

# PACK RATS'



**PACK RATS**

CLUB CALL: W3CCX

MT. AIRY VHF RADIO CLUB, INC.

# CHEESE BITS



MT. AIRY V.H.F. RADIO CLUB, INC. PHILADELPHIA, PENNSYLVANIA ARNS  
(50.2- 145.2, 221.4, 432.03 & 1296.3 MHz)  
AFFILIATED CLUB: AMERICAN RADIO RELAY LEAGUE  
MEETINGS: THIRD THURSDAY OF EACH MONTH AT 8:00 P.M.  
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SOUTHAMPTON, PENNSYLVANIA

VOLUME XVI

APRIL, 1974

NUMBER 4

## THE PREZ SEZ

The untimely death of K3UJD saddened all of us. Mario was an outstanding asset to our club in many and diverse ways. On the serious side, he was highly competent in VHF and UHF techniques and provided assistance and suggestions to all who sought his advice. On the lighter side, he gave us many, many laughs as he delivered his spiel before each of the raffles he conducted at our club meetings.

On Saturday, March 6, WA3AXV, K3BPP, W3HMU, K3IUU, WA3JUF, K3MXM, W3ZD and W3FQD moved Mario's radio gear to the QTH of W3ZD for identification and sale. The amount of gear moved is additional proof that Mario was truly a Pack Rat.

We will all miss Mario, and we will not forget him. Plans are currently being made to perpetuate his memory by establishing a "Mario Fontana Memorial Award." It has been proposed that this award be presented annually to a member of the Pack Rats who has displayed outstanding technical competence. Complete details regarding this award will be made known at a later date.

The next major event on the club agenda is our annual Ladies Night which will be enjoyed on May 4 at the Buck Hotel. John Tate, K3KTY, and his committee have completed plans for this affair; the details appear elsewhere in this issue. Make your plans now to treat your XYL to a night of dining and dancing at this event.

Dave, WA3JUF, has been named chairman of the June QSO party committee. Please give him your co-operation to make this event a successful one for our club.

A final note: Dick, K3IGX has accepted the post of Picnic Chairman for our August 11, 1974 affair.

Dick, W3FQD

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WE OPERATE ON AN EXCHANGE BASIS WITH OTHER PUBLICATIONS AND ANYTHING THAT IS PRINTED IN CHEESE BITS MAY BE REPRINTED, UNLESS SO STATED, AS LONG AS THE PROPER CREDIT IS GIVEN.

\* \* \* \* \*

DEADLINE FOR ARTICLES IS THE GENERAL MEMBERSHIP MEETING.

SWAP SHOP ITEMS - NO CHARGE

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W2EIF, JOSEPH KILGORE  
#5 SUNNYBROOK COURT  
STRATFORD, N.J. 08084  
609 - 783-9478

TYPIST:

WA3TEM, MARSHA STEIN

OFFICERS: 1973-1974

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K3KMN, GEORGE GAKOUMIS  
W3YXF, JOE RUSHTON  
WA3NGK, HARRY BROWN  
K1SFF/3, TONY SOUZA

DIRECTORS' MEETINGS ARE HELD ON THE SECOND WEDNESDAY OF EACH MONTH AT DESIGNATED LOCATIONS.

MONDAY NIGHT NETS:

145.2	-	7:30 P.M.	W2EIF
50.2	-	8:30 P.M.	W3CL/W3GEW
221.4	-	9:00 P.M.	K3GAS
432.03	-	9:30 P.M.	K3IUU
1296.3	-	10:00 P.M.	K1SFF/3

NET CONTROL

FRIDAY NIGHT NET:


439.250	ATV NET	-	K3ZKO/WA3AXV
	19:00 HRS.		

NET CONTROL

# A 5

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CALENDAR OF COMING EVENTS

Syllabus by Lee, K3MXM

APRIL

7 Third Annual Greater Baltimore Hamfest - Calvert Hall College - Towson, Maryland 8:00 A.M. till 4:00 P.M. Tremendous Flea Market, Manufacturers Displays, Refreshments. Only \$2.00 registration fee. No charge for selling. Four big prizes. Round trip is roughly 225 miles from Phila. area and can easily be done on a tank of gasoline. Two meter fm talk-in.

6-7 Space Net Contest honoring SKYLAB I

Return your logs to Rich K3ACR for club participation.

10 Board of Directors Meeting -QTH - K3MXM -Lee Cohen -8242 Brookside Road Elkins Park, Penna. If lost call ME 5-4942 for directions. A bubbling evening is assured. Directors and interested parties invited.

18 GENERAL CLUB MEETING Southampton Free Library, Southampton, Pa. 8:00 PM  
SPEAKER: WB2MTU, Tony Slapkowski will speak about "The Space Program and the Personalities Behind the Scene." Also a video tape presentation: "Houston, we have a problem." Doc's Silent Auction. THE MARIO RAFFLE. Refreshments will be served.

23 BARCC Board of Directors meet at the Casa Conti, Glenside, Penna. Dinner at 7:00 P.M. Meeting at 8:00 P.M.

5,27,28 Dayton Hamfest. The Grand-daddy of them all. See QST and various fliers.

MAY

1 Amateur License fees go to \$10.00  
C.B. Licenses go to \$25.00 - do they ever pay ????

4 Ladies Nite - Buck Hotel

Every year this affair grows and gets better. This year's will be the best. Watch your mail for tickets and full particulars.

5 Potomas Area Hamfest -Westminster, Maryland - for further information write to K3LNZ

8 Board of Directors Meeting -QTH -Tony Sousa -W3HMU

16 General Club Meeting - ARRL NITE - Special Speaker from Headquarters. More details next issue. Nominations for next years officers. Come out for a big double header meeting.

