

PACK RATS CHEESE BITS

VOLUME V

MT. AIRY V.H.F. RADIO CLUB, INC., PHILA., PA.
(50.2, 144.2 and 221.4 MC)

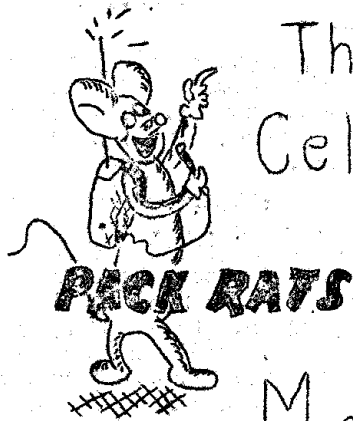
NUMBER 2



W3CCX
MAY 1962

MEMBER
A.R.E.A.

(Meeting notices, last page) AMATEUR RADIO EDITORS ASSOCIATION



The League Joins Us In
Celebrating Our Sixth
Birthday!!

May 16, 1962

Speaker: Ed Tilton, W1HDA

V.H.F. Editor, "QST"

Assistant Director, Atlantic Division; SCM,
E. Pa.; Allen Breiner, W3ZRQ

Section Emergency Co-ordinator, E. Pa.;
Emmett Koehner, W3DUI

8:00 P.M.

West Oak Lane Jewish Community Center,
Sedgwick and Thouron Streets, Mt. Airy,
Philadelphia, Penna.

All Welcome!!

"CHEESE BITS" PUBLISHED MONTHLY BY
MT. AIRY V.H.F. RADIO CLUB, INC.,
PHILA., PENNA.

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W3AYG, John Harris
K3LBT, Alfred Obenland

MEETINGS: DIRECTORS: Second Wednes-
day, each month. 8:00 P.M.
GENERAL: Third Wednesday
each month, West Oak Lane
Jewish Community Center,
Sedgwick & thouron Streets,
Mt. Airy, Phila., Pa.
8:00 P.M.

NETS: 144.2, Monday, 8:00 P.M.
50.2, Monday, 9:00 P.M.
221.4, Monday, 10:00 P.M.
NITWIT: Monday, 10:15 P.M.
(50.2)

NET CONTROL: 144.2, W3SAD, Alt; W3AYG
50.2, W3CL
221.4, W3KKN
NITWIT, W3SAD

EDITOR'S CORNER

It seems that quite a number of you boys have broken your wrist. Out of all the calls mentioned last month, only three filled out the cards and returned them to me. One of you even said on the air that you were one who did not send it in and I am still waiting for it.

It now seems that our reporters have broken a wrist. Except for W3NSI, "Tweaker Rat" and W3ZRR, I have received nothing from "Smel A. Rhat", nothing on six meters, nothing on 220 meters and nothing on club history. That is two months no report on club history. (I may add, or correct the club history reports, but I do not write them.) Oh, yes, K UI sent in his report.

I have not forgotten "Cheese Bits" even though I do have Scarlatina. What's your excuse? Remember, the 15th is the deadline for articles.

TRAGEDY STRIKES THE QTH, or

THE XYL GETS SICK

'Twas a cold, rainy, dreary Thursday morning. XYL up at 6:15 A.M., get breakfast pack lunch and the OM off to the "salt mine". Head feels logy. Read paper and have second cup of coffee before getting Jr. Op. up for school. Go out and bring in milk while waiting for Jr. Op. to dress. Feel funny-kind-of-chilly, sort of clammy. Put sweater on. 8:25 Jr. Op. leaves for school. Feel hot and in cold sweat at same time. Oh, oh, something wrong, better take temperature, 101.6°. That did it, Bufferin and take it easy. Noon Temp. 99°. 3:00 P.M. temp. 101°. Better call the OM's mother and tell her we won't be over. Hot dogs and baked beans for the OM and Jr. Op., Mom's going to bed.

Friday morning, usual routine, temp 99°. Continue treatment and take it easy. Noon temp. normal. Did some ironing in afternoon, Temp. normal rest of the day.

Saturday, up at 6:15 A.M. Get OM off to Clegg Labs, and Jr. Op. off for position try-out on Little League team. Walk to A & P come home do a little cleaning. 1:00 P.M. start feeling funny again. Take temp., 100°. Back to treatment. 2:30 P.M. decide to rest in bed. 5:15 P.M., OM asks if I'm going to get supper ready. Tell him later, while awake take a pill. 6:15, tell OM to open can of Tomato soup for himself and Jr. Op. OM does and says, "That's not enough for two." (Don't men ever read labels?) Tell him you have to add a can of milk to it. Decide better go down and fix it for them. Temp. 101°. Fix soup and dessert call them and go back to bed.

