

The RARA RAG

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NO. 2

RaRa MEETS OCTOBER 7th COMPUTER PROGRAM

Have you been thinking about a personal computer for use at home or in the ham shack but weren't quite sure which one would be best for you? Or do you own a VIC-20 or a CoCo or an Atari or a TRS-80 and wonder how other hams are using them? Then come to the 40/8 Club Friday night October 7th at 8 p.m. when Ed Neubauer, N2BXA, will explore the dark mysteries of computers and will line-up several notable area hams to bring in their systems to demonstrate to the group.

The meeting will also feature a short business and committee update as well as an outstanding awards presentation by Don Drennan, W2EBF, and the scrumptious goodies served up by our own chef-extrodinaire, George Muller, WA2IEO. Remember also that dues are now payable, so stop by the membership table too and see Lloyd Caves, WA2EFU.

S.E.T. '83

by Ed Holdsworth, N2EH

The Simulated Emergency Test will be conducted the weekend of October 15 and 16, 1983. The major activity will be on Saturday, October 15, with the exercise itself taking place in the morning and a critique in the afternoon. The scenerio is being prepared by the staff at the Office of Emergency Preparedness and will be designed to test our total response.

I am looking forward to a good turnout at both the test itself and the critique, which will be held in the Auditorium at 111 Westfall Road.

EVERYBODY IS WELCOME

SEE INSIDE
FOR LATEST STS-9
INFO AND MAPS

RaRa DIRECTORIES TO BE MAILED

As an added service to RaRa members, the RaRa Directories will be *mailed* to all *full* members who have renewed as of the mailing date, probably in late November.

This will allow members who cannot come to meetings or who live out-of-town to receive this valuable club benefit which in the past had to be arranged on a case-by-case basis.

However, there will be only *one* mass mailing, so renew early to be sure to get your directory. Directory distribution after the mailing will be handled like it has in the past - either at the meetings, via a friend, or \$.54 first-class postage paid for by the member.

EVERYTHING YOU HAVE EVER WANTED TO KNOW ABOUT THE FCC BUT WERE AFRAID TO ASK !

by Scotty Ross, KZ2U

This is your chance. Jim Taylor and Cindy Tedesco, both from the FCC Field Operations Bureau in Buffalo have promised to attend the October 11th meeting of the Squaw Island Amateur Radio Club in Canandaigua. Jim will bring the group up to date on the latest FCC changes and revisions after which the FCC people will be available for target practice.

The meeting starts at 8 p.m. and is held in the basement of the Ontario County Office Building #2 (County Road 46) about 4½ miles east of Main Street. Turn off Main Street at Saltonstall Street. It is not the easiest place to find but it is as close as your friendly neighborhood 22/82 repeater. Come visit us please.

SILENT KEY

WA2JMH
William J. Ehlers

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LETTER FROM THE EDITOR

Its been a busy month, and I don't see too much relief in sight for a while either! I've been busy catching-up on all the jobs I just couldn't get up the ambition to start during the summer. Getting out the September RAG is always a big job and I would like to thank Bud Young, WA2UGE; Al Komenski, AC2K; Bill Thiel, K2KGE, and his son; Ray Roberts, WA2SSU, and his wife; Dave Bernheisel, N2DPF, and his two children; and my wife Kathy, N2AGQ, who collated and stuffed the 2500 piece issue.

A very special thanks is also due to Herb Jordan, WA2MSA, and his wife Dorothy who spent the better part of a day sticking mailing labels onto envelopes, and to Joel Rossbach, KA2SSD, who delivered the whole mess to the Post Office Weigh Room.

Give them *your* thanks the next time you see them!

K2RJ

PRESIDENT'S CORNER

by Bill Thiel, K2KGE

One of the lesser used facilities available to all club members is club station, K2JD, located in the basement at 111 Westfall Road. The station serves several purposes - it offers a base for disaster drills and public service communications; since it's in the same place where license classes are held, new hams can get a glimpse of a station in operation; it offers casual operating on all bands from 80 to 2 meters.