17-18 Western New York Hamfest (Rochester) This is one of the big ones in the East. For more information write to WNY Hamfest -Box 1388, Rochester, N.Y. 14603

19 SUNDAY -Delaware Valley Amateur Radio Club Hamfest 2nd Auction -Ewing VFW Post -Green Lane -off Route #31 -Starting 10:00 A.M. Table and tailgate selling and auction in afternoon. Refreshments available.

This hamfest is in the greater Trenton Area and should offer no problems in the gasoline department. It is a nearby hamfest and should offer a lot of fun and enjoyment. Mark this date on your calendar.

## COMING EVENTS

### JUNE

8-9 VHF QSO Party -Hilltown, Penna. Apologies are in order for our naming the wrong person as chairman. The official club Chairman is Dave Mascaro -WA3JUF.

This year the club will be mounting an all out effort to W-I-N-. Many new avenues are being explored and new efforts are being made. More details next month.

21-23 ARRL -Field Day. Full details in QST

### AUGUST

11 Club Picnic -Flourtown, Penna.

PACKRAT HAMARAMA - OCTOBER 6

### NEW PRODUCTS OF INTEREST TO HAMS

By Lyn; W3NSI

1. Cobra #200 -220 Mc FM Trans./Rec., Dynasean Corp. has introduced an FM rig, which appears to be a copy of the Midland model 13-509. A choice of either 1 or 10 watts output are available from the transmitter, on any of the 12 channels provided. Unit is supplied with 223.5 simplex. Cost \$250. 1801 West Belle Plaine Ave. Chicago, Ill. 60613 (on display at Trevoe Electronics)
2. Midland #13-505 2M FM Trans/Rec., Two channel selectors give simultaneous or selective choice of 12 crystal controlled receive and transmit frequencies. A front panel switch provides either 5 or 30 watts of output. Dual meters are used, the first a zero center discriminator meter and the second as an S meter on receive and RF and SWR meter on transmit. Crystals are provided for 3 receive and 2 transmit channels. Price \$300. P.O. Box 19032 Kansas City, Mo. 64141
3. Regency Electronics HRT-2, Regency has adapted the marine hand held trans/rec unit to sell to hams on 2 meters. Output is 2.2 watts and 5 channels are used. There is also a hi/lo power switch on this unit which drops the output to 1 watt. Built in whip antenna. A very handy 2nd or 3rd rig. Price \$180. 7707 Records St. Indianapolis, Ind. 46226

### AN EMERGENCY PREPAREDNESS TEST ANNOUNCEMENT

by Woody; W3PST

The Phila. Fire Dept. and its Office of Emergency Preparedness (formerly Phila. Civil Defense Council) in conjunction with the Phila. County Medical Society is sponsoring Emergency Preparedness week beginning on 29 April and climaxing with a simulated aircraft disaster at Phila. International Airport on 4 May 1974. The Radio Amateur Civil Emergency Service (RACES) has been requested to support the Saturday exercise. Several hospitals in Delaware County are involved as well as the nearby Phila. hospitals. Those interested in helping should contact W3PST. 2-M FM has been suggested for this limited operation.

### APPLICATION FOR MEMBERSHIP-

A.G. Wentzel, Jr. (BB), W2HX  
318 Gardner Avenue  
Trenton, N.J. 08618 609-393-4823

6 METER REPORT BY RICH PATTISON, K3ACR

The band is going through its usual quiet period as the winter ends and the hope of spring and its usual sporadic E season in sight. Of course if anyone feels like getting involved on 50.4 most evenings in Phila., you will find a great deal of activity that covers quite a large gamit of information on a great many subjects.

There has also been some activity on the band in the way of CW lately with those working scatter and also upgrading of licenses. The wind has been giving some problems to the VHF bands producing noise levels that seem to be coming from intermittent power lines, as well as creating some atmospheric noise that was commented on by several operators. Remember to get on for the Space Net Contest April 6-7 honoring SKYLAB I. All those who send in logs will receive prizes, and besides you will be helping keep the band alive.

SILVER ANNIVERSARY  
25TH ANNUAL ARMED FORCES DAY COMMUNICATIONS TESTS

Armed Forces Day, observed annually on the third Saturday in May, takes on special significance this year. Saturday, May 18, 1974, will mark the occasion's twenty-fifth anniversary. Military radio stations and amateur radio stations conducting their usual communication tests will be celebrating a quarter century of cooperation and mutual high regard between the U.S. amateur radio community and the U.S. Army, Navy and Air Force. As in the past, the Silver Anniversary military-to-amateur tests will include crossband operations using continuous wave (CW), voice (SSB) and radioteletype-writer (RTTY) operational modes as well as CW and RTTY receiving tests. QSL cards commemorating the 25th Anniversary Armed Forces Day Tests will be forwarded to amateurs establishing two-way contact with participating military stations confirming crossband communications. Certificates will be awarded to those who display their operating ability and technical skill by receiving and acceptably copying a message from the Secretary of Defense. His message will be transmitted in both the CW and RTTY modes during the receiving part of the tests. Interception by shortwave listeners (SWL) does not qualify for a QSL card. However, anyone with the necessary equipment and ability may copy the Secretary of Defense messages and become eligible for a certificate. Additionally, in special observance of this twenty-fifth annual event, a separate 25th anniversary certificate will be awarded to any participants who can show proof that they have taken part in all 25 of the annual tests. This years Armed Forces Day slogan is "American Forces - Vigilant, Vital, VOLUNTEER" -- a description that characterizes, equally well, the role of the American Radio Amateur in the past twenty-five years of an exemplary and mutually beneficial partnership with his military counterparts.