Sunday morning, temp. 99°. Raining out, take no chances by going to Church and Sunday School. Get breakfast ready for Jr. Op. and OM. OM says he has a headache and isn't going. Tell him to go down and eat breakfast anyway. He does and then goes back to bed. Jr. Op. leaves at 10:20. Mom takes pill and goes back to bed. 3:00 P.M. temp. 103°. Tell OM to get me some nitre; know that will make me sweat. 5:15 P.M., hear OM say to Jr. Op., "Looks like mother's not going to get up. Guess we'll have sandwiches for supper." Now, both can cook. In the refrigerator; ground beef, pork chops, hot dogs, grapefruit, carrots and string-beans. In the cabinet; potatoes. Did mother get up? She did not!! About 8:00 P.M. the OM asks if I want anything. I say a cup of tea a little later. 10:00 P.M., put on shoes and robe, go down and say to OM, "I thought you were getting me a cup of tea?" Answer; "I was waiting for you to come down." Temp. 100°.

Monday, up at usual time. Temp. normal. Go to the doctor for usual two week visit. Tell him about my fever and he checks me out, everything back to normal. Attributes it to the virus going

around.

Tuesday morning find rash all over the body. Oh no, I couldn't have the measles! Back to the doctor. Temp. up a little but no measles. Looks like allergy to something I ate. What? I haven't been eating! Gives me pills to take twice a day, liquid diet and citrate of magnesia.

Follow instructions. Meantime tongue starts getting raw, mouth swelling inside and lips dry and scabby. Temp. see-sawing but not enough to worry about. By Thursday rash has almost disappeared.

Return to doctor Friday for check-up. Tell him I still think it was measles. Tell him look at my lips, my tongue isn't as raw and the swelling inside my mouth is going down. Very gently he examines inside my mouth. Goody, goody, it's not the measles or an allergy. It's SCARLATINA! Injection, capsules twice a day, liquid diet, and rinse mouth alternately with milk of magnesia and peroxide. When I rinse with the peroxide I look like a mad dog; foam all over.

Well, it's healing up pretty well, and in a couple of weeks I'll be back to normal.

Why is it, when the OM is sick the XYL climbs up and down the stairs 40 or 50 times a day to see that he eats, takes his medicine, has snacks and books to read, move the TV into the bedroom and see anything special he has to show her. But when she is sick, and it's the first time in twelve years, she must drag herself out of bed to take care of the OM regardless? The next time I get sick, I'm going to the hospital and let them fend for themselves. How helpless can the male animal be?

FREQUENCY CONVERSION TABLE-8 MC to

220 MC

COURTESY, "ALMO QSO"

8148	219.996 MC	8173	.671 MC
8149	220.023	8174	.698
8150	.050	8175	.725
8151	.077	8176	.752
8152	.104	8177	.779
8153	.131	8178	.806
8154	.158	8179	.833
8155	.185	8180	.860
8156	.212	8181	.887
8157	.239	8182	.914
8158	.266	8183	.941
8159	.293	8184	.968
8160	.320	8185	.995
8161	.347	8186	221.022
8162	.374	8187	.049
8163	.401	8188	.076
8164	.428	8189	.103
8165	.455	8190	.130
8166	.482	8191	.157
8167	.509	8192	.184
8168	.536	8193	.211
8169	.563	8194	.238
8170	.590	8195	.265
8171	.617	8196	.292
8172	.644	8197	.319