To use the station, a club member must be checked out on all the equipment and the rules for use of the station. This can best be done on Monday evenings starting September 26th when license classes begin. Either station trustee Ed Holdsworth, N2EH, or technical advisor Ed Gable, K2MP, will be glad to check anyone out. After checkout an authorized station operator will receive a card so stating and can then get a card-key to allow access to the station at any time.

In case you didn't know, the equipment line-up is a TR7A transceiver and SB-200 linear with a TH5 or dipoles for 80 and 40. For VHF there is a TS700 (all mode 2 meter) with vertical and horizontal beams and an 80 watt amplifier. This is good equipment by any measure - if you can hear 'em, you can work 'em.

I personally have used the station on a few occasions - contest and DXing - and can attest to its abilities. If you don't have this type setup at your QTH you might give it a try some afternoon or evening and see what getting out is all about.

COP'S CORNER

by Howie Davies, N2CUN, RPD

The next few articles will be about home security and some ideas to protect your home against one of the most serious crimes that happens every day. Think for just a moment what your home contains. Quite probably it houses most everything you value – sentimentally and financially.

Every year thousands of homes like your are broken into by thieves looking for portable possessions such as jewelry, cameras, firearms, cash, stereos, TVs and Ham gear. Seldom do they assess the value of their haul at the time of the theft, but rather take what looks to be expensive. Both amateur and professional burglars look for the same things to gain a quick and unnoticed entry into your residence:

- The opportunity (e.g. no one home)
- An open, unlocked or poorly secured point to enter.
- Darkness or a form of cover (bushes, etc.)

Take a stroll around your house. Although there isn't a way to completely burglar-proof a dwelling, a modest investment in a security system may well be the best purchase you could make since moving into your house or apartment. Solid doors, deadbolt locks, good lighting and timers are easily self-installed and will stop the vast majority of thieves. In the next article I will be covering locks, doors and windows.

One final note, RT-590 between the "Can" and RT-104 is open to 55 mph, "clean and green", but again monitor your speed wherever you drive. A word of caution, try to avoid St. Paul Street between Clifford Avenue and Bauch Street. Construction on the railroad overpass in front of Case-Hoyt is reducing traffic to one lane in each direction. During the rush-hour this area is a mess.

Thanks to Bud, WA2UGE for the refreshments during the Zoofest weekend!

73, 98 paydaydays to go!

KPAA-ARC OFFICERS

The Kodak Park Amateur Radio Club has announced their 198384 officers:

President – A. G. de Bleeck, KW2X
Vice-President – S. W. Maier, KZ2R
Secretary-Treasurer – G. P. Ahl, WA2JRP
Station Trustee – J. L. Schooley, K2NC
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E. W. Junker, KA2DZC; M. F. Blakley, KC2NU;
J. Mon, N2BHJ; R. Tyson, N2IG; D. Kempf, AC2E.

OCTOBER RAG CALENDAR

- 7 - RaRa meeting, 8 p.m. 40/8 Club, 933 University Avenue
- 10 - November *Rag* deadline to K2KWK
- 12 - RaRa Board of Directors meeting, 7:30 p.m., QTH of K2RJ
- 14 - VHF Group meeting, 8 p.m., Monroe County Social Service Building, 111 Westfall Road
- 18 - RDXA meeting, 8:15 p.m., Colonial Hotel, 1127 Empire Boulevard
- 21 - RRRR meeting, *Transmitter Hunt*, 7:30 p.m., Pittsford Town Hall
- 28 - STS-9 Space Shuttle mission carrying Amateur Radio to lift-off.

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HAPPY BIRTHDAY to Squaw Island
Amateur Radio Club on its 30th birthday
on October 9, 1983.



HAM-IN-SPACE ANTICIPATED OPERATING TIMES RELEASED

from W5YI REPORT

During the recent Teleconference Radio Net, Roy Neal (K6DUE) of NBC News *released the anticipated specific orbits* when Astronaut Owen Garriott (W5LFL) should be operating amateur radio. Roy said, that this was "...last minute information, hastily thrown together... It contains the information that a lot of people have been waiting for... that is the tracking information when we should at least try to contact Owen."