VISITORS AT THE MARCH 21, 1974 MEETING

- W2HX, BB Wentzel, Trenton, New Jersey
- Frank McEntee (ex W3BVD), Phila., Penna.
- K2SMZ, John J. Yost, Oaklyn, New Jersey
- W3CIL, Pete Cummings, Phila., Penna.
- K3ATL, Frank Hormann, West Chester, Penna.
- WA3RCN, Lew Chern, Dresher, Penna.
- WA3BKP, David E. Smith, New Hope, Penna.
- WA3IWT, Richard Prim, Feasterville, Penna.

The first organizational meeting of the Bicentennial Amateur Radio Convention Committee (BARCC) was held at the Casa Conti, Glenside, Pa. on March 19, 1974. The following list constitutes the Board of Directors. A special representative for the Philadelphia Area Repeater Association is Jack Wagenseller, W3GS

BARCC BOARD OF DIRECTORS

CHAIRMAN	W3ZD
Vice-Chairman	W3CL
Corr. Sect'y	K3ACR
Rec. Sect'y	WA3UNI
Treasurer	K3GAS
Directors	W3GTC - YL
	W3FBF - SW Suburban
	WA3RYQ - N Suburban
	W3PST - Philadelphia
	W3ZRQ - Pennsylvania Hinterlands
	K2QIJ - North Jersey
	WB2EIZ - Central Jersey
	W2KF - South Jersey
	W3HRW - Chestnut Hill
	W3UAX - North East
	W3IMU - QCWA

A meeting is scheduled for the board of directors at the Casa Conti on 23 April 1974. A complete report and minutes will be submitted when available from the secretary.

VHF REPORT  
By Jo -W2EIF

The VHF/UHF bands continue to show little activity. The six meter band has some little action on weekends with W3QKV and W3VXJ contacting some of the long haul stations. Chuck WALKER in E Mass was active during the Itchycoo Park VHF Contest, which incidently did not produce much activity. The low end of 2 meters has had some activity with W2KFC/4 and W4YEB in Virginia putting in nice signals. There have been no auroras of any consequence to date. Rich, K2EVW is attempting schedules with K4EJQ in Tennessee and is hearing bits and pieces from him.

It is expected that activity, particularly on 6 meters will pick up coincidental with the band openings which should begin about the 2nd week of May. Activity is when you get on the air. So many times I have heard an operator say "I haven't been on for six months - where has everybody gone?" If you want an active band get on and make it active.

PHILADELPHIA WIRELESS TECHNICAL INSTITUTE  
ANTIQUÉ RADIO DISPLAY SCHEDULE

By Al, W3AYJ

April 1 - 12	Beneficial Savings Bank, 5700 N. Broad Street (Broad & Chew)
April 22-May 3	Fidelity Bank, #4 Penn Center, 16th & JFK Blvd.
May 6 - 24	Beneficial Savings Bank, Village Center, Bethlehem Pike & Sunneytown Rd., Springhouse, Penna.
May 27-June 7	Beneficial Savings Bank, Lawrence Park Shopping Center, Lawrence & Sproul Rds., Broomal
June 10 - 21	Fidelity Bank, Independence Branch, Rohm & Haas Bldg., 6th & Market Sts.

SILENCE .... from IVYLAND

By- Dave Zimmerman, W3ZD

In the early morning hours of March 4, 1974, the "Packrats" suffered a severe and saddening loss in the passing of one of our best liked and most important members, MARIO W. FONTANA, K3UJD.

The death of Mario was a sad blow to all his family and friends following a two week period in intensive care at Abington Hospital after a heart illness, more severe than anyone realized. He alone may have known for he did not want to be left alone. He told me each time I visited that he was very sick, but the last visit found him responding very little to medication and from there on it was all down hill.

It is a long way from that chance meeting with Mario on the sidewalks of the Phila. Naval Base twenty seven odd years ago to the laying of the flower on his casket at the Holy Cross Cemetary in Yeadon, Pa. So many things stand out in that association that to recall them in a few words is hopeless. I don't know where to begin. Also, tears fill my eyes when I think of him on a personal level so let me try to outline his impact on the club.

Mario was a newcomer to Ham radio, just over ten years, but his rise was spectacular. He went from a ham tech to video and single sideband on 432 with home built cameras and RF gear in less than a year. He seemed to engulf the hobby. He built more gear and got into more different aspects of the game at the same time than anybody I knew. He was very innovative and extremely clever and probably a whole lot smarter than most of us yet he put nobody down. He disliked to assume any position of leadership, yet he was a leader who was in there doing. He built gear that at times seemed to have a true ham flavor, lacking professional polish here and there, but when he saw the need for a first class job, few could touch him. He was thinking all the time, and this attention to thought and logic saved many a job both in work and hobby areas. The club 432 convertor is a masterful copy job, re-engineered by Mario and pushed to the last nut and bolt. These units, when they come up for sale, will always be popular.

Two areas of sterling activity for the club stand out. The June contest and his monthly raffle. How can we possibly think of the UHF tent without Mario and those pink shorts? What two or three men will come forth and take over the patter and ticket sales for the raffle? Yet, how do we measure loss? Next to impossible. His technical and personable contributions to everything he came in contact with are endless.

All we can say is that Mario will be sadly missed by his family, his business associates, club members and his friends. Here passed a man, the likes of which the whole world could use many more of.

Born: July 23, 1921

Died: March 4, 1974

Age : 52

SPACE NET NEWS

Next big event will mark the 5th Anniversary of Apollo #11 on July 20 and 21st, 1974. This contest of Apollo #11 will have "special bonus" points. Announcement and rules will be printed in the next issue of Cheese-bits.

TID-BITS

Did you send your list of instruction manuals to Elliott -K3JJZ -8533 Algon St. Phila., Penna. 19152. He is busy compiling the index and we sure want to include yours.