8198	.346 MC	8257	.209 MC
8199	.373	8268	.236
8200	.400	8269	.263
8201	.427	8270	.290
8202	.454	8271	.317
8203	.481	8272	.344
8204	.508	8273	.371
8205	.535	8274	.398
8206	.562	8275	.425
8207	.589	8276	.452
8208	.616	8277	.479
8209	.643	8278	.506
8210	.670	8279	.533
8211	.697	8280	.560
8212	.724	8281	.587
8213	.751	8282	.614
8214	.768	8283	.641
8215	.805	8284	.668
8216	.832	8285	.695
8217	.859	8286	.722
8218	.886	8287	.749
8219	.913	8288	.776
8220	.940	8289	.803
8221	.967	8290	.830
8222	.994	8291	.857
8223	222.021	8292	.884
8224	.048	8293	.911
8225	.075	8294	.938
8226	.102	8295	.965
8227	.129	8296	.992
8228	.156	8297	224.019
8229	.183	8298	.046
8230	.210	8299	.073
8231	.237	8300	.100
8232	.264	8301	.127
8233	.291	8302	.154
8234	.318	8303	.181
8235	.345	8304	.208
8236	.372	8305	.235
8237	.399	8306	.262
8238	.426	8307	.289
8239	.453	8308	.316
8240	.480	8309	.343
8241	.507	8310	.370
8242	.534	8311	.397
8243	.561	8312	.424
8244	.588	8313	.451
8245	.615	8314	.478
8246	.642	8315	.505
8247	.669	8316	.532
8248	.696	8317	.559
8249	.723	8318	.586
8250	.750	8319	.613
8251	.777	8320	.640
8252	.804	8321	.667
8253	.831	8322	.694
8254	.858	8323	.721
8255	.885	8324	.748
8256	.912	8325	.775
8257	.939	8326	.802
8258	.966	8327	.829
8259	.993	8328	.856
8260	223.020	8329	.883
8261	.047	8330	.910
8262	.074	8331	.937
8263	.101	8332	.964
8264	.128	8333	.991
8265	.155	8334	225.018
8266	.182		

For every 1/2 KC up, or down, add or subtract 1/2 of 27.

"ALMO QSO" ANNOUNCES A NEW FEATURE

"THE ALMO CLUB OF THE MONTH"

(next page)

The editor of "Almo QSO", W3GJF, John Llopes, feels that the Radio Club is the heart of ham radio and as such deserves local recognition. Therefore, in keeping with this idea, radio clubs in the area will receive a certificate, printed on a separate page each month in "Almo QSO", starting with the May 1962 issue.

The club of the month for May will be "The Northeast High School Transmitting Society" of which our own W3NSI, Lyn is the trustee.

The club of the month for June will be "Mt. Airy V.H.F. Radio Club, Inc."

Each club of the month will receive a gavel with the inscription, "Almo Club of the Month" and the date.

To be eligible the club must send a brief history of the club to the editor of "Almo QSO".

NEW PRODUCTS OF INTEREST TO HAMS

By W3NSI, Lyn Rowland

1. Clegg VHF Interceptor Receiver - 144 & 50 Mc

A deluxe item for the serious VHF operator--with price to match--\$473.

Seven nuvistors (all 6cw4) used on the 2M band, four being used in the 2M converter which is a sub chassis within the receiver, and three more used in the 6M section, which is used as the IF on 2M. Two nuvistors are used in cascade in the 2M RF section working into a nuvistor triode mixer to 50 mc IF. The 4th nuvistor is used as a crystal osc. using a 94 Mc crystal. On the 6M band a 6cw4 nuvistor is used in a grid RF stage feeding a 6cw4 triode mixer to 10.7 mc. The last 6cw4 nuvistor is used in the tunable asc. section covering 1mc (455 kc below the 1st IF freq). Two stages of 455 kc IF are used. Four 1mc ranges are covered by switching four different crystals into the 6M converter sec. An interesting feature of this receiver, which apparently was added as an afterthought, is the series of front end filters ahead of the 6M RF stage. These were designed to eliminate a few "extra" signals on this band.

2. Two-in-One Gas Generator--110 VAC at 200 watts, 300 on surge. Also provided with an output connection to charge 6 & 12 V batteries at up to 10 amps. Known as the KGC-3, the new version of this unit will have a removable handle and charger cord. According to the manufacturer there are no brushes or moving contacts, so it is probably one of the "inside-out" units. Weighs about 23 pounds !!!, Very compact !!! Krestronics Corp, 140 Sheldon

St., El Segundo, Calif. Price \$149.50 (list), (Mfr. indicates that "special communications groups may purchase for \$89.70 + shipping \$6.50.

73,
Lyn

K.U.I.

By W3HKZ, Ed Kushner

CONELRAD REPLACEMENT--The 11-year-old Conelrad system is to be replaced by a new system of control over broadcasting and TV to improve civil defense and military communications objectives. The new system, it is reported, will be designed to permit the President and other federal, state and local officials instantaneous access to the more than 2000 broadcasting and TV stations in the event of a national emergency. The broadcasting industry had spent more than \$20 million equipping their stations for the Conelrad mission since it was instituted in 1951, as well as loss of many hundreds of thousands of dollars of commercial time pre-empted by Conelrad drills.

National Press Bldg. Roland C. Davies
Washington, 4, D.C.

At the request of the ARRL, the FCC has postponed to May 16 the deadline for comments to charge a fee for all applications. Reply comments are now due June 16.