Dr. Garriott says he will *attempt to provide other operating periods* as well, but these will have little advance information. Whenever possible, advance notice will be made via W1AW - the ARRL headquarters station - and (particularly) W5RRR - the Johnson Space Center Amateur Radio Club.

The following United States orbits fall within Garriott's time off period and he has confirmed that we can pretty much plan on him being on the air then. *Rev. 39 and 40* come up on Sunday evening, October 30th and *Orbit 80* on *Wednesday morning*, November 2nd.

It is very difficult at this time to state positively when the space shuttle will be overhead since this must be *predicated on a launch time*. During the recent Teleconference Radio Net, Roy Neal anticipated a noon launch on October 28th. He called me early this week and told me that this was now scheduled for 11:30 a.m. Subsequent phone calls from the Johnson Space Center's Chief, Public Affairs Chuck Biggs (KC5RG), changed this to 11:00 a.m. and finally back to 11:30 a.m. (Four lift-off times within a week!) The point is that once the spacelab mission is aloft, then the times will become firm since the revolutions are *exactly 90 minutes long*.

The STS-8 (the just ended mission) lifted off 17 minutes late and since the spacecraft crosses the entire United States *in 14 minutes or less* you can see the effect of launch time. Orbit 39 begins 2 days, 8 hours and 34 minutes into the mission.

An orbit starts when the spacecraft *passes over the equator*. Sometimes the shuttle passes the equator in this hemisphere and comes up on the United States west to east. Other times it passes the equator on the other side of the world and must go over the top of the earth and to descend on the United States. This means that different times must be added to equatorial crossing times.

Orbit No.	GROUND ELAPSED TIME			Over U.S.
	DAY	HOURS	MINUTES	
2	0	0	26	+ 9-14
3	0	2	55	+11-14
6	0	7	23	+30-32
7	0	8	53	+28-36
8	0	10	22	+30-36
17	0	23	47	+ 9-15
18	1	1	17	+ 9-17
19	1	2	46	+10-17
22	1	7	14	+30-34
23	1	8	44	+28-36
24	1	10	13	+30-36
33	1	23	37	+ 9-15
34	2	1	7	+ 9-15
35	2	2	36	+11-17
37	2	5	35	+30-32
38	2	7	4	+28-32
39	2	8	34	+28-36
40	2	10	3	+32-36
49	2	23	28	+ 9-15
50	3	0	57	+ 9-17
51	3	2	26	+11-17
53	3	5	25	+30-32
54	3	6	54	+28-34
55	3	8	23	+28-36
65	3	23	17	+ 9-17
66	4	0	46	+ 9-17
67	4	2	15	+11-17
69	4	5	14	+30-32
70	4	6	43	+28-34
71	4	8	12	+28-36
80	4	21	36	+ 7-16
81	4	23	5	+ 9-17
82	5	0	35	+ 9-17
83	5	2	4	+11-17
85	5	5	3	+30-32
86	5	6	32	+28-36
87	5	8	1	+28-36
97	5	22	54	+ 9-17
98	6	0	23	+ 9-17
99	6	1	52	+11-17
101	6	4	51	+30-32
102	6	6	20	+28-36
103	6	7	49	+28-36
117	7	4	39	+30-34
118	7	6	8	+28-36
119	7	7	37	+28-36
128	7	21	0	+ 7- 9
129	7	22	29	+ 9-15
130	7	23	59	+11-17
131	8	1	28	+15-17
133	8	4	26	+30-32
134	8	5	55	+28-36
135	8	7	25	+32-36
144	8	20	47	+ 9-15
145	8	22	16	+ 9-15

(Continued on page after next)

STS-9 FREQUENCIES

The two meter space-to-earth and earth-to-space *amateur radio frequencies* were jointly released by NASA and the ARRL. These are the frequencies that Dr. Owen Garriott (W5LFL) will be talking and listening on. These are...

SPACE TO EARTH FREQUENCIES

145.250MHz. 145.530 MHz.
145.550 MHz. (Primary) 145.570 MHz.