STORE HOURS: Tue. & Thur. 9:30-6:30, Wed. & Fri. 11:30-9:00, Sat. 9:30-5:00  
CLOSED MONDAY

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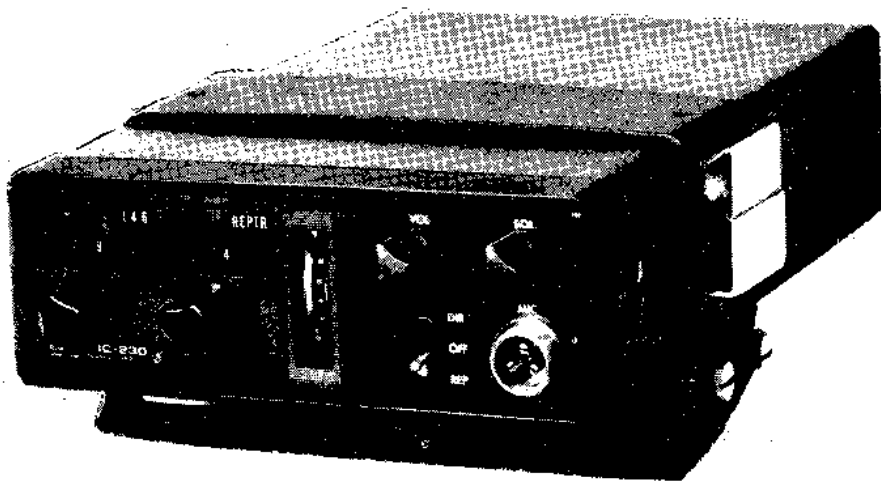
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 <p><b>PHIL THEIS</b> Clegg Div. General Manager K3TUF</p> <p><b>ISC</b> 3060 Hempden Road Langhorne, Pennsylvania 17601</p> <p>TEL: (717) 299-3671 TELEX: 84-8439 CABLE: INTERSIG</p>	<p>1616 FAY ROAD</p> <p><b>HARRY B. STEIN ASSOCIATES</b> COMMUNICATIONS CONSULTANTS</p> <p>HARRY B. STEIN</p> <p>2007 PARKDALE AVE. GLENSIDE, PA. 19038</p>
<p><u>A request from your AD Manager</u></p> <p><b>PATRONIZE OUR ADVERTISERS</b> Tell them you saw their ad in <b>CHEESEBITS</b>. Leave your QSL card with them. <b>CHEESEBITS</b> is one of the best read local radio club papers. Circulation - 300</p>	 <p><b>73 magazine</b> for radio amateurs</p> <p>PETERBOROUGH, NEW HAMPSHIRE 03458</p>

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### SWAP SHOP

FOR SALE: Like new, Swan 250C with power supply and Turner push-to-talk mike. Complete station \$450.00. Will ship.  
Contact: Tom Mathews (W3WIJ) Phone - (813) 581-6437  
108 Pindo Palm West  
Largo, Florida

FOR SALE OR SWAP:

Collins 100 watt XTAL controlled AM-Transmitter - 108 to 156 MHz.  
\$95.00 - manual included.

Collins 648 receiver - Digital Readout 100 KHz to 20 MHz - \$55.00

Gertch Frequency Meter - 20 to 620 MHz.-Requires a Power Supply  
\$55.00

General Radio - Antenna Impedance Bridge - requires a detector and  
a source \$25.00

Contact: Steve Karpati, WA3KNN Phone - (215) 886-0399  
2136 Parkdale Avenue  
Glenside, Penna.

FOR SALE: National NC 183D receiver  
Hallicrafter HT40 Transmitter  
Vibroplex Key - Good condition, reasonable

Contact: Bob Marino, WA3CRX Phone (215) 968-4448  
72 Wood Drive  
Holland, Penna.

cont'd

SWAP SHOP (cont'd)

From the estate of K3UJD, Mario Fontana. All items priced for quick sale.

- 2000 Volt 1 AMP. Power Supply with Variac
- 40 ft. Rohn 6 steel towers - 2 each
- Collins mechanical filters - 500 KHz, 6 KHz, and 1.4 KHz bandwidth. 4-each bandwidth available
- 180 watt modulator
- 50 watt 6 meter xmitter complete
- dual blower assembly 110 volt A.C. rack mounted
- surplus 3 inch oscilloscope
- ARR-15 HF receiver
- 1500 volt, 300 MA. power supply
- ARC-5 receivers - 6-9 MHz, 190 to 550 KHz. 1 each
- Western Electric desk facimile machine
- 2 meter J-slot beam antenna
- Assorted panel meters

Contact: Dave Zimmerman, W3ZD Phone 215-OS5-4539

FOR SALE:- Complete 220 station - R48 and Barry Rig \$50.00

- Complete 2M station - 25W HB + HB VFO + Ameco conv & NC125 \$125.00
- Clegg Interceptor B \$250.00
- Clegg Zeus \$200.00
- Clegg Appollo \$100.00
- Clegg Venus \$250.00

Contact:

K3ACR - Rich Pattison Phone 215-885-3830  
717 Paxson Ave.  
Wyncote, Penna. 19095

WANTED:

Anyone interested in information on the question "Who is Guru Maharaj Ji" and the World Peace Movement, contact K3ACR-Rich Pattison

TID-BITS

Do you know there are now two bi-weekly newsletters especially for hams with all the latest news, forecast etc.

HAM RADIO Magazine has the HRREPORT  
73 Magazine has the HOTLINE

Both of these magazines, which are our advertisers, have done a good job, and having seen advance copies can heartily recommend them to you. Rates, etc. are available in the respective magazines.

\*\*The FCC now has a hot line for news. A two minute recorded message can be heard by dialing 202-632-0002. Remember this is a Washington DC area and is a long distance call - so a suggestion-nets or the club meeting.....

