



the RARA RAG

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Volume 36 No. 6

COME TO THE VALENTINE DINNER PARTY!

The February RaRa meeting will be your last chance to purchase Valentine Dinner Party tickets. This annual event is Saturday night, February 11 at the Holiday Inn - Airport.

Three choices are featured on the menu: Roast Top Sirloin, Broiled Fillet of Sole, or Baked Breast of Chicken Normandy.

Entertainment will be provided by Jerry Arget-singer. You may have seen his magic act at the Marriott during the Hamfest several years ago.

Tickets are only \$15 each, so come and join your friends in an evening of good company, good food and much merriment! We need your support to make this event a success.

February 11 is the second Saturday, and the Holiday Inn Airport is located at 911 Brooks Avenue at I-390. Contact any officer or board member for tickets.

TEN YEAR HAM LICENSES ISSUED

The Commission has commenced issuing new, modified and renewal amateur radio station licenses for **ten year terms**. The longer-term licenses were authorized in rule amendments adopted by the Commission on October 6, 1983.

Before the rules were changed, an amateur license was issued for a five year period. Issuance of ten year licenses was delayed so that necessary changes could be made in licensing (computer) programs. (PR Docket 83-337)

There will be a **two year grace period** for both expired ten year station and operator licenses. Previously there was a one year grace period for station licenses and for an amateur operator license, five years.

The Commission emphasizes that the ten year license term is **not a blanket extension** of existing station and operation licenses. An amateur license that specifies less than a ten year term will show a ten year term on the face of the license when it is either modified or renewed.

RaRa MEETS FEBRUARY 3rd

The February meeting of RaRa will take place at the 40/8 Club, 933 University Avenue., 8 p.m. on February 3rd.

According to Vice President Ray Roberts, WA2SSU, the program hasn't been firmed up yet, but it will either be a slide show recounting how Thanksgiving is celebrated in Mendon, or a "X" rated movie entitled "*DXing on Your Honey-moon.*"

All this plus our fabulous refreshments, thanks to George Muller, WA2IEO, and an awards presentation by Don Drennan, W2EBF, should make this a memorable meeting no matter what happens.

An extra added attraction this month will be the sign-up sheets for all the public service projects we have scheduled to date. Ed Holdsworth, N2EH, will be passing out pencils so that everyone will have the opportunity to sign-up. So don't miss this one!

COMPUTERS TOPIC AT JCC-ARC MEETING

by Dave Rubin, N3CKN

The JCC Amateur Radio Club will meet on Sunday, February 26th, at 2 p.m. The featured speaker will be Ron Jakubowski, K2RJ, who will speak on *Applications of Computers in Amateur Radio.*

Everyone is invited to attend, both members and non-members. The meeting will be held at the Jewish Community Center of Greater Rochester, 1200 Edgewood Avenue.

SILENTS KEYS

K2SQH, Theodore E. Kimmerly
WA2IJC, Carlton P. Bonyton

the **RARA RAG**

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PRESIDENT'S CORNER

by Bill Thiel, K2KGE

CQ all romantics and romanticists!

February, because of Valentine's day is generally considered the month of romance. But hams are romanticists the year round. Listening for and talking to people in exotic, far-off places (Tahiti on HF; Chicago on VHF) is a great pre-occupation of most hams.

Sometimes we wonder what it's like in those far-off places. We use our imagination to visualize a chap, in say, Tahiti, wearing a flowered shirt and sitting under a palm tree by the ocean while operating the rig. Nice thought-especially in February.

One of the reasons many of us belong to the club is to have the opportunity to meet with the other romanticists in the area each month. It's a great chance to share experiences.

In a special way, our annual Dinner Party provides an opportunity to share experiences and have some fun. We get a little dressed up (flowered shirts if you really want to), bring along another person who shares the rest of our life, and enjoy an evening. For those of you whose "other person" may be concerned, there usually isn't much "radio talk" at this one - just the romanticist stuff.