EARTH TO SPACE FREQUENCIES

144.650 MHz. 144.700 MHz.
144.725 MHz. 144.750 MHz.
144.775 MHz. 144.800 MHz.
144.825 MHz. 144.850 MHz.
144.910 MHz. 144.930 MHz.
144.950 MHz. 144.970 MHz.
144.990 MHz. 145.010 MHz.
145.030 MHz. 145.050 MHz.
145.070 MHz. 145.090 MHz.
145.350 MHz. 145.450 MHz.

Garriott will be listening on the above earth-to-space frequencies on the odd minutes and replying to those he hears on the space-to-earth frequencies on the even minutes.

STS-9

(Continued from previous page)

146	8	23	45	+11-17
149	9	4	13	+30-34
150	9	5	42	+28-36
151	9	7	11	+32-36
160	9	20	33	+ 9-15
161	9	22	2	+ 9-15
162	9	23	32	+11-17
165	10	3	59	+28-34
166	10	5	28	+28-36
167	10	6	57	+32-36
176	10	20	19	+ 9-15

FOR SALE SACRIFICE - Heathkit equipment, all assembled. DX 60B Transmitter, 10 - 80 meters; HR 10B Receiver, 10 - 80 meters; HR 10B VFO, 2 - 80 meters; HR 10B Matching Speaker unit; HD 10 Electronic Keyer; Code Practice Key; All Instruction/Assembly Manuals. Need the space - Best Offer takes it. Call 394-3417, 'Scotty' Ross, KZ2U.

CLUB TO SELL EXTRA QSL'S

For those of you who may have missed out on the club QSL deal last year, the Board of Directors authorized buying 6000 additional cards to make available to new members as well as those who may have procrastinated. The board has now authorized selling these cards in lots of 250 for \$10.00. If you are interested contact our club president Bill Thiel, K2KGE.

INFORMATION ON STS-9 2-METER ANTENNA

Many amateurs have expressed an interest in the 2-meter ham antenna that Astronaut Owen Garriot will be using in the space shuttle Columbia. Carl Zelich (AA4MI) of the Kennedy Space Center, Florida, issued the following press release on the antenna:

"The STS-9 antenna to be used by Dr. Garriott, W5LFL, is a copper ring of approximately 9 inch diameter. This is formed from 1/4 inch copper and is a split ring at the ends. One end of the circle is grounded in the typical DDRR configuration and a few inches from this same end the center pin of a type N connector is connected to supply the RF. The "N" connector enters through the rear of the box. The other end of the antenna circle is insulated from ground. This antenna is enclosed in an aluminum box 2 feet square and 4" deep. There are flanges attached to the edges of the box."

"The window of the orbiter has velcro strips that normally provide attachment to the sunvisor. The window is in the ceiling of the orbiter. These same strips will be used to mate with velcro "c" clips that are mounted on the box flanges."

"The antenna will emit vertical polarization as do all DDRR antennas but the important objective is to get the RF out of the vehicle. The position of the orbiter, of course, will determine where vertical is in the respect to the earth."

"To reduce any RF leakage into the orbiter, wide mylar tape strips approximately 1 1/2 foot long are taped in a radial pattern to function as rf chokes. These are attached to the flanges and the panels around the window from the flange."