Daily astronomers sky reports from the Franklin Institute - Dial LO3-1363  
gardening and lawn questions will be answered by Scotts toll free number  
800-543-1415

Which well-known ham was in a pleasant Mobile QSO one evening when he had to apply his brakes suddenly? The unit slid off the seat and in the mad scramble to plug everything back in place in the dark, asked his color-blind passenger to connect the red leads. Talk about an explosion in a spaghetti factory!

Our condolences to John Allen and his family on the passing of his mother on March 4, 1974.

cont'd

FROM MARCH ARRL DIRECTOR'S LETTERS

Richard E. Wiley has been named to become Chairman of the Federal Communications Commission when incumbent Dean Burch leaves. Commissioner Wiley has demonstrated keen insight in problems of the Amateur Radio Service, particularly in "re"-regulation of repeaters.

The ARRL has petitioned the Commission to delete the restriction against linking of repeaters. This is based on continuing recommendations of the VHF Repeater Advisory Board.

Canada and Mexico have filed protests against the FCC proposal to put CB in 224-225 MHz. They are concerned about border problems.

Hearty congrats to Canadian ARRL counsel Art Meen, VE3RX, named Minister of Revenue in the Ontario Cabinet!

We have received a comprehensive report on ARPSOC activities in the Philadelphia area from Paul, WA3HIT, EC for Phila. county.

Paul left for Little Rock, Arkansas on March 18th to attend IRS school for a period of 6 months. He has appointed Tom, WA3SBZ to run the ARPSOC Net on 50.7 MHz Thursday evenings at 2030 hours. Joe, WA3OTI is back-up NCS. Best Wishes Paul - will look for you upon your return about September 1st.

The March 23, 1974 Dinner-Meeting of the Delaware Valley chapter of the QCWA was a gala affair with 114 members and guests present at the Buck Hotel in Feasterville. The group was addressed by W3SW, Director of the Atlantic Div., W2IHA, V. Director of the Hudson Div., W3WRE, Editor of the YL Column, QST, W3ZRQ, SCM of Eastern Pa., and W3CL, V. Chairman of the BARCC. The featured speaker was Harry Dannals, W2TUK, President of the ARRL who gave a dynamic talk on the international aspects of amateur radio and the responsibilities of American Hams in this respect.

QUOTING from a letter received by Jo, W2EIF from Edgar Reihl, WA9ULU, President of W9BGX, Northwestern University, ARC, Evanston, Ill.

February 7, 1974

"This is just a brief note to thank you for the recognition you have given our club over the past several years by including us on the Pack Rats VHF DX List. I have greatly enjoyed operating the VHF contests over the past years while I have been a student in EE at Northwestern and member of W9BGX. I strongly believe that these contests are one of the few ways to help save what little activity is left on VHF that is not on FM."-----

"One fact I wish the ARRL would wake up to is that conditions on VHF are not the same out here as they are in Hartford. Six meters is almost a deserted band in this area due to channel 2 TVI. The few stations that do operate, like WA9FEF, WA9UBI, and K9HMB don't care how many TVs they wipe out when they operate, since they feel their rigs are clean. The same is true on 2 meters with regard to audio rectification. The FM boys in the area are talking about taking over 145 MHz, and eventually even down to 144.1. I think a concerted effort is needed to get activity going again. Taking novices off of 2 meters was the beginning of the end, and was a thoughtless and stupid move. I could hardly believe it when the ARRL pressured FCC to give Technicians 145-148, but not the low end of 2 or 6. In our area, the techs are about the only people who still inhabit the band, and they are denied the right to work DX down at the low end."-----

"Anyway, I'd like to personally thank you for your efforts to build contest activity and thereby help to maintain activity on the VHF bands and serious experimentation with radio equipment at these frequencies. I hope that activity is still going strong in Packrat Country....."

Edgar Reihl, E.E. Department 2145 Sheridan Rd. Evanston, Ill. 60201

## "CHARIOTS of the GODS"

By Eric VonDonekin

It is estimated that in our Milky Way alone there are 30 billion stars, but if we reduce the number to those that can be observed with a reasonably good telescope it leaves 180 million planets capable of supporting life. If we further assume that one planet in a hundred that might support life actually does, we have a figure of 1.8 million. Let us further assume that out of every hundred there might be one with creatures of the intelligence level of homo sapiens- and we still have 1800. And yet, if we suppose that of these only 1% is actually inhabited there would be 180. It is supreme egotism to assume we are the only intelligent creatures in the Universe.

If this seems radical, remember that for thousands of years, man believed that the flat earth was the center of the Universe, and that the sun rotated around it. Many things we now consider commonplace- jet airplanes, color TV, the flight of Man to the moon have come about during our brief lifespan. In the lives of our children's children there could be interstellar travel at very nearly the speed of light.

Imagine the crew of such a spaceship on an exploring mission- would they not aim for a planet with conditions as close as possible to ours? And wouldn't they have instruments to tell them, before landing, what the atmosphere contained and where they could find the materials and fuel for return?

Our future spaceship finds such a place and lands and the beings there are primitive hunters. Wouldn't they tremble at the lights and the sounds! It is beyond their understanding. What would happen then? Our spacemen would process the fuels for the return flight, but would need help. Some of the more intelligent would be trained to help them, the most intelligent would be made kings or leaders and be given radios as symbol of leadership and to communicate with the "Gods." The rest would hide in fear. Probably the astronauts would co-habit with the prettiest and brightest females and leave offspring far beyond the natives- thereby skipping a stage in evolution. They would leave signs and laws to be understood much, much later.