This is my personal invitation for you to join in on February 11th. The price is good, the company excellent. Hope to see you there.

RRRA NEWS

by Ron Jakubowski, K2RJ, Technical Director

I sincerely hope that by the time you read this the Fuzz-Buzz will be back in operation. I must apologize for the long delay, but the project expanded in complexity more than I had anticipated and the amount of time I could devote decreased proportionately. In other words, Murphy at work!

As of this writing, the tone decoder and logic has been debugged and tested, and the auto-dialer has been programmed to put out the correct touch-tones. I have several more hours of debugging (and correcting) the circuitry before I can give it the ultimate test - plugging it into the repeater.

To complicate matters, I have been informed that the repeater must be moved to a different location in the Cobbs Hill building. I hope this will not cause any further delays in returning the Fuzz-Buzz to operation.

VHF GROUP NEWS

by Ed Maher, WB2ZJY

The January meeting was our first meeting of the 35th year of the group. We still have several charter members attending the regular meetings. Our hat is off to such loyalty over the years.

In the latter part of January prior to the February meeting, the officers of the group will have met to plan for the balance of the season. A few statistics to bring you up to date. Attendance runs between 18 and 30 per meeting depending on weather. Newsletter circulation is 79 paid subscriptions both individual and commercial. Our treasury, at the December meeting, was \$149.00. I would say that the group is healthy.

At the forthcoming meeting of the officers we will consider the following:

1. A special celebration of the 35th year of the group. Hopefully we can encourage existing charter members to attend as well as others.
2. Our February program has not been decided yet.
3. In March we hope to join RRRR in a joint auction venture. Ed Kohl and I have requested permission to join RRRR in the planning.
4. We need to consider the method of choosing new officers for the group for the 84/85 season. Should we use a nominating committee and also nominate from the floor, or just nominate from the floor? Being an officer in the group does mean extra work. Someone is needed to be willing to carry on the efforts of many people over the past 35 years, I am indebted to many people. They are making it possible for me to carry out the duties of this office, I am sure the next group of officers will be helped as well as I have.
5. Last May we had a picnic chaired by Tom Richmond, WB2IEY. It was a fun time and should be considered again this year.
6. Tom Richmond, WB2IEY, will head up awarding the "Gismo Award". This is given to the person who has done the most for the group in the past year.

Let us hear from you on these thoughts concerning the group.

This year's newsletter continues to be a credit to the editorial staff Bruce Sidari, WA2TMC. He has continued the good work begun by Tom Richmond, WB2IEY. We are also indebted to Irv Goodman, AF2K, for his contribution in the graphics department. It gives the newsletter a professional look.

FEBRUARY RAG CALENDAR

- 3 - RaRa meeting, 8 p.m., 40/8 Club
933 University Avenue
- 8 - RaRa Board of Directors meeting, 7:30 p.m.,
QTH of KA2KGM
- 8 - March Rag Deadline to K2RJ
- 10 - VHF Group meeting, 8 p.m.,
Monroe County Social Services Building,
111 Westfall Road
- 11 - Annual RaRa Valentine Dinner Party,
6:30 p.m., Holiday Inn - Airport,
911 Brooks Avenue
- 14 - RDXA meeting, 8:15 p.m., Colonial Hotel,
1127 Empire Boulevard
- 17 - RRRR meeting, 8 p.m., Pittsford Town Hall
- 22 - Kodak Park ARC meeting, 12 p.m.,
WB2WXQ Club Station meeting room
- 26 - Special JCC-ARC meeting, 2 p.m., Jewish
Community Center, 1200 Edgewood Drive

COP'S CORNER

by Howie Davies, N2CUN, RPD

How to go on ice and snow

Icy surfaces make steering difficult. Slow down *before* reaching curves. It may be necessary to creep around curves to avoid sideskids. When entering a curve turn the steering wheel gradually and no further than necessary. On icy curves traction may sometimes be improved by using the shoulder.

