it is operating in this mode. Remember, the repeater will only be in this mode if an interference problem exists, at other times straight carrier is all that will be required to key the repeater. Once the tone sequence is entered the repeater will remain open as long as users continue to pick up the repeater after the courtesy beep. If the tail is allowed to drop in this mode the tone sequence will need to be re-entered. This is by no means an attempt to preclude anybody from using the repeater. The Greece machine is always open to all amateur operators.

As always, the repeater is available to groups that may be performing special public functions. During such times, the autopatch could be opened up so that utilization during the event is possible. Anyone wishing to use the repeater/autopatch for special public functions can contact either myself, Bob Phillips, WA2MXL, or Van, N2BNE.

All amateurs who are currently members in good standing will be receiving a letter briefing them on the new repeater and its operation. Any member who does not receive a letter, or any amateur who would like more information on the repeater can once again contact Van or myself.

The Greece 147.18/147.78 Repeater is on the air for enjoyment of all, so please feel free to use it.  
*73's, Bob Phillips*

## FOR SALE -

Gotham aluminum Quad. 10-15-20 - \$30.00.  
Call W2WQV - 337-5531.

# FALL 89 CODE AND THEORY CLASSES STARTED

by Ed Gable, K2MP

Off to a good start are the Fall classes with sessions being held for 5 and 13 WPM code as well as Novice and Tech/General Theory. We want to welcome all of the new RaRa members as part of the Classes.

Bob O'Connell, NF2Z, Novice Class Director, is doing his usual outstanding job of getting the class organized. Bob had to work extra hard this season as the Novice Question pool is changing in November. This has forced Bob to make certain changes to his well proven and successful class lesson plans. The same condition exists with the Tech/General Theory classes where again, the question pool changes in November. This is more of a problem for the instructors, however. The changes should not effect the students as they are being taught the newest question pool subjects. Joe Phillips, W2DHV, and Bud Young, WA2UGE, continue with their fine efforts on code instruction.

There were too few responses for the Amateur Extra class program and as a result that was dropped. Your Extra Class instructor, however, Dave Schwittek, NW2T, magnanimously offered to meet one-on-one with the two Extra Class applicants to help with specific problems areas.

Classes will run until December 18th.

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## ARRL CONTEST ENTRIES MAY BE SUBMITTED ON DISKETTE

The ARRL Contest Branch can now accept entries for the ARRL November Sweepstakes and other ARRL sponsored contests on IBM compatible MS DOS formatted diskettes, either 5¼ or 3½ inch.

Log information must be in a true ASCII file. The summary sheet may also be in an ASCII file, but paper summary sheets are preferred. The log file should take on the layout of the official forms containing band, date, time on off, time in UTC, number received, call of station worked, check received, section received, multipliers, report sent and points.

For additional information write or call Billy Lunt, KR1R Contest Manager, at ARRL HQ.

*Tnx ARRL Letter*

## RaRa CALENDAR: NOVEMBER 1989

- 1 - West Coast Qualifying Run - starts at 2100 PST
- 2 - First commercial broadcast, KDKA - Pittsburgh, 1920
- 3 - RaRa Auction  
Fire Training Academy  
Scottsville Road - 8:00 p.m.
- 4-5 - ARRL Sweepstakes - CW starts at 2100 Z
  - QST QSO Award Party - Phone 1500 - 2200 Z each day
  - Ten-Ten International Net starts at 0000 Z 11/4
- 5 - Genesee Repeater Association 9:00 a.m. - Perkin's, Jefferson Road
  - Armstrong demonstrates FM for IRE - 1935
- 6 - W1AW Qualifying Run starts at 2200 EST
- 7 - ELECTION DAY
  - DeForest broadcasts AM - 1916
- 9 - Packet Group Meeting - 7:30 p.m. 111 Westfall Road
- 10 - VHF Group Meeting - 7:30 p.m. 111 Westfall Road
- 11 - VETERANS' DAY
- 13 - FULL MOON
- 14 - Squaw Island ARC Meeting - 8:00 p.m. Sheriff's Office, 84 Ontario Street, Canandaigua
- 15 - Kodak Park ARC Meeting - 12 Noon 1st Floor, Building 28
  - Drumlins Meeting - 7:30 p.m. NYS Disaster Preparedness HQ, Route 31, Newark (across from State Police Barracks)
- 17 - RRRRA Meeting - 8:00 p.m. Pittsford Town Library
- 18-19 - ARRL Sweepstakes - Phone starts at 2100 Z
- 21 - RDXA Meeting - 8:00 p.m. 111 Westfall Road
- 23 - THANKSGIVING DAY
- 25 - CQ WW DX CW Contest starts at 0000 Z
- 28 - NEW MOON
  - W1AW Qualifying Run starts at 1600 EST