ROCHESTER HAMFEST

MAY 18, 19, 1984

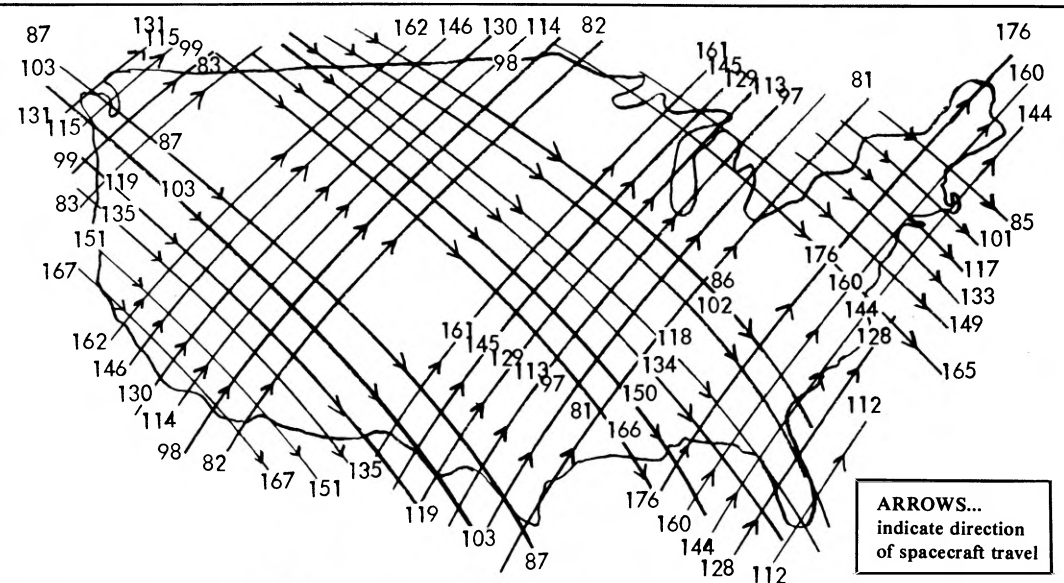
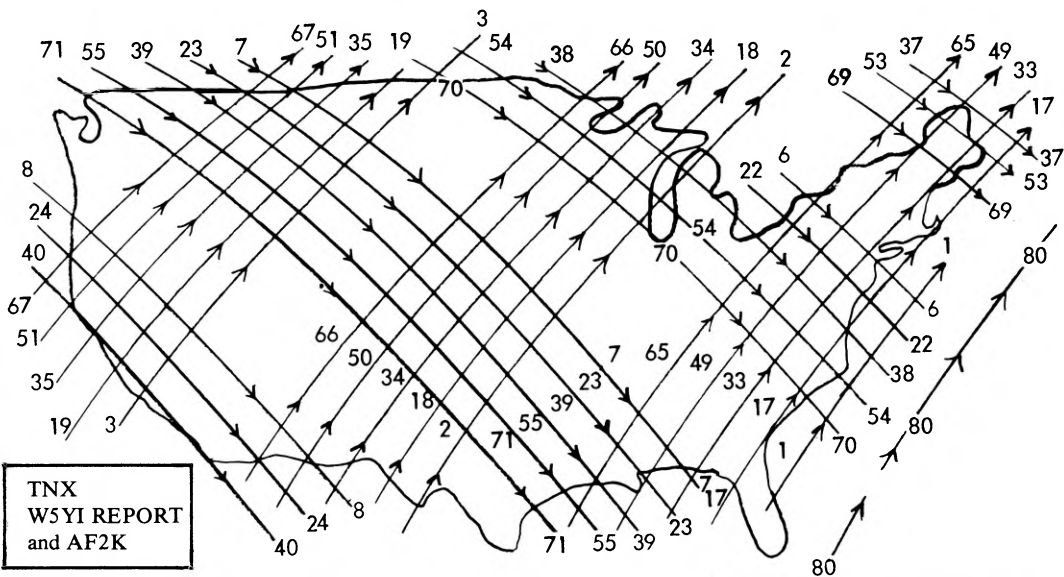
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STS-9 GROUNDTRACK CHART — ORBITS OVER UNITED STATES

These two maps indicate *every orbit* that the STS-9 will be over the United States, the direction of travel and the orbit number. The chart on the left indicates the equatorial crossing time that each orbit begins after lift-off. You must add the appropriate minutes to obtain the time that the Shuttle will be over the United States.

Thanks to Chuck Biggs at JSC we were furnished with a STS-9 Shuttle groundtrack chart which shows each of the 176 orbits. We traced each orbit that crosses the United States and these are shown. Since Owen Garriott will undoubtedly be operating other than the specified orbits, this will *serve as a good reference* as to where the shuttle will cross the United States when it is known what other revolutions he will be on-the-air.

Orbit 80 really *passes substantially east of the United States* but possibly can be reached from stations located Florida to New England. Since

Rev. 80 passes the equator west of South America, you only have to add 7 to 17 minutes to the 4 day 21 hours 36 minutes mission elapsed time.