If the rear of the car starts skidding, release the accelerator and steer the front of the car in the direction the rear is skidding. Just as soon as the car starts to straighten out, straighten the front wheels. Don't oversteer.

On a winter day when the road surface is clear, watch for icy patches in shaded areas as beneath overpasses and on bridges. These can easily cause a skid if you are going too fast.

Slippery surfaces require longer stopping distances. Test your brakes frequently at slow speeds on a level area to get the feel of a slippery road. *Remember* it takes nearly 10 times as far to stop from a given speed on icy than it does on dry concrete. Watch ahead for icy patches at intersections, hills and curves.

On glare ice at 20°F it takes the following distances to stop from 20 mph for a car with:

Regular tires - 195 ft.

Snow tires - 174 ft.

Reinforced chains - 77 ft.

Don't tailgate, and safe driving to one and all.

QUOTABLE QUOTES

from "Radio Communication"
Radio Society of Great Britain

"It was the amateurs who discovered the extraordinary suitability of very short waves for long-distance propagation.....no subject seems to have been more fortunate in the assistance rendered to it by amateur experimenters than that of wireless transmission" – Professor E. V. Appleton, FRS, of Appleton-layer fame, at a British Association meeting in Bristol, 1930.

Praise indeed, but even experts are not always so perceptive, Dick Biddulph, G8DPS, has drawn attention to anthology compiled by R. L. Webber, a random walk in science, from which are taken: *"I am tired of all this thing called science.....we have spent millions in that sort of thing and it is time it should be stopped"* – U.S.A. Senator Simon Cameron (1901).

"There is no plea which will justify the use of high-tension and alternating currents, either in a scientific or a commercial sense. They are employed solely to reduce investment in copper wire and real estate" – Thomas Edison, advocate of dc mains supplies in 1889.

"As far as sinking a ship with a bomb is concerned, you just can't do it" – U.S.A. Rear-Admiral Clark Woodward (1939).

"That is the biggest fool thing we have ever done. The bomb will never go off, and I speak as an expert in explosives" – U.S.A. Admiral William Leahy on the atomic bomb (1945).

"Even if the propeller had the power of propelling the boat, it would be altogether useless because the power being applied in the stern it would be absolutely impossible to make the vessel steer" – Sir William Symonds, Surveyer of the Royal Navy, on a proposal to drive a steam-boat by a screw-propeller (1837).

And thoughts from other sources:

"The question is whether those at the very forefront of science can foresee the consequences of their achievements. The answer is an unqualified 'No'." – Professor Marie Jahoda, 1982.

"Atomic energy which we may hope to see made available for human use.....destined to provide the salvation of the whole human race" – A. A. Campbell Swinton, 1911, later to be first president of the Wireless Society of London.

Tnx LERC ARC BULLETIN

THIRD PARTY COMMUNICATIONS LIST

On the heels of its latest edition (Grenada), the FCC has published a new Third Party Traffic and Reciprocal Operating Arrangements list.

The United States has arrangements to permit U.S. amateur radio operators to exchange third party communications with amateur radio stations in these countries...

Antigua	and Barbuda	Argentina
Australia	Bolivia	Brazil
Canada	Chile	Colombia
Costa Rica	Cuba	Dominican Republic
Ecuador	El Salvador	The Gambia
Ghana	Grenada	Guatemala
Guyana	Haiti	Honduras
Israel	Jamaica	Jordan
Liberia	Mexico	Nicaragua
Panama	Paraguay	Peru
St. Lucia	St. Vincent and the Grenadines	
Swaziland	Trinidad & Tobago	Uruguay
Venezuela	4U1ITU	ITU station/Switzerland

The FCC also added in their December 22nd Public Notice that "International amateur radio communications are limited by the International Radio Regulations, which state in part that they shall be made in plain language and shall be limited to messages of a technical nature relating to tests and to remarks of a personal character for which, by reason of their unimportance, recourse to the public telecommunications service is not justified. Business messages are prohibited."