James F. McDonough, General Manager of a Florida commercial station and an amateur operator as well, found the entire FCC proposal "odious"--but particularly that part dealing with amateurs' licenses, since they serve free in times of emergency. In case of professional operators, he said, the fee amounts to a "right-to-work levy."

There are 2 new Nuvistor tubes out now. Medium- μ triode 8056 is designed for operation from a plate supply voltage of 12 to 50 volts. The tube has a transconductance of 8000 umhos at 12 v and 5.8 ma. Double ended high- μ triode 8058 is designed for use in cathode-drive amplifier service at frequencies up to 1200 mc. The tube has a transconductance of 12,400 umhos at 10 ma plate current and 110 v plate supply.

Designed specifically for the mobile communications field is the 7984 Compactron, (tube mentioned in last month "New Products", this is the breakdown) when used in the 2 meter band, is rated at 45 watts power output as compared to 35 watts for a 6146. The 7984 delivers its 28% greater power output at less driving power than required for the 6146. By eliminating the top cap and the composition base the tube is $\frac{3}{4}$ " shorter and gets rid of the long plate lead. Electronically
(next page)

superior to the 6146, the new tube is easier to design into VHF gear. Internal leads have been shortened as much as 1/2" by eliminating the base, it can handle shock and vibration better and has less internal capacity.

50,000-micromho, low noise 7768 ceramic tube delivers high gain at wide band widths. Constructed in metal and ceramic, the 7768 requires no special cooling even in ambients over 200° C. Maximum ratings include: 330 plate volts, 515 watts plate dissipation and 30 ma cathode current. Noise figure, 50 mc .5 db, 144 mc 1.3 db, 432 mc 3 db, 1296 mc 7 db and 220 mc 2.5 db.

**** * * * * *

American amateur radio operators are preparing a new space experiment using the Echo A-12 communications satellite scheduled for launching late this year. A group of hams with special equipment will attempt to bounce signals off the passive satellite, a 135 foot reflecting sphere to be placed in orbit by NASA for structural tests and for independent communications experiments.

The hams expect that satellite relay techniques, if successful, may eventually nearly double the range of amateur communication in those regions of the radio spectrum that are free from "blackout" and other disturbances.

The Federal Space Agency, which is encouraging photographic, visual, radar and radio experiments with the satellite, will assist the radio operators by providing advisory information, technical data and tracking information. Echo A-12 will be a giant inflated sphere with an exterior surface of aluminum alloy foil laminated to plastic.

At present, the range of tropospheric scatter communications used by hams in the VHF region is about 500 miles. They believe it may be possible to increase this reliable range to approximately 1000 miles by use of the satellite. VHF and UHF are relatively free from effects of sunspot storms, from blackouts and from other disturbances which plague the lower ham bands. They are also much better suited to satellite communication because they act as a window through which signals can pass into space with the least absorption by the earth's atmosphere.

Hams working on Echo A-12 project will track the satellite by means of radio beacons attached to the satellite and by orbital data sent out by the Goodard Space Flight Center, Greenbelt, Md. As they follow the satellite on its path, the hams will beam signals at it on 144 mc. Although Echo A-12 will offer hams the first opportunity for practical, extended communication via satellite amateurs operators have been actively involved in space communications for

some time.

Hams provided most of the tracking information for the first 2 or 3 days after Sputnik I was launched and they have been engaged since in moonbounce, meteor scatter communications research and other satellite work. The Echo A-12 project will benefit from tracking techniques developed by Project Oscar, and orbiting transmitter designed and built by hams. Hams have bounced radio signals off the ionized trails of two satellites (Explorer 7 and Sputnik 3) in the first successful two-way communication with the aid of artificial satellites.

73,
Ed

In keeping with K.U.I.'s last paragraph, we present;

OFFICIAL BULLETIN NR 844 FROM ARRL HDQ. APRIL 18, 1962

TO ALL RADIO AMATEURS BT

Another Oscar 145 Mc beacon satellite will shortly be launched by the U.S. Air Force. The exact date is classified but expected sometime in May, or June at the latest. Oscar package substantially identical to first launch so all information previously in QST is applicable. Second launch aims at additional training for amateurs in tracking procedures looking toward later repeater satellite. Get your two meter gear in top shape and be ready for Oscar II.

AR

QRX SIX METERS

By Jule Bernoff, K3MSV

(Jule, there are two reasons you are lucky in having your column in this month. 1. Due to being sick, I just started "Cheese Bits" on the 24th; 2. The meeting was changed from the 18th to the 26th. From now on may I please have it by the 15th?)