Stations on the east coast should try to contact Owen Garriott on Wednesday morning, November 2nd *between 8:13 and 8:22 a.m. EST.* (Remember we go from *daylight to standard time* Sunday, October 30th.) It was previously announced that Rev. 80 would be on Thursday, November 3rd, but I believed this to be in error based on the chart received from Johnson SC.

LETTER TO THE EDITOR

June 30 83

Dear Dwight:

In your June 83 issue, "*Editor's Inch*," you mention an attitude of the Upstate editor relative to your publicity. I disagree with her and with you. Here's what I think:

Most handouts are terrible; there is too much ego involved for the writer to get a second opinion from other members before it's sent out. I work part-time at the local newspaper and have examples of the MOST putrid press releases. I even use them in my class at the college to show students what not to do. Like the Upstate editor said, the article was on how wonderful a group is. No one cares, and that's your gimmick: what's in it for the average reader?

Our meeting notices are printed, partially because they are written in a way that might interest non-amateurs. Our events are publicized in the context of their contribution to the community. It helps that there are two hams on the staff, but that's no guarantee; the pieces stand or fall on their own.

Upstate's editor says, "*that is what journalism is all about*," a high-handed classroom statement if I ever heard one. It's great in theory, but does not work in practice. But your shrug at the end isn't much better. It IS what you know, what you know, what you do and who you know. If you wait to be discovered, it will be because someone up there heard you were having your 50th anniversary as an amateur. Get in there and buttonhole people -- all kinds of people. Different editors represent different sections of the paper and you can use them at various times. We have news, arts, life-style, editorial, sports, etc., and we run to them all. Each can be used, depending on what we are doing.

1. Write the handouts well. Show them to a non-amateur to see if they make sense. Choose someone who will be honest with you.
2. Make sure the event is of interest, not just pure publicity.
3. Find the right editor or staffer and sell him/her on what you do.
4. Have your club rep be able to speak clearly and well when in the newspaper office. Be professional, sharp and interesting. Dress right.
5. When turned down by one editor, go to another. They do compete.

TO: ATLANTIC DIVISION AMATEUR RADIO CLUB NEWSLETTERS EDITORS

Many thanks for having me on your mailing lists. Each newsletter is read and my interest in your activities continues. It is a good feeling to know that all of you volunteer so much personal time and effort for the Amateur Radio Service. The current issue is kept and the others are shared with other clubs looking for new "*ideas*". Please pass along my best regards to the club members -- particularly those who have expressed themselves on the two complex issues confronting us -- the no-code license and the volunteer examination program. The solution to matters such as these is never simple.

The date for the next ARRL Board meeting is October 5 and 6. Both the Vice-Director and I invite your inputs.

One of my non-ARRL activities is the scholarship program administered by the 50 clubs in the Baltimore/Washington area. Perhaps you can find space for all or part of the accompanying press release. Together all of us have the responsibility for not only assisting newcomers in obtaining their licenses, but also encouraging them to continue their training.

73 and keep up the good work,
Hugh A. Turnbull, W3ABC
Director Atlantic Division



6. Send the same item to different papers, but written differently (just mix up the order a bit or re-write the first sentence in each paragraph). With photos, avoid "*standing left to right*" shots, and reverse the negative so you can send "*different*" shots to different papers.

If that fails, threaten to hold your breath until you turn blue.

73,
Tom Carten, K1PZU
Editor, MARC Times
1602 King's College
Wilkes-Barre, PA

THIEVES CAN STEAL TIME ON YOUR CORDLESS PHONE

by Teresa Hoffman, Gannett News Service

If you have a cordless telephone, the stranger in the car parked down the street may be placing a long-distance telephone call at your expense.

That's illegal, but victims don't know they've been had until they see the telephone bill.

The devices also allows strangers on similar units to listen to your conversation. That's disconcerting, but not illegal.

The Federal Communications Commission says that it has been receiving complaints about eavesdropping and pirating for the past two years, when the units gained popularity.

The telephones, touted for freeing people from the restraints of cords, use radio airwaves instead of telephone wires to transmit conversations. But the small number of channels in existence means many of the telephones are on the same frequency, allowing some users to eavesdrop.