"At the end of an exchange of international third party communications, each amateur radio station must transmit the call sign of the foreign station in addition to its own call sign. (See Part 97.84)"

Tnx W5YI REPORT

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LICENSE COURSE STARTS

FEBRUARY 27th

by Ed Holdsworth, N2EH

The spring license classes will start on Monday, February 27, 1984 at 7:30 p.m. They will be held on each Monday evening from 7:30 to 9:30 p.m. at 111 Westfall Road. The last class will be held on Monday, May 14, 1984. We will be offering a Novice Class, Technician/General and an Advance Class. The Advance Class will start on Monday, March 5, 1984 and will be held at the same time as Novice and General classes.

The cost will be as follows:

Novice	Registration	\$3.00
	Books	2.00
	Associate Membership	4.00
Technician/General and Advanced	Registration	\$3.00
	Books	4.00
	Membership	7.00

If you wish to attend any of the classes, it would be appreciated if you would sign up at the February meeting or send a card to: Ed Holdsworth, N2EH, 518 Parish Road, Honeoye Falls, NY 14472. Registration will be on the first night of each class.

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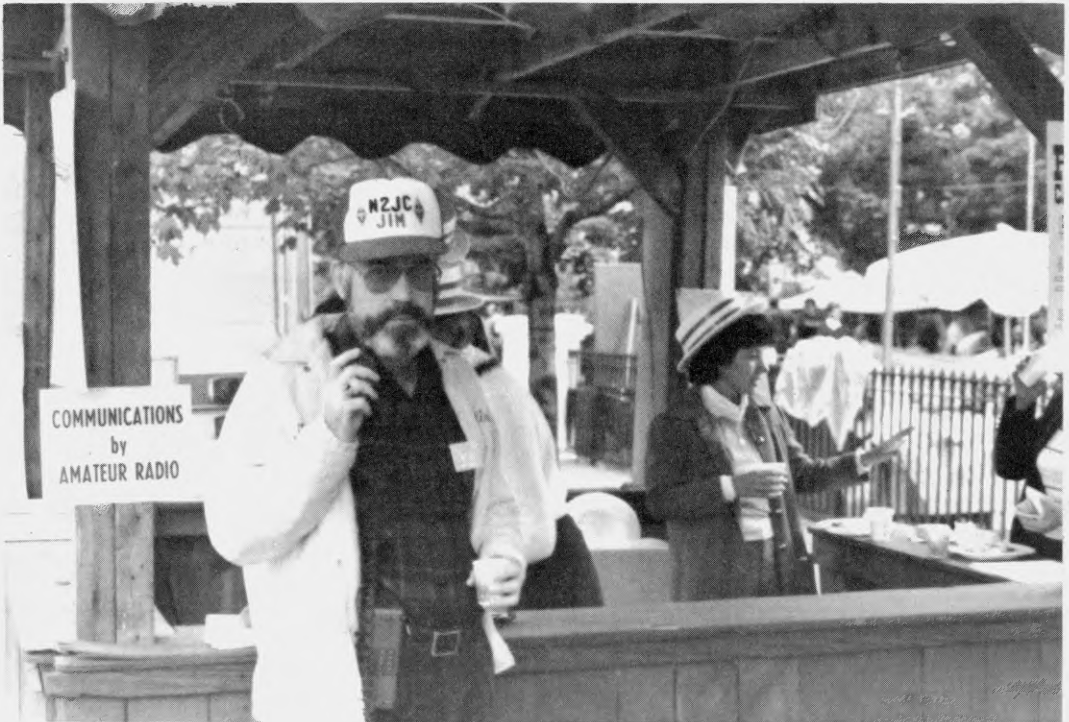
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N2JC Jim Collinworth, active during September 1983 Public Service Event at Palmyra Canaltown Days.