When our spaceship blasts off again, it will be remembered that when the Gods were here miracles happened, men flew and mountains shook at their departure. Pictures and statues would commemorate the wonders and gifts would be sacrificed so that they would return. The story is retold for generations and their landing sites would become holy places, and time passes. We need to open our minds and look at concrete evidence in new ways. There are so many things that defy explanation.

At the beginning of the 18th Century, a Turkish admiral left a map that was remarkably detailed but the proportion was wildly distorted- recently it was compared with a satellite photograph taken over Cairo- and it was exact! Mountains, rivers, details that were not discovered until 1952! Enormous ancient drawings exist in the Andes that can only be comprehended from the air. On the Plain of Nazca is a series of immense geometric lines, looking from above like an airfield- too high up to serve any purpose, put there in Pre-Inca time by people who did not know the wheel. In Mexico there is a stone on which is a calendar recording 27,000 years with astronomical calculations, seasons, equinoxes and phases of the moon.

In Tiahuanaco, where the air is so thin it is torture just to breathe, there are 100 ton blocks of stone, beautifully dressed and fitted together. Stone conduits 6 ft. long and 1 1/2 ft. wide are made with such precision that modern concrete conduits are coarse by comparison. There is a Gate of the Sun with inscriptions that tell the legend of a great, golden spaceship that came from the stars. There is no logical explanation for this brief culture- no beginning, no end except that it appeared suddenly and is very old. There are vitrified craters in several places. They are not volcanic but required immense heat- and resemble most closely those created in Nevada by atomic

testing. All over the world are unexplained mysteries-cloths thousands of years old so fine they would require special techniques today, galvanic batteries in ancient Baghdad, a perfectly beautiful jade necklace found in a Mexican tomb thousands of years old-a type of jade found only in China. All over the world are drawings, thought at one time to be "monsters", now understandable as men in spacesuits, airpacks, antennas and all!

The Bible, the Gilgamesh and other chronicles of time are full of contradictions and cryptic stories of giants and sons of Gods-even Noah's father thought the child was not his but born to a "Son of God." Think of Sodom and Gemorah in which Lot's family was hurried to the mountains. Could it have been an atomic blast that rained fire and brimstone and death? This may sound heretic, but would the great God who created all need wheels and chariots and other paraphernalia-the God who created the vastness of the universe and the perfection of a flower?

The day is not long off when we shall land on another planet and if there is one scrap to indicate intelligent beings lived there, it will shake most established beliefs to the foundations. Man must realize that there are not many Gods, many faiths-but only One.

Florence N. Power, WA2WYE

### ONE LITTLE VOICE

A pro-American editorial - read on a Canadian rock and roll radio station recently - has snowballed into a national event, taking station officials by surprise and raising thousands of dollars for the American Red Cross.

Radio Station CKLW in Windsor, Ontario, recently broadcast an editorial written by Toronto journalist Gordon Sinclair. The editorial began with these words: "It's time to speak up for the Americans - the most generous and possibly the least appreciated people on all the earth." The words triggered a listener reaction which may be unmatched in the history of radio. Thousands of people phoned or wrote the station that day requesting copies, and they continue to do so every day since it was aired.

Senator Barry Goldwater has phoned in his congratulations and Secretary of State Kissinger's office has requested copies of the editorial for distribution to every embassy overseas.

One typical section of the editorial reads, "I can name you 5,000 times when the Americans raced to the help of other people in trouble. Can you name me even one time when someone else raced to the Americans in trouble?" The editorial goes into a lavish, patriotic praise of American technology and foreign aid programs.

CKLW news director Byron McGregor, who recorded the editorial over America the Beautiful, said, "I've never seen anything like this before. It's taken us completely by surprise."

The editorial has now been released as a three-minute, 48-second record called "Americans" by a Detroit record company. Over 600,000 copies have been distributed nationally, and the record is skyrocketing on the charts. All royalties from the sales are going to the American Red Cross.

### SOLUTIONS TO PROBLEMS

Sure, there are problems in our country. But for every problem, there is a solution. There must be a solution to the high cost of food and the oil shortage and higher taxes and unemployment and disease and so on. Many, however, sit back and think, "I've made it. Why should I worry? Let somebody else fool with the problems." Fortunately, more people are aware of the problems and they prove their concern by trying to solve them. However, most of us can't be Washingtons, Fords, Edisons, Rockefellers. What then can we do to help? We can tend to our families, our homes, our jobs, our studies, our obligations. We can try to be better today than we

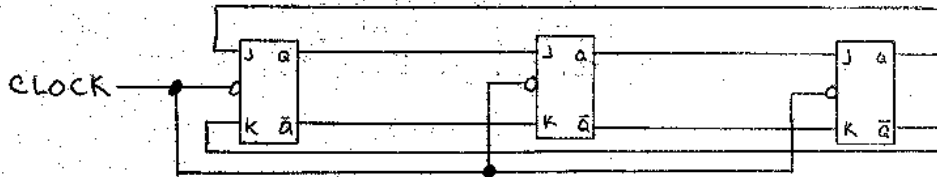
SOLUTIONS TO PROBLEMS cont'd

were yesterday. We can have faith in our churches, in our schools, in our country. We can be optimistic! And with that optimism, we can take on the task of finding solutions to problems by doing our fair share as true American citizens, as good mothers and fathers, as loyal employees, as students of life.

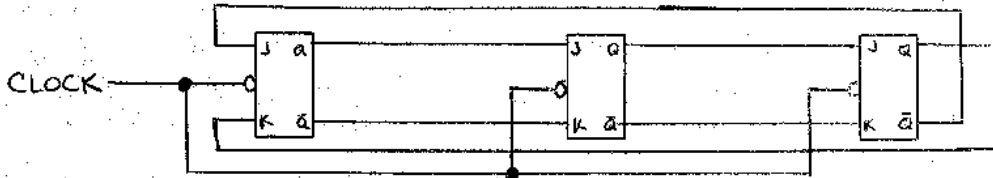
I REALLY DO LIKE MY MOTHER-IN-LAW

By Frank McEntee W3BVD maybe?