# THE RVHFG NEEDS YOU!!!!

by Wayne King, N2WK

Each year the Rochester VHF Group (RVHFG) sponsors a trophy called the Rochester CUP for area clubs to compete against each other during the January VHF sweepstakes. The main reason for this award is to promote local activity on the VHF/UHF bands to help the RVHFG compete for an ARRL gavel against other clubs around the United States and Canada. RVHFG needs all the local support we can muster because quite simply we would not be able to compete on a national basis without your help. Just as RVHFG competes for the ARRL trophy (a gavel) you (area clubs) compete for the Rochester CUP for area bragging rights. The current CUP holder is the Rochester DX Association. Past winners are RaRa (twice) and RRRR. There are also a few individual awards sponsored by area hams and clubs available to those that are *not* members of the RVHFG. If your VHF/UHF equipment consists of only the FM mode you still have a chance to win one of 3 very nice plaques. These awards are for the most FM only QSO's (contacts) 1st, 2nd, and 3rd. Of course the more bands you have the better your chances as demonstrated by last year's winner Pete, WB2SUN, who placed 1st with 200 FM only Q's on 3 bands. In second place was Steve, KD2KQ, with 170 Q's with just 1 band, 2 meters FM only. In third was Curtis, N2HKD, with 2 bands and 121 Q's who finished just 6 Q's ahead of KA2QNT in 4th place. For the YL's we have a plaque for the *top scoring* lady amateur sponsored by K2KWK and his XYL. This YL award is open to all area YL's and last year's winner was Helen, WA2YPT.

The RVHFG appreciates all the support that area local clubs and individual VHF stations have contributed over the years as witnessed by last year's record breaking score of 1,127,992 which topped the *Medium Club* category and landed the RVHFG its *second* ARRL gavel since 1986. Rochester area VHF'ers can be proud to have contributed to the RVHFG success. We are very proud to have *you* on our side and we invite every member of RaRa and other area clubs to "*join*" the RVHFG. The RVHFG over the past 4 years has tried to instill the VHF sweepstakes as a fun thing to do for area hams by creating (thanks to WB2ELB) the CUP so you can work at a goal as a team with your favorite club and still have a shot at an individual award. Last January you rose to the occasion as 12 clubs entered with 9 qualifying (3 logs min) and 76 stations to set a record of your own. Congratulations. We (RVHFG) hope you will set another record in 1990. Each year the

CUP is passed to the new winner. If a Club wins it 3 years in a row they get to keep it permanently and a new cup will be presented to the winner the following year.

For years (29 to be exact) the Rochester Area has supported the RVHFG in its dream to defeat the Mt. Airy VHF Club better known as the famous Pack Rats from the Philadelphia and southern New Jersey area. We have never been able to defeat them but came as close as 60K in 1978 with over 200 logs submitted in the *Unlimited Club* category. In those times rules were such that we could use all logs submitted to us from Rochester area VHFers. Now with the recent rule change by the ARRL you *must* be a member of the RVHFG and also attend at least 2 meetings per year or *one* meeting prior to the contest if you are a new member or are rejoining after more than 12 months of being absent for your score to count for the RVHFG. We appeal to you to go the extra mile and join the oldest VHF club in the U.S. (going into our 41st year) and help us become the force we once were. Our yearly dues are \$5.00 and still one of the lowest if not the lowest in the area and we hold many club functions throughout the year. We publish a monthly newsletter dedicated to VHF and above with many helpful hints to enhance your operating skills on the higher bands and our awards program is second to none for recognizing the efforts our members put forth each year. Our 40th anniversary and awards banquet was such a huge success that the club has voted to make it an annual event. We have a picnic each June (this past June held at the AWA) and we co-sponsor the March Auction with the RRRR. We team up with the RDXA for Field Day and we are planning a hilltop multi-op operation for the June VHF QSO party. They are many ongoing construction projects in the works such as the 902 and 1296 MHZ transverter projects. Members can purchase top quality parts from the club at reduced rates. The RVHFG has made many new changes to conform to the times and we have many new faces with over 100 paid up local members for the 1989-90 season. You can meet many of our members at our booth at the Rochester Hamfest. Our meetings are held on the 2nd Friday evening of each month with the exception of June, July and August at 111 Westfall Road (home of RaRa club station, K2JD). In the past year or so we have had some great presentations at our meetings with guest speakers from Texas, Al Ward (WB5LUA) and from up in northern New York, Dr. Mike Owen (W9IP). RVHFG officers for 1989-90 are: Chairman: Dave Halladay, KD5RO; Vice Chairman: Mark Wessabauer, KD2YB; Secretary: Ron Lawson,

NA2O; Treasurer: Kevin Kinnally, KD2TJ; Newsletter editor: Bruce Sidari, WA2TMC; and Contest Chairman: Wayne King, N2WK. To join please make your check or money order for \$5.00 payable to the Rochester VHF Group and mail to Bruce Sidari, 111 Linwood Avenue, Albion, NY 14411. No matter what your VHF interests are, please join us. Come and see what were about.