First off, congrats to Mother Rat for a super fine bus. Issue of "Cheese Bits" last month. We didn't realize that our column was so long. Ma, we promise to keep it shorter in the future. With all of the valuable and pertinent info that the issues contain you can certainly do with less of this rubble!!!

This month we have the following to report: Dave, K3BPK/3 and his Dad, Ben, K3ESL, gave us a first hand report on their activities in the search for 2 1/2 year old Steven Brown on April 6. This was a tragic story. Many, many hams (and others) used their mobile rigs in this unsuccessful search. Dave spent a grueling afternoon on six meters from the mobile rig and Ben helped relay information on the search from the home QTH. Our heartfelt sympathy goes out to the parents of this boy who was drowned in a pool near his home. And our sincere appre-

ciation to the Hams who contributed unsuccessfully in his search...

W3CKP reports that Massachusetts can be worked at this time of year when the warm weather comes in....K3HWZ reports hearing K1QDJ Aero Mobile at the edge of N.Y and Mass. working "2'S" also many fellows in Jersey working "4's" on ground wave late at night... We were lucky one evening (April 11) worked K3INK in Baltimore who had traffic for Bethlehem; we then contacted K3EUB, 3 miles west of Reading and relayed the message....K3EKK/2 is now all settled in Riverside, N.J. and reports working N.N.J., 5x9 on an indoor halo...what's become of Bickle Vickie Zickle.... W3GEW has a new 2E26 on Six and is modulating it with a Hi-Fi, sounds real good....We understand that K3JJZ is having a new batch of QSL Cards printed with Glen Ira's picture showing Glen in the operating position (Now we know where all of those "Gaa-gaas and goo-goos" have been coming from at 50.25 mcs.) Have you heard the pros and cons being discussed about the proposal to put the techs on ten meters???? If you are in favor of it, don't forget to write a letter stating your views to the ARRL. That's all for now, let's hope that in next month's column we are able to report on some good band openings brought on with some good warm weather.

73,
Jul

TWO METER ACTIVITY

By "Tweaker Rat", W3LHF, Dave Zimmerman

The summer VHF season is coming up on us fast men, and by the time you read this, it is more than likely that some of that good extended ground wave into New England an Up-State New York will be with us.

The two meter band shows a few signs of coming to life. The first sign is that during the first week of April about six to ten Phila area stations were heard on most evenings in QSO. This may not sound high, but two or three was the average previously. Also W1TLZ was heard calling CQ on fone and in QSO twice during the second week. Long Island is heard almost every nite during the last two weeks in April and worked frequently, although many Long Island stations do not point their beams and tune the band after their local contacts.

Sinday mornings seem to hold good promise also; apparently the inversion is good for the New England boys are strong (S5-S7) and many of them seem to operate only at this time. More on this later for I have feelers out for more specific information.

Now is the time to check out receiving set-ups, gang, to see how the system compares. Point your beam west and

listen for W8KAY on cw at 2200, 144.3 mc. He holds a nightly sked with K2IEJ who is at 144.03 with no misses that I have heard. W8KAY is about S3 on most nights and most of the fellows should be able to hear him, even though some imagination is often needed to copy what he says.

The certificate collectors among us may be interested to know that a nice engraved (I am told) model is available for working twelve out of the fifteen members of "The Windblowers Club" who meet at 144.9 mc every Friday nite at 2100. Send request (no QSL's needed) to W2ERZ, 288 Barnera St., Totowa, N.J. The following are reported members

- K2BC K2CMB K2EHR W2ERZ W2FEM
- K2GDS W2IBM K2ILO W2IMG W2ISK
- W2MLM W2NUL W2WBY W2ESW

To the best of my knowledge, I have worked no more than two or three of these fellows and have not been available to listen for them at this time, but plan to do so soon. All are in NNJ and NY-LI, but if their sigs are weak it may be harder to accomplish than would appear.

A few more stations have been heard on SSB including W3HEC with a boomer from Lancaster. W1MEH several times on cw and SSB with good strength. A SSB round table seems to be in progress every night at 144.1 mc with NNJ and NY stations. Overheard W3HEC say that his main reason in SSB was to work VE's this summer. Bet he makes it too! Speaking of VE's, I finally got my card from VELTV for a contact in Sept. '61 and he says that there is activity every night up his way on two meters and that their beams are usually SW, so maybe we will get more than one opening to his distance this year.

That's it for now, 73 and see you on two.