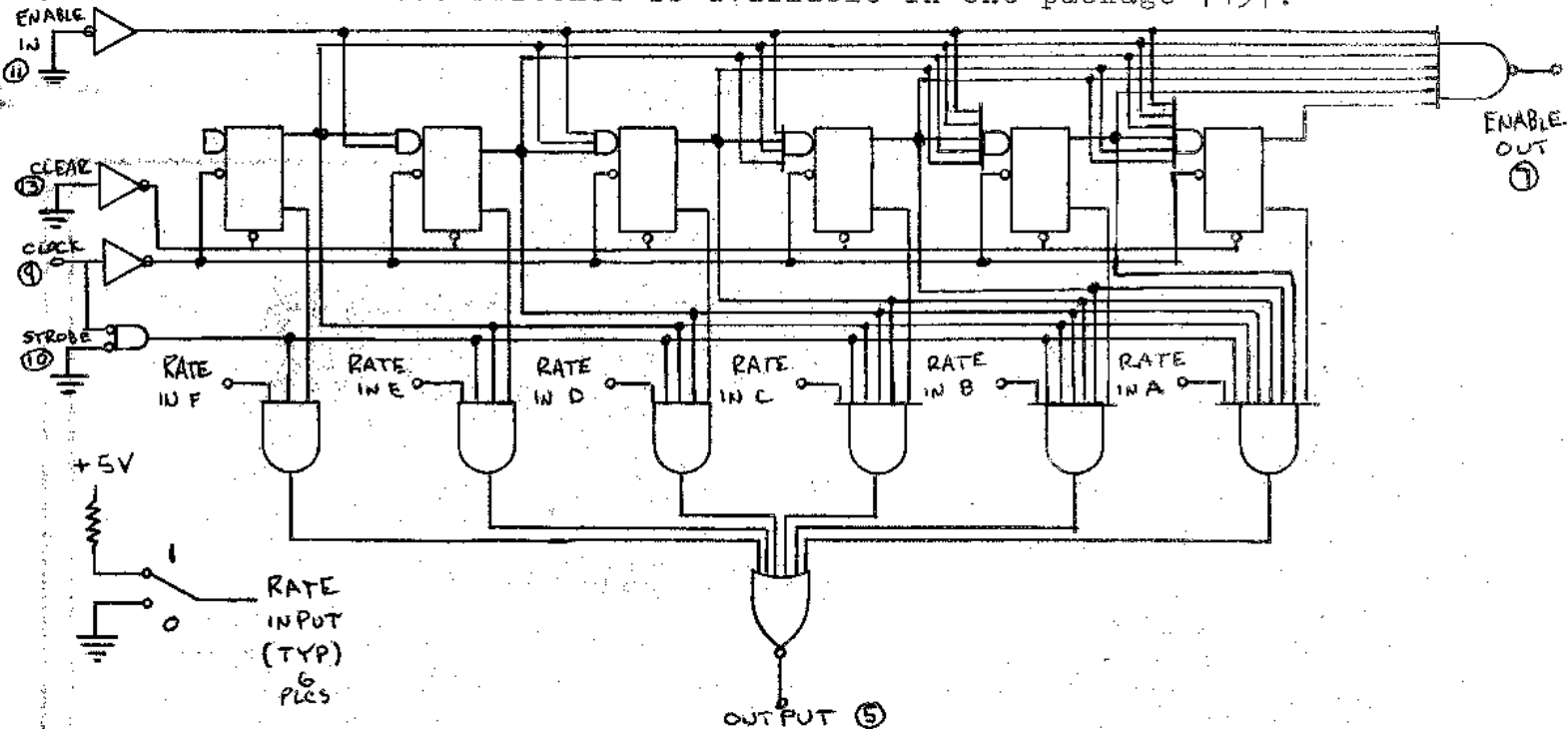
First off I would like to correct a mistake I made during the discussion on ring counters. I showed the circuit as follows:



This is a ring shift register-what I should have shown was:



If you like to play with counters and don't want to be stuck with a fixed count try this one on for size. A counter whose module number is determined by switches A thru F. "Module number" is the same as "divide by". The circuit is called a rate multiplier with the multiplier being a number less than one, i.e. .5. This circuit less switches is available in one package 7497.



To determine the switch setting use the following formula  $M = \text{switch setting}$

$$M = 64 \times \frac{f_{out}}{f_{in}}$$

For example, if you want to divide by 3/4 then  $\frac{f_{out}}{f_{in}} = 3/4$

$$M = 64 \times 3/4 = 48$$

$$M = F \cdot 2^5 + E \cdot 2^4 + D \cdot 2^3 + C \cdot 2^2 + B \cdot 2^1 + A \cdot 2^0$$

$$M = 1 + 1 + 0 + 0 + 0 + 0$$

$$\text{Therefore } F=1 \quad E=1 \quad D=0 \quad C=0 \quad B=0 \quad A=0$$

NOTE:  $64 \times \frac{f_{out}}{f_{in}}$  must be a whole number it cannot be for example 3.5

The ARRL Emergency Communications Advisory Committee is continuing its study of RACES which was initiated by FCC docket 19723. Subpart F of the rules and regulations is being carefully studied. Committee members welcome comments from as many interested parties as possible. Correspondence can be directed to Committee Chairman WA4PBG, committee members W3PST, W4IYT, K5SVD, W6INI, W7IEU, W8ERD, W9QBH, W0PB, VE3DV, or to ARRL Headquarters for routing to committee members.