TEL TRAK 2 SYSTEM

by Fred Cupp, W2DUC

As an outgrowth of the November 11 meeting of the VHF Group, which demonstrated digital speech techniques, Radionics Inc. of Webster is offering an opportunity for local hams and their families to use, free of charge, a computerized message system. A series of user I.D. numbers in the range 800 to 850 have been reserved for our use. The system may be called from any touch tone phone (no pulse dialers) at 872-4267. A computerized voice will answer and request an I.D. number.

If you enter the number of a person you wish to contact, it will tell you whether the person is in, or out; available or not available, and where they can be reached by telephone number. If you wish to have the person contact you, you may press "8" and then enter your own phone number. Press "*" again and it will be stored. The procedure is summarized (figure 1).

If you have an assigned number, you can change your status and/or retrieve your messages by preceding your I.D. number with a "*" key. The procedure and status codes are also summarized (figure 2).

When finished with a message, or if you make a mistake, press the "*" key and the system will restart. In this way you can do a series of messages on only one call. Don't be bashful about using the system - we want to get some real life testing in actual use!! You can't break it!

List of currently assigned numbers:

800	KW2T	Dan Pedtke
801	WB2ZJY	Ed Maher
802	K2UW	Rich Koehn
803	W2PHT	Gus Becker
804	W2SNI	Ray Leigh
805	K2JJT	Bob Kester
806	W2UAD	Ken Evans
807	AF2K	Irv Goodman
808	W2DUC	Fred Cupp
809	N2DRJ	Joe Eeckhout
810	WB2QCJ	Dean Keyser
811	WB2JSD	Bill Shaw
812	WB2IEY	Tom Richmond
813	N2DRG	John Eeckhout
814	K2MP	Ed Gable
815	W2VVG	Chet Minges
816	W2GV	Fred Becker
817	WA2ATV	Dick Hilsinger
818	WB2PNN	Bob Hunter
819	WB2JLR	Rich Place
820	KA2KFV	John Lloyd
821	N2BNE	John VanGriethuysen

822	KA2QUZ	Scott Hoag
823	K2OS	Frank Pollino
824	WB2UTM	Tom Perry
825	K2RJ	Ron Jakubowski

If you wish to have a number assigned, please contact either Ed Maher at 217-8976 or Fred Cupp at 872-2100 (days). In this way we can update the list so others will know how to leave messages for you. Have fun with it!

P.S. Bob Kester, K2JJT, gets credit as the first one bold enough to use the system!



STATUS INFORMATION

PLAYBACK PROCEDURE

1. Call TEL TRAK
2. Enter ID Number

MESSAGE ENTRY

3. Press "8"
4. Enter Message (1-16 Digits)
5. Press "*" To Verify
6. Press "*" To Approve, Or "*" To Change

(figure 1)



CHANGE STATUS

1. Call TEL TRAK
2. Press "*" Key
3. Enter ID Number
4. Enter Security Code (If Used)
5. Enter Status Code:
 - 1 - In and Available
 - 2 - In and Not Available
 - 3 - Out and Available
 - 4 - Out and Not Available

If "1" or "3" is used, enter a phone number or location info (1-16 Digits)

6. Press "*" Key to Verify
7. Press "*" To Approve or "*" To Change

FOR MESSAGES

1. Call TEL TRAK
2. Press "*" Key
3. Enter ID Number
4. Enter Security Code (If Used)
5. Press "9"
6. To Cancel Messages, Press "O"

(figure 2)

FOR SALE: Dentron HF-200A Transceiver with remote VFO, AC power supply and Butter-nut vertical. Whole package for \$550. Must sell. Call Charles Frost, K5LBU, 271-8629.