Now, the only solution is to replace the unit with one of another frequency. And if another person close by has a cordless telephone with that same frequency, the new telephone is no solution.

But the FCC said help is on the way.

"By fall we'll add new frequencies and channels to overcome the problem," said William Von Alven, manager of FCC's telephone equipment registration program. "There will be less chance of interfering."

Ten channels are now used by the FCC, but it takes two channels to make a cordless telephone work. That leaves only five different combinations of frequencies. By fall, however, the FCC will double the number of channels and lessen the chance of interference.

Some complaints involve charging long-distance calls to another number, Von Alven said. Someone with a cordless unit will drive down a street with his unit turned on until he picks up the dial tone of another cordless telephone on the same frequency. He can make calls within the range, and the person who owns the base unit will be charged.



TALK-UP STS-9 !



K2JD ENGRAVING

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CALL SIGN BADGES

Size • Up to	Cost
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1 1/4 x 3 (2 line)	\$2.00
2 x 3 (3 line)	\$2.25
2 x 4 (4 line)	\$2.75

Base station sign

2 x 8 (2 line)	\$3.00
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Plastic base	\$1.50

Clip fastener on badge instead of pin add 25¢

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Most color badges are in stock.

ARRL sig on stamp or badge add 50¢

10 PT

8 PT

NEW IMPROVED ELECTRONIC TECHNOLOGY DEVELOPED . . .

A new type of police radar has been developed by famed Massachusetts Institute of Technology which promises to alleviate some of the inaccuracies of present microwave radar technique! The MIT system uses a pulsed infrared source for its LIDAR, *LIght Detection And Ranging*. (Radar, of course, is *RAdio Detection And Ranging*.) The advantage of the new system is that *light is far less susceptible to RF interference than microwaves!* There have been many case histories of false radar readings caused by a patrol car keying his FM radio or a transmission from a passing CB radio. LIDAR also has a much smaller beam width than radar permitting more reliable targetting and as an added bonus, costs less than present systems!

RRRA NEWS:

TRANSMITTER HUNT !

by Howie Davies, N2CUN

Upon popular demand from the members at the last RRRRA meeting, we will again put together another transmitter hunt. There will be only one prize this time around, however, so grab a co-pilot and a home-brew antenna and come out to Pittsford Town Hall on October 21st at 7:30 p.m.

(Don't forget to fill out your RRRRA application and bring it along too.)

Much fun was had during the last hunt, and more people will be bringing along maps and compass this time! The coffee break after the hunt was also a lot of laughs, so come on out.

After some minor adjustments in early September, the voting receiver system is working near perfectly now. Some control circuitry still needs to be refined and some "haywire" cleaned up according to Technical Director Ron Jakubowski, K2RJ, but all is working well.

Soon after you read this, the Amateur Radio Emergency Alerting System (AREAS or better-known as the Fuzz-Buzz) should be routing calls to the new consolidated dispatchers consoles at the public safety building downtown. As of the eighth of this month, there will no longer any routine dispatching from Radio Center at Cobbs Hill.

The new Fuzz-Buzz system will auto-dial a special number on a telephone line which will ring at one of the dispatcher consoles. Plans are to keep the access number the same but we should have more details by the meeting.

JACKETS

by Ed Holdsworth, N2EH

I will be taking orders for jackets again this fall. If you wish to order one, simply send me a check with your order no later than the December meeting. I will place the order shortly after the December meeting and they should be available in January.

The choices are the same as before - Green with Gold lettering or the reverse, Gold with Green lettering. They are available in Children sizes and Adult Small, Medium, Large and Xtra Large. Prices are as follows:

Pile Lined - \$23.50

Kasha Lined - \$19.50

Unlined - \$15.90

Please state Color, Size, Call Letters and Name. Orders can be mailed to me - Ed Holdsworth, N2EH, 518 Parish Road, Honeoye Falls, New York 14472 or given to me at any meeting.

REPEATER DIRECTORY NOTICE

The next annual edition of this very popular ARRL publication is now being assembled. All repeaters must be re-registered to be included in the 1984/85 edition. Information must be sent to the ARRL to arrive not later than November 1, 1983. ARRL has made this little task easy for you, send a S.A.S.E. to ARRL Headquarters requesting form CD-240.