73 from Not 2 Well Known.

## UP DATE FROM RRAA

By the time you read this the new 28/88 repeater, should be on the air. The CH and KO receivers should be up and running. Auto patch and weather and many more functions will be on line. It was a long wait, but well worth it I hope.

From one VHF repeater to a whole bunch of repeaters, VHF and UHF.

146.88 at Cobbs Hill, with a voting receiver at KO. REPEATER

224.90 at Cobbs Hill, with a control patch to 146.88. REPEATER

224.58 at EK, with full capabilities tied to 442.80. REPEATER

442.70 at South Site, with user controller. REPEATER

442.80 at EK, with user controller, patched to 224.58. REPEATER

In the works:

A 10 channel, 10 meter ssb, user controlled, on a vertical antenna, at the repeater site.

A North East Site tower, for a voting receiver, and a UHF Repeater.

A new VHF Repeater.

Full user controller to link any, or all the Repeaters together.

Thanks to all out members for being so patient.  
Len "WA2ZNC"

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## NEW PREFIXES IN THE PACIFIC

The ITU has allocated the call sign prefix V6 to the Federated States of Micronesia (formerly one of the users of the KC6 prefix). Amateur stations will use call signs V63AA through V63ZZ.

The call sign prefix V7 has been allocated to the Republic of the Marshall Islands (formerly KX6). Amateur stations will use call signs V73AA through V73ZZ. (Per the US Dept. of the Interior 7-12-89)

Tnx ARRL Letter

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WANTED: Heathkit power supply HP-23, for H-Kit Transciever HW-101. 716-544-8911, Bob, KA2EFF.

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## THE COMMUNICATOR CLASS

The ARRL maintains that the Communicator class ticket is *not* an entry-level license in the same sense as the Novice class license. Earning the new codeless license would require the applicant to pass a written examination somewhat more comprehensive than the present Technician class theory examination, including some questions relating to Morse Code, but without a Morse receiving, sending or recognition requirement. The code questions would be on the tradition and utility of the Morse code.

Three accredited volunteer examiners from the VEC System would administer the examination, and upgrading to a Technician class of license similarly would involve taking a five-word-per-minute code examination similarly administered. "The need for absolute security, and the perception of the same, is critical not only to the success of the program in fact, but also to its acceptance among present licensed amateurs. The amateur community must be convinced that the new licensees obtain their licenses through a rigidly monitored, publicly administered examination program, in order that it avoid, and be perceived to avoid, compromise. The license carries with it privileges not available to Novice licensees, and as such is properly included in the VEC program".

"There should be an upgrade path from the Communicator class of license to the present Technician license by way of a five-word-per-minute Morse code examination element, administered through the established Volunteer Examiner system". The petition clearly states that all Communicator and Novice licensees would have to be retested under the VEC program at 5 WPM code before they could qualify for a Technician ticket.

"No credit for element 1(A) shall be afforded those seeking a Technician class operator license on or after the effective date of the Communicator class operator license by virtue of the possession of an unexpired license which incorporates that element". It will be interesting to see what Novice level and VEC System examiners think of that proposal. ARRL said Communicator applicants would be required to pass the current 30 question Novice written test element 2 and a beefed up 30 question Technician element 3(A) written examination to obtain a Communicator license. The present element 3(A) contains 25 questions. The additional five questions would be on: **Amateur digital communications techniques** (3 questions) and two questions on the: **Use and application of Morse code**.

It is unclear if this would require increasing the

nine examinations topics to eleven to insure their inclusion in written tests or whether these questions could be added to the existing "operating procedures" and/or "signals and emissions" subelements. Specific questions merely added to existing subelement pools need not be asked in all examinations.

Communicator privileges would be all amateur frequencies and authorized modes above 220 MHz, at a maximum output power of 250 watts. "There is a perception that the VHF bands below 220 MHz are overcrowded, or are otherwise inappropriate for Communicator use. The League ascertained that there exists a great deal of acceptance of a code-less amateur license if the privileges were limited, as proposed, to frequencies above 220 MHz".