W3LHF "Tweaker Rat"

"SWAP AND SHOPPE"

Conducted by; W3ZRR, Ray Whitehead,
4534 Smedley Street,
Phila., 40, Penna.
215- DA. 4-5910

FOR SALE: Hallicrafter SX101 Mark 3
New condition \$250.00

Gonset 3- 2 meter Communicator.
New condition-4Xtals.
\$175.00

6 Meter console unit-
Complete station built into
40" long cabinet with fold
down table top, which pro-
tects equipment in up po-
sition.

VFD Xmtr with Variac, 2 kw
to control plate voltage on
modulator and power ampli-
fier. Power input can be
run from 50 to 600 watts by
advancing variac control.

(next page)

"SWAP AND SHOPPE" (cont'd)

Receiver uses 2 6AJ4 Grd grid RF Amp. in Xtal Control converter feeding tunable IF unit on 6 mc. Phone or cw, ready to go. Completely enclosed, including 2 built-in speakers. Price \$275.00 or will accept partial trade.

CONTACT: W3NSI, Lynford Rowland, Jr. 1822 Dallas Street, Phila., 26, Pa. 215- HA. 4-0875

FOR SALE: Complete six meter phone station. All home brew from handbook schematics. Built from new high quality parts just nine months ago. 50 watts plate modulated 6146 RF section, broad band 6U8 vary "L" osc. Modulator pushpull 6L6's in AB1. Separate power supplies for modulator and RF sections. National 6n2 vfo, which will drive rig just as well as crystals. Receiver 12 tubes 2 nuvistors, three mech. filters and 4 IF amplifiers gives good sensitivity and selectivity. Voltage regulated osc., sensitive "s" meter, tuning with National dial. Also included, all connecting cables, coax relays, 4 element Telrex beam. Complete station guaranteed and ready to fire up. Just \$175.00 or will swap for Hallicrafters SX 111.

CONTACT: K3QWV, William Arnold 4005 Westway Drive, Lafayette Hills, Pa. 215- TA. 8-3568

FOR SALE: RCA Model Et 8028-X Marine radio telephone. (ship to shore) Best offer.

75 Meter complete station. Transmitter, receiver, power supply, plate modulated, VFO. \$65.00

15 Meter converter, output to 80 Meters. Built in power supply.

Best offer.

CONTACT: K3BPK, David Gindin 6504 Roosevelt Boulevard, Phila., 49, Pa. 215- JE. 3-1849

FOR SALE: Gonset II, 2 meters, Like new. \$125.00 Complete 6 and 2 meter station. Sell as one unit. Globe Hi-Bander, with Globe VFO, power booster speech amplifier. Receiver, NC 98 with Ameco Converter for 6, also Ameco Nuvisitor Pre-amp and power supply for both. Brownie 2 meter converter and pre-amp receiver with National speaker enclosed. Mike; Electro Voice Ceramic.

2 Dow key relays and Drake 1000 low pass filter.

\$225.00

CONTACT: K3EQO, Milton Miller 7875 Anita Drive, Phila., 11, Pa. 215- FI. 2-8774

FOR SALE: Gonset Communicator II-B, 2 meter, 12/115 volt

\$125.00

Gonset VHF Power Amplifier, 2 meter linear #3063

\$75.00

Globe VFO, Model 6-2, 2 & 6 meter, factory wired.

\$25.00

417 A Converter, 2 meter, 14 to 18 mc output.

\$25.00

Hy-Gain 8 element Model 68-6 6 meter beam (12DB)

\$13.00

Hy-Gain 10 element Model 210, 2 meter beam.

\$ 6.00

CONTACT: W3UZF, Alan F. Kehr, 1209 Dixon Lane, Rydal, Pa. 215- TU. 6-6919

FOR SALE: Measurements Corporation Vacuum Tube Voltmeter Model 62. DC and AC to 1000 Megacycles Ranges 1,3,10,30,100 volts. Price \$25.00, or will swap for good grid dip meter, or a prop pitch motor.

CONTACT: K3IUU, Bert Soltoff 8582 Benton Avenue, Phila., 15, Pa. 215- PI. 2-2619

One of the above sellers requested that we run the articles in "Cheese Bits" until sold. We have no way of knowing whether or not the sale has been made unless notification is sent to W3ZRR. Otherwise the articles can be listed month after month. Please co-operate.

"WHAT HAPPENS"

SYMPATHY: We extend our heartfelt sympathy to W3SMK, Jim, on the passing of his mother. To K3KVS, Jerry, on the passing of his father. To W3FQD, Dick, on the passing of his father.