VHF GROUP NEWS

by Ed Maher, WB2ZJY

The next meeting of the Rochester VHF Group is to be October 14th beginning at 8 p.m. Don't forget it's at our new meeting site, 111 Westfall Road.

Our program will feature Pat Sheedy, WA2DHB, who will introduce us to "2 GHz Micro-wave Networks with Automated Controls". Pat will show some slides, present the topic talk and field questions. Pat works for ARCO, servicing equipment for automatic oil transmission systems. If you have any interest in how your fuel oil and gasoline get from there to here, come to see this program.

Our VHF Group Newsletter is in full swing under the editorship of Bruce Sidari, WA2TMC. Don't forget to send your two dollars, (mail expense for ten issues), to Tom Richmond, WB2IEY, 328 Gibson Street Canandaigua, New York 14424. Tom has re-joined our officers to replace Joan Place, KA2QHF, who recently resigned as Secretary/Treasurer.

You all are welcome to join our eyeball and refreshment session after the Friday meeting. See ya' there!

ARRL BULLETIN NR 80 TO ALL RADIO AMATEURS

The new edition of the ARRL Net Directory is now available. Listing over 1200 public service nets by location and frequency, as well as many computer and maritime service nets, this newly revised booklet is also packed with information on all the basics of traffic handling and net operation. You may obtain a copy by sending a self addressed nine by twelve inch envelope with eighty eight cents U. S. postage to ARRL Net Directory, 225 Main Street, Newington CT 06111 AR

MAGAZINES AVAILABLE: A large lot of both *QST* and *Ham Radio*. All very reasonable. Call Ron Langley, KB2KZ, at 34-5595.

PUBLIC RELATIONS IN ACTION

by Lee Grills, WB2ZHD

At the recent RaRa Board meeting one of the officers expressed the desire to go for a goal of 1000 club members. That's a laudable, but difficult goal. All of the activities of the club are actually aiming for that magic number. The officers and board members are doing their best to make the club work for the members and the community, incidentally having fun practicing their hobby along the way.

Public relations is our way of advertising, letting members, non-members and the entire community at large know what RaRa is about. It is hoped that the activity of the club will attract members who are not presently aware of the large scope of RaRa activities and services.

Anyone with any suggestions or wishing to assist in our Public Relations efforts is requested to drop me a card at 160 Sibley Road, Honeoye Falls, NY 14472 or call, 624-3876.

Activities coming up will be a station set up to contact the next space shuttle on 2 meters. Look for a program on Channel 10 with a tape made by ARRL, featuring the well known science editor on TV, Roy Neal.

We also have a ham who practices his hobby to pass time while on a kidney machine. Our Public Relations might inspire other persons to turn to ham radio to pass the time while undergoing medical or therapy treatments. Ever heard a 2 meter handheld operated from a hospital bed? I have and its great fun.

LOCAL TELECONFERENCE NET CUT SHORT

The September 1st Teleconference Radio Network featuring Senator Barry Goldwater, K7UGA, speaking from Phoenix, Arizona, was cut-short in Rochester and 98 other locations across the country due to the loss of a telephone connection between Minneapolis and Chicago. The teleconference net was heard locally on the 19/79 K2SA repeater and the 145.11 WB2AQQ repeater.

Net manager, Rick Whiting, W0TN, said that the stations that lost audio were the non-interactive locations using the Darome Bridge in Chicago. The 16 interactive repeaters using the Minneapolis bridge were unaffected.

Rick thinks the cause was a fault between the Chicago telephone company central office and the Chicago bridge. The connection could not be re-established, possibly due to someone dialing an unassigned bridge telephone number and rotoring to the link number.

The next Teleconference Net is December 1st with "Rip" Riportella, WA2LQQ, of AMSAT speaking on the Amateur Space Program.

ESTATE SALE – The following equipment is available from the estate of a local silent key. It is in excellent condition with manuals:

Heath SB-200 Linear – \$325

Mosley TA-33 – \$50

Heath HD-15 Phone Patch – \$15
QST, 1939 to present



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