The ARRL also believes "... there should be a strong incentive (such as the attainment of 2 meter privileges) for codeless licensees to upgrade their license class...". A Communicator licensee may not be a control operator of a repeater or auxiliary station. With respect to power levels, the League saw no need to permit the Communicator class licensee to operate at greater than 250 watts PEP output, given the frequency bands available. "... greater power can be reserved for higher-class licensee, so as to create incentive to upgrade".

Call signs would be assigned from the Commission's "Group D" block; 2 prefix letters, one call sign region number and three suffix letters. "This is most important, as the goal of the codeless amateur license is to bring such licensees into the 'mainstream' of the Amateur Radio Service, and to encourage them to upgrade their license class. It is thus important not to 'label' these licensees as distinct from other entry-level amateurs, or attach a stigma to the license class".

*Tnx W5YI REPORT, September 15, 1989  
via Spurious Emissions*

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## SOLDER WICK PROBLEMS..????

As one who has been using solder wick for the last 15 years or so.... I have had trouble getting an I.C. or similar device off a board using solder wick. As per the instructions I had been laying the wick flat beside the hole and fiddling until it was clear of solder. However this is not the best way to use the stuff as I recently discovered. Put the wick vertical to the hole and use a hot fine tip iron and watch the hole clean out! You may need to clip off 1/4 inch of wick after each try but it works like a charm! It seems that the fine strands on the end of the wick pick up the solder much better than the flat braid. Try it... You'll like it!

*73 John VE3AMZ @ VE3EUK  
Waterloo, Ontario via Smoke Signal*

## RaRa JACKETS

by Irv Goodman, AF2K

I'll be taking orders for RaRa jackets at the Auction, November 3rd.

The traditional plain style features full cut, water repellent oxford nylon with byron collar, two pockets, drawstring bottom and elastic cuffs, and will be available in both dark green and gold as follows: Unlined \$20.75; Spring kasha lined \$28.75; Winter pile lined \$31.75.

The popular striped trim style includes most of the above features, but will be available in dark green only, with the gold/white striping on byron knit collar, knit cuffs and waistband. Kasha lined \$40.00; Quilt lined \$42.50.

Jackets are available in all adult and youth sizes, and prices include the usual customizing, with your name and call sign if desired. If you cannot attend the Auction, I'll be accepting mail orders through November 8th only. Send a check for the full amount payable to RaRa to Jackets, I. Goodman, AF2K, 515 Drumm Road, Webster, NY 14580-1512. Be sure to specify size, color, lining and customizing, and please include your telephone number. For further information, call (716) 671-4430.

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## FEMA OFFERS EMERGENCY PREPAREDNESS GUIDE

*"Millions of Americans Have Experienced Disaster—Are You Prepared?"* This is the title of the July 1989 publication offered by the Federal Emergency Management Agency (FEMA). This 18-page booklet reviews the Civil Defense organizations in the country, how they work in times of natural and man made disasters, and heightens public awareness of the value of such an organization in their communities. At the end of the brochure is a list of additional *"Self-Help"* publications such as *"In Time of Emergency—A Citizen's Handbook"*, *"Planning For Survival"* and *"Emergency Preparedness Checklist"*. An order form is included.

FEMA is responsible for a wide range of emergency planning and response activities. They work with state and local governments as well as national organizations to help communities plan for emergencies of all types.

*"...Are you Prepared?"* may be obtained at no cost by writing to: FEMA, P.O. Box 70274, Washington, DC 20024.

*Tnx ARRL Letter*

## THE RaRa RAG 20 YEARS AGO — NOVEMBER 1969

by Ed Gable, K2MP

November 22, 1969, is a date many will remember as the start of *"Incentive Licensing"*. On that date the new Advanced Class License was put into effect as well as new band segments for others. Membership Chairperson Joan Vogt, WA2YTK, announced 25 new members including such notables as Alan Cook, K2MPE; Richard Booth, W2SAM; Dick English, WB2FAN; Marv Vinkey, K2DPW; and Ed Wendall, W2AKM. An area 1296 Mcs record was made when Chuck Oneske, K2YCO, contacted VE3DKW on that band. Bob Gross, WB2RVV, penned the continuing three part articles on area MARS activity. Bob wrote of the newest service, Navy-Marine Corps MARS. The November meeting was announced as being the annual Ham Radio auction.

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## W1AW REDEDICATION

More than 20 people from all across the nation gathered at The Hiram Percy Maxim Memorial Station, W1AW, for its rededication on July 20. Rev. Michael F. Mullen, C.M. (WB2GQW), 1987 recipient of the ARRL International Humanitarian award, given the invocation. ARRL President Larry E. Price, W4RA, was Master of Ceremonies and opened the event with comments of welcome.