Welcome home to the Jr. Op. of W3KXH, Jim. Stay well, boy.

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What do you know, W3CFS, Ed, attended the Reading Radio Club's Banquet in March. Had a grand time. He is now able to stay put on Frequency with a very stable VFO. He also received his copy of "Cheese Bits" on time for once.

"SWAP AND SHOPPE" (cont'd)

Receiver uses 2 6AJ4 Grd grid RF Amp. in Xtal Control converter feeding tunable IF unit on 6 mc. Phone or cw, ready to go. Completely enclosed, including 2 built-in speakers. Price \$275.00 or will accept partial trade.

CONTACT: W3NSI, Lynford Rowland, Jr. 1822 Dallas Street, Phila., 26, Pa. 215- HA. 4-0875

FOR SALE: Complete six meter phone station. All home brew from handbook schematics. Built from new high quality parts just nine months ago. 50 watts plate modulated 6L46 RF section, broad band 6U8 vary "L" osc. Modulator pushpull 6L6's in AB1. Separate power supplies for modulator and RF sections. National 6N2 vfo, which will drive rig just as well as crystals. Receiver 12 tubes 2 nuvistors, three mech. filters and 4 IF amplifiers gives good sensitivity and selectivity. Voltage regulated osc., sensitive "s" meter, tuning with National dial.. Also included, all connecting cables, coax relays, 4 element Telrex beam. Complete station guaranteed and ready to fire up. Just \$175.00 or will swap for Hallicrafters SX 111.

CONTACT: K3QWV, William Arnold 4005 Westway Drive, Lafayette Hills, Pa. 215- TA. 8-3568

FOR SALE: RCA Model Et 8028-X Marine radio telephone. (ship to shore) Best offer.

75 Meter complete station. Transmitter, receiver, power supply, plate modulated, VFO. \$65.00

15 Meter converter, output to 80 Meters. Built in power supply.

Best offer.

CONTACT: K3BPK, David Gindin 6504 Roosevelt Boulevard, Phila., 49, Pa. 215- JE. 3-1849

FOR SALE: Gonset II, 2 meters, Like new. \$125.00 Complete 6 and 2 meter station. Sell as one unit. Globe Hi-Bander, with Globe VFO, power booster speech amplifier. Receiver, NC 98 with Ameco Converter for 6, also Ameco Nuvistor Pre-amp and power supply for both. Brownie 2 meter converter and pre-amp receiver with National speaker enclosed. Mike; Electro Voice Ceramic.

2 Dow key relays and Drake 1000 low pass filter. \$225.00

CONTACT: K3EQO, Milton Miller 7875 Anita Drive, Phila., 11, Pa. 215- FI. 2-8774

FOR SALE: Gonset Communicator II-B, 2 meter, 12/115 volt

\$125.00 Gonset VHF Power Amplifier, 2 meter linear #3063

\$75.00 Globe VFO, Model 6-2, 2 & 6 meter, factory wired.

\$25.00 417 A Converter, 2 meter, 14 to 18 mc output.

\$25.00 Hy-Gain 8 element Model 68-G 6 meter beam (12DB)

\$13.00 Hy-Gain 10 element Model 210, 2 meter beam.

\$ 6.00

CONTACT: W3UZF, Alan F. Kehr, 1209 Dixon Lane, Rydal, Pa. 215- TU. 6-6919

FOR SALE: Measurements Corporation Vacuum Tube Voltmeter Model 62. DC and AC to 1000 Megacycles Ranges 1,3,10,30,100 volts. Price \$25.00, or will swap for good grid dip meter, or a prop pitch motor.

CONTACT: K3IUU, Bert Soltoff 8582 Benton Avenue, Phila., 15, Pa. 215- PI. 2-2619

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<u>Station</u>	<u>Military</u> <u>Freqs. (KCS)</u>	<u>Appropriate</u> <u>Amateur Bands</u> <u>(MCS)</u>
NSS (Navy radio, Wash, D.C. (cont'd))	3319 RATT 7895 RATT 14480 RATT	3.5 to 3.28 7. to 7.2 14 to 14.2

*The Novice Section of the 15 meter band will be monitored primarily for those new operators who may be unable to work into the 40 and 80 meter bands. Contacts will be acknowledged on 13975.5 KCS.

** Operator transmitting on 4012.5 (AM) will listen in the AM, SSB sections of the 40 and 75 meter bands for AM or SSB stations.