COMMERCIAL COMMUNICATIONS



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AMATEUR RADIO AND THE LAW TO BE MARCH 8 T.R.N. TOPIC

Like it or not, you may find that hostile new laws will determine the extent to which you can configure and enjoy your amateur radio station. For example, local governments may place severe restrictions on your antennas or operations. Furthermore, malicious interference and obscenity may deprive you of the pleasure of operating your station. These are just some of the issues that relate to your future enjoyment of amateur radio that will be discussed by legal experts on the March 8, 1984, North America Teleconference Radio Net (T.R.N.), presented by the Honeywell Amateur Radio Clubs.

The featured speakers will be attorneys: Chris Imlay (N3AKD), ARRL Council; Jim O'Connell (W9WU); Joe Merdler (N6AHU), and Bob Benson Q.C. (VE2VW). These amateurs represent the finest legal talent involved with amateur radio issues. And T.R.N. will bring this concentrated legal expertise and information together for amateurs across North America through over 180 "gateway" stations, mostly VHF repeaters, all linked together for the net. The vast majority of radio amateurs are within range of one of these gateway stations, whether at their home stations or via their mobile or hand-held radios.

Many amateurs will have the opportunity to direct questions to the speakers on the T.R.N. Thus, there will be the opportunity for amateurs to explore the legal experts such questions as cable TV leakage, prosecution for "pirate" TV antennas, the 10-meter amplifier ban, FCC backing of amateur frequency coordinators, requirements for "simpatches", etc., in addition to the issue described above.

So, to hear amateur radio's finest legal talent

AWARDS OFFERED

The Dayton Amateur Radio Association has announced that it will be presenting a new award, the Technical Achievement Award, this year at its Hamvention. This award will be presented to someone who has made a significant contribution to the technical field in Amateur Radio. The Technical Achievement Award will be given this year in addition to the Ham of the Year Award and the Special Achievement Award, which DARA has presented for several years. Nominations for all three awards are due no later than April 1 and should be sent to Awards Committee, DARA, Box 44, Dayton, OH 45401.

Nominations are open for the 1983 Instructor of the Year Award. This annual award, sponsored by the Lake County (Indiana) Amateur Radio Club, is named in memory of Herb S. Brier, W9AD, longtime Novice editor for *CQ*. Send the name, call and address of your nominee to the attention of the Training Branch at ARRL Headquarters. You are encouraged to send supporting letters and material of the instructor's work. Nominations will be accepted until February 15, 1984.

Tnx ARRL LETTER

discuss the legal issues that will shape and define the nature and scope of amateur radio to come, tune into T.R.N. at 7:30 p.m. C.S.T. on Thursday March 8 (that's 0130Z next day). Note that local nets may begin earlier. For a list of stations providing a gateway into T.R.N. check the CompuServe "Hamnet" X10 Database or write the net manager W0TN at 4749 Diane Drive, Minnetonka, MN 55343 (SASE Please).

And also mark your calendar for Thursday June 14, 1984, 7:30 p.m. C.D.T. (0030Z) when T.R.N. in cooperation with CRRL will present international antenna expert Dr. John Belrose (VE2CV).

When AMSAT OSCAR 10 is available for up-linking during the net, the T.R.N. is also expected to be available hemisphere-wide on downlink frequency 145.957 MHz.

Scanner radio owners may also enjoy tuning into T.R.N. to learn about the topic and the fascinating world of amateur radio.

The local Teleconference net can be heard on the 146.19/79 K2SA repeater as well as WB2AQQ on 145.11 MHz. and will start at 8:30 p.m. local time.

AN OPEN LETTER TO MY HUSBAND

(from inCider)

by Janet Schwartz

Courtesy LARK Bulletin, via THE GROUNDWAVE

To my Darling Husband,

I am sending you this letter in a bogus software company envelope so that you will be sure to read it. Please forgive the deception, but I thought you should know what has been going on at home since your computer entered our lives two years ago.

The children are doing well. Tommy is seven now and is a bright, handsome boy. He has developed quite an interest in the arts. He drew a family portrait for a school project. All of the figures were good, but yours was excellent! The chair and the back of your head are very realistic. You would be very proud of him.