Other guest speakers included Steven Bafundo, President of the Newington Chamber of Commerce, Bobby Baines and Michael Riley, KX1B, of the American Red Cross, ARRL Honorary Vice President George Hart, W1NJM, Paul Perakos, Assistant Treasurer for the Connecticut Bank and Trust Company (CBT), and Fred Hammond, VE3HC, President, Hammond Manufacturing Company, Ltd.

On behalf of ARRL staff, David Sumner, K1ZZ, ARRL Executive Vice President, stated that the HQ staff was proud to be a part of a 75-year tradition. He went on to say, *"W1AW is a monument to one man, Hiram Percy Maxim, without whose vision, ARRL and probably Amateur Radio itself would not exist. The renovated station is testimony to the love of that man, and of what he created, that is felt by thousands of people in this country, and overseas"*.

President Price then cut the ribbon and W1AW was open for tours by the guests in attendance. A number of on-the-air contacts were also made from the newly renovated W1AW.

*Tnx ARRL Letter*

# SWIM, BIKE, RUN

by Ed Gable, K2MP

SWIM, BIKE, RUN – that’s the theme of a group of dedicated athletes who like to be called “*tri-athletes*”. For several years RaRa has been involved with providing public service communications for the Hamlin Beach Triathlon and for the first time this year added the Irondequoit Triathlon to the list of events. Radio communications is a critical part of the planning and administering of these events for the protection and safety of the participants. Communications must be maintained along the swim course, along the 56 mile bike course, and during the run to assure medical attention is immediately available. At six of the eight Triathlons that we participated in, Ham radio was directly responsible for dispatching ambulances which did result in transportation of injured triathletes to area hospitals. As is often the case, Ham radio also goes a long way in providing event coordination which would not be possible without the communications we take for granted.

Chairing these events has been Ed Gable, K2MP. This year, for the Hamlin Beach Triathlon, Val Christian, N2EPO, was the Co-Chairman. Assisting in the two 1989 Triathlons were: Lloyd, WB2EFU; Bill, WA2CER; Pete, WB2SUN; Van, N2BNE; Bud, WA2UGE; Chet, WB2MDO; Doug, KA2APP; Burt, N2HXJ; Clark, KB2HOL, and Dave, N2CTC.

In a recent letter, Gary Austin, Irondequoit Race Director, who likes to call us “*the radio guys*,” said, “... *We could not have done it without you...*” In emphasizing the point he sent RaRa a check for \$25.00 as a donation.

If you’re interested in these fun events for the summer of 1990, give Ed Gable, K2MP, a call or sign up at one of the RaRa meetings. The events are fun and offer a good first time public service communications experience.

# PART 97 RULES COVERING INTERNATIONAL RADIOCOMMUNICATIONS

The FCC has issued a Public Notice concerning communication with amateur in foreign countries. Here is a recap.

• **Permissible countries:** Section 97.111 states when the administration of a country objects to its amateurs contacting US hams, it becomes a “*banned country*”. Currently there are no banned countries.

• **Prohibited transmissions:** Section 97.113 says that communications for the purpose of facilitating the business or commercial affairs of any party is prohibited. Use of amateur communications as an alternative to other broadcast, common carrier, maritime, land mobile or other authorized radio services is also prohibited.

• **Third-party arrangements:** Section 97.115 “...authorizes an amateur station licensed by the FCC to transmit messages for a third party to any amateur station within the jurisdiction of a foreign government whose administration has made arrangements with the United States to allow amateur stations to be used for transmitting international communications on behalf of third parties”.

Countries that have made the necessary arrangements with the US to permit third-party messages are: Antigua and Barbuda, Argentina, Australia, Belize, Bolivia, Brazil, Canada, Chile, Colombia, Costa Rica, Cuba, Dominica, Dominican Republic, Ecuador, El Salvador, The Gambia, Ghana, Grenada, Guatemala, Guyana, Haiti, Honduras, Israel, Jamaica, Jordan, Liberia, Mexico, Nicaragua, Panama, Paraguay, Peru, St. Christopher and Nevis, St. Lucia, St. Vincent and the Grenadines, Sierra Leone, Swaziland, Trinidad and Tobago, United Kingdom (special event stations with call sign prefix GB followed by a number other than 3), Uruguay, and Venezuela.

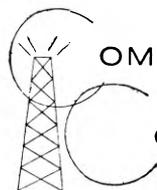
United Nations stations 4U1ITU in Geneva, Switzerland and 4U1VIC in Vienna, Austria, have also made arrangements with the US to permit third-party communications.

*Tnx ARRL Letter*



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