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## AMATEUR TELEVISION TODAY

by K3ZKO

In the past two years amateur television has grown at a fantastic rate due mostly to the ease with which it is to get on the air with fast scan TV. Many amateurs relate to me how high the cost is to get on ATV, my question to them is, what did you pay for that HF SSB rig that you have? Their answer is, oh that was only \$780.00. For that cost they could set up two or three ATV stations with a camera in each. What I am trying to point out is that ATV is not expensive but it does take some technical know how. The ATV rig cannot be store bought like the two-meter FM equipment. There are many ATVers on the air that would be more than willing to give help in getting you on the air.

The equipment is available in the surplus stores and at the hamfests at very low prices. DO NOT start looking for a camera right off. Get the RF on first unless you run into a good deal for a camera. So many potential ATVers fall by the way side because they bought the camera first and had so much fun using it closed circuit that they never did get the transmitter and receiver on the air. Most ATVers are using the Motorola T44 transceivers for transmitting and receiving ATV. Cost of this rig is about \$30.00. The camera will run in price from \$50.00 to what ever price you want. I always see TV cameras at the many hamfests from the above price up to about \$200.00. The antennas for ATV cost about \$25.00 if you buy them. Much less if you build them.

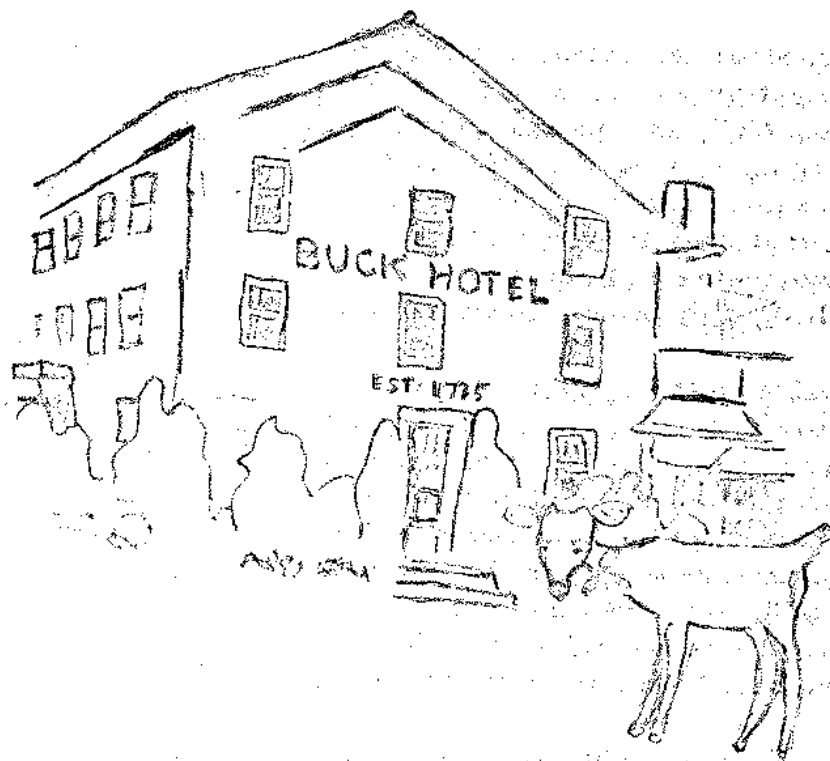
In the Philadelphia area Friday nights have been set aside for the ATV NET with K3ZKO and WA3AXV as net control. By setting up a know night for the ATV activity new stations know just when there will be action on the ATV frequency of 439.250 MHz.

There is now the first licensed ATV repeater in operation in the Washington, D. C. area. Others will be going into operation soon all over the U. S. ATV has been used from an aircraft flying over Philadelphia. Ship to shore in New York City Mobile to mobile in North Jersey. There are many uses for ATV in public service work also.

For the ATVer there is A5 Magazine which tells how to get started in ATV with many articles each issue on up-date circuits for your shack. Listings of the ATVers around the country with whom you would be able to contact for help in getting your equipment on the air. The children love ATV too. Show your home movies or slides. you will have a captured audience just waiting. Do it today, get on AMATEUR TELEVISION.



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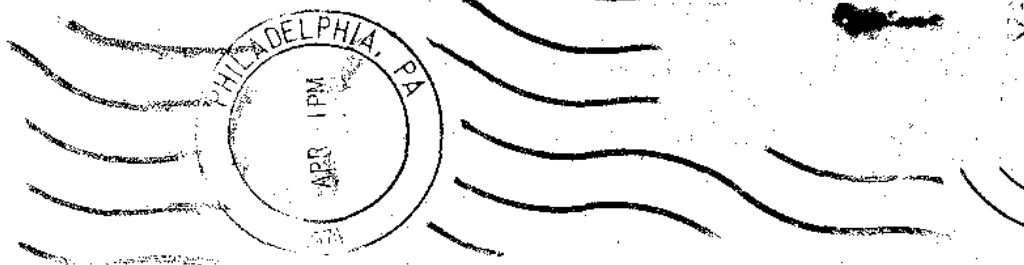
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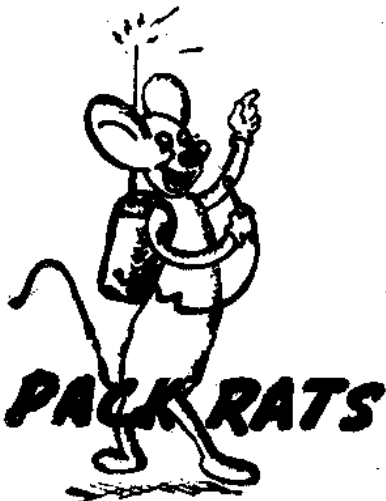
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