Little Jennifer turned three in September. She looks a lot like you did at that age. She is an attractive child and quite smart. She still remembers that you spent the whole afternoon with us on her birthday. What a grand day for Jen, despite the fact that it was stormy and the electricity was out.

I am also doing well. I went blonde about a year ago and was delighted to discover that it really is more fun! Lars – I mean Mr. Swenson – the department head has taken an interest in my career and has become a good friend to us all. I have also discovered that the household chores are much easier since I realized that you didn't mind being vacuumed, but that the feathered dusting made you sneeze.

Well, my dear, I must be going – Uncle Lars – Mr. Swenson, I mean – is taking us all on a ski trip and there is packing to do. I have hired a housekeeper to take care of things while we are away. I hope you and your computer have a lovely time while we are gone. I will think of you often. Try to remember us while your disks are booting.

Love, Mary

FOR SALE: Collins 30L-1 linear amplifier, \$490; Collins 75S-3B, 32S-3 and 516F2, \$760, Collins 312B4 Station Control, \$140. Perfect condition – see and try. Also, Johnson KW Matchbox, \$150.

WANTED: Collins KW-1. Call Ollie, K2BBK, Sunday thru Thursday – 288-3604.



Rochester HAMFEST

MONROE COUNTY FAIRGROUNDS

May 18-19, 1984



ALONG LEAGUE LINES

There are over 6000 cable systems in the United States. Some have interfered with aircraft and Amateur Radio where the cable uses the same frequencies. These cables are intended to be closed systems which neither radiate interference to licensed radio services nor let radio signals in. Cable systems that were improperly installed or have deteriorated with age leak signals which are strong enough to disrupt radio services.

Cable TV signal leakage was the topic of a seminar in August 1983 of members of the Society of Cable Television Engineers (SCTE). Representatives of the ARRL participated in this seminar and explored ways that cable operators and radio operators can cooperate.

The League has filed a petition with the Federal Communications Commission (FCC) asking that cable TV operators be required to discontinue their use of certain radio frequencies assigned to the Amateur Radio Service if their leakage into the airwaves is not curbed. This petition was necessitated by only a small percentage of the same cable operators who are either unable or unwilling to meet existing FCC rules concerning leakage. At the working level, cooperation between cable TV engineers and radio amateurs has been productive in a number of cases; however, cable TV companies at the corporate level must place greater emphasis upon providing the necessary resources to the engineers of their local systems.

Where good communication exists between the amateur community and the local cable company, and where the company makes a good-faith effort to maintain a "tight" system and respond quickly to complaints, cable television and Amateur Radio *can* be good neighbors and partners in public service. If all cable companies willingly met their legal responsibilities, the ARRL petition would have been unnecessary.

Strange Signals in the Ham Bands

by George, WA2RCB - Via SJRA HARMONICS

Have you been hearing unusual signals in some of the H.F. bands lately? Have you heard Spanish-speaking stations in the CW portion of the band? How about what sounds like beacon stations which repeat a single or double letter but give no other ID? Have you ever intercepted a transmission that consisted of a Spanish-speaking woman's voice repeating 4- and 5-digit number groups for as long as a half-hour duration but giving no info as to her location or identify? RTTY transmissions which are way out of shift with the norm for amateur RTTY - why are they sending in the "phone" portion of the band? How about those other signals you hear - the ones that sound like data bursts, fax, clicks, pulses and other modes too numerous to mention here? What are they and who is responsible for them and why are they on amateur radio HF? Are they legal operations or intruders? Are they some kind of espionage activity, drug smugglers, clandestine broadcasters or guerrilla activity? Are they "pirates" who got their hands on easily available ham gear or harmonics from multi-kilowatt utility stations? Can it be "ET" phoning home??? With the exception of our little friend who likes Reese Pieces, any of the above may be the answer as to the identity of these new signals which are starting to appear on some of the HF frequencies.

I will try to explain why these signals are now appearing on amateur frequencies and why their use of amateur frequencies may be on the increase.

Most of what is now happening is a result of the recent WARC-79. This conference did little to help the existing amateur HF bands. However, it did do a massive shakeup of the other portions of the HF spectrum, mainly those used by what are known as "utility" stations. A utility station is one that serves a government, military or commercial interest. Many of these utility stations are migrating to satellite-type operations. However, HF is still widely used for many existing operations. One of the main advantages HF has over satellite is that it is much less costly to put on the air. This, coupled with the many Third World nations' requests to the I.T.U. for frequency space, has laid the groundwork for a scenario in which we may see amateur radio HF bands being "shared" with commercial services. "It can't happen," you say. In case you did not know, some utility stations may even now use amateur radio frequencies for their operations if the situation warrants. (A list of these appears below.) Also, we are not taking into consideration the

many illegal uses of the HF spectrum, amateur and non-amateur, which are now occurring.

Try this on 80 meters. Tune to about 3.636 - 3.639 some night and you will hear one of the many infamous Cuban letter beacons. The beacon signs a letter "U" at about a 3 - 5 second rate. The Cubans have set up dozens of these beacons in almost every portion of the HF spectrum. The Cuban Government will give no explanation as to their purpose and they keep multiplying every year. I will write another article on these beacons in the near future. Some of the info I have received on them reads like it came out of a James Bond novel.

We have barely scratched the surface on this issue, however, don't be too surprised if, in the near future, you hear one of these strange signals, especially on the 80 meter band. They may be here to stay.



80-METER BEACONS AND STATIONS

Freq.	Call	Station and Location
3.607	NRK	U.S.Navy, Grindjavik, Iceland
3.607	TFR2	U.S. Coast Guard, Keflavic, Iceland
3.627	NCI	U.S. Coast Guard, Naples, Italy
3.627	NCI10	U.S. Coast Guard, Rhodes, Greece
3.645	LGP	Bodo Radio, Bodo, Norway
3.650	MKE	Royal Air Force, Akrotiri, Cyprus
3.652	OSA	Antwerp Radio, Antwerp, Belgium
3.690	5BA	Nicosia Radio, Nicosia, Cyprus
3.695	DGC79L5	Deutscher, Wetterdienst, Quickborn, West Germany
3.704	DAN	Norddeich Radio, Norden, West Germany
3.722	FFC	Archarchon Radio, Archarchon, France
3.722	FFU	LeConquet, LeConquet, France
3.722	TKM	Grasse Radio, Grasse, France
3.775	8PX6	Cable + Wireless, Ltd., St. Philip, Barbados
3.795	FFB	Boulogne-Sur-Mer, Le Portel, France
3.795	FFM	Marseille Radio, Marseille, France
3.795	OFJ	Helsinki Radio, Helsinki, Finland
3.799	NCI10	U.S. Coast Guard, Rhodes, Greece
3.822	KSW78	U.S. Embassy, Nicosia, Cyprus
3.975	VHP	Australian Navy, Canberra, Australia
3.980	CNL	U.S. Navy, Kenitra, Morocco
3.990	ZLQ3	Government of New Zealand, Scott Base, Antarctica

Another Service Provided by RaRa

Your club donates a current foreign and United States edition of the Radio Amateur Callbook to the Rundell Library for your use. In turn, the Rochester Public Library provides a service whereby you can all the Science and Technical Department, 428-7327, during the day and they will look up any amateur call sign and provide you with the name and address for QSL purposes.

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FOR SALE: KDK-144 synthesized 2-meter FM with MARS capability. \$195 or best offer. Call Ron Jakubowski, K2RJ, 482-6308.

FOR SALE - Swan 350 transceiver, separate power supply PEP 150 watts output, excellent cond. with manual. \$175 or best offer. Call Dave at 594-9577, KA2RDP.

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