AIR (Air Force radio, Wash, D.C.)	3397.5 (CW) 13995 (CW) 20873 (CW)	3.5 to 3.8 14 to 14.2 21 to 21.25
	*7305 (SSB) *14405 (SSB) 7915 (RATT)	7.2 to 7.3 14.2 to 14.35 7 to 7.2

*Operators transmitting on these frequencies will listen for AM or SSB signals within the appropriate bands.

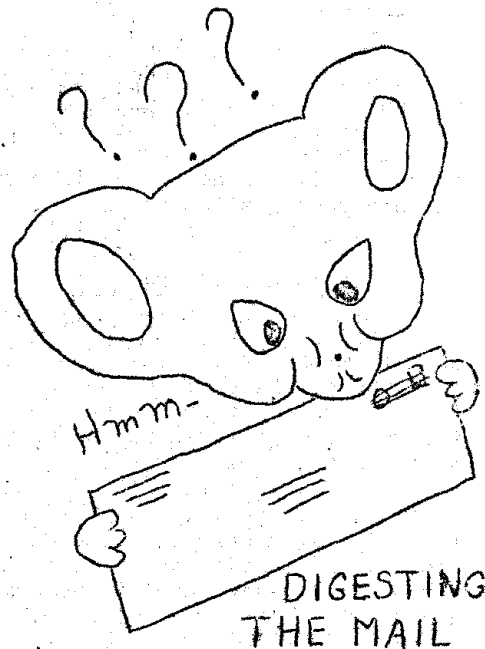
Military stations will listen for calls from amateur within the appropriate amateur bands. Contacts will consist of a brief exchange of location and signal report. This is a test of military-to-amateur communications and no traffic handling or message exchange will be permitted.

7. Other Amateur Activity: In addition to the program outlined above, it is considered to be in the spirit of the occasion for amateur radio stations at naval activities to engage extensively in contacts with other amateur stations on Armed Forces Day and to handle bona fide amateur traffic. However, artificial generation of messages such as "Greetings on Armed Forces Day" should be avoided.

BERNARD F. ROEDER
By direction.

The YORK ROAD RADIO CLUB is now meeting in TOWN HALL, GERMATOWN AVENUE & HAINES STREET, on the 1st and 3rd Tuesday of each month at 7:30 P.M. Good luck on your new meeting place.

THE PACK RATS FAMILY DAY & PICNIC IS COMING UP SOON, SUNDAY, AUGUST 12 TO BE EXACT!! MAKE ARRANGEMENT NOW TO ATTEND! FORT WASHINGTON STATE PARK, FLOURTOWN, PA. \$1.00 PER FAMILY! TALK-IN FREQUENCIES: 144.2 & 50.2 CALL: W3CCX. JUST A GOOD OLD-FASHIONED PICNIC. BRING YOUR LUNCH AND YOUR FAMILY. PAY AT THE PARK.



THE EAST COAST V.H.F. SOCIETY IS HOLDING ITS HAMFEST ON SUNDAY, AUGUST 5, (RAIN DATE: AUGUST 12)

They plan to charter a bus to come to our picnic, and ask us to do like wise.

More details when I receive them.

April 14, 1962

Dear Helen:

Just returned from a most interesting visit to the Reading Radio Club. All of us enjoyed a couple of hours of gabbing. Had to drag W2AXU and W3CPT out by the heels to get home by 1 A.M. More on the visit later.

73,
Dave, W3LHF.

FROM C.B. PRESS

"MAYDAY" ORIGINATOR DIES.

LONDON, England-- Radio Pioneer F. Stanley Mockford, 65, the man who originated the distress call "Mayday" died March 1st in London, England.

Mockford began his career in wireless in the Royal Flying Corps in 1915. Later while on the staff of the Air Ministry he devised the first phonetic alphabet and also introduced the term "Mayday", which is still used to this date.

If you ever wondered where "mayday" got its meaning, here is your answer. "Mayday" is the English pronunciation of the French word "m'aidez", meaning "help me".

Although originated in England, the word is used as an international distress signal and should only be used in case of danger to life. Other words have been accepted for emergency use such as "Pan", meaning "I need (next page)

help--urgent by not serious".

When the words "Mayday" or "Pan" are used, all listeners should not transmit unless they are the closest station that can render assistance. It is your duty to stand-by on the frequency until the emergency is over, in case your station is needed.

ORIGIN OF THE WORD HAM

From "Auto Call" April 1962

We note with a few misgivings that the same old blurb is going the rounds in the swap papers and even one of the overseas journals has succumbed to the myth. This story concerns the discussion in Congress of an amateur station, and the initial letters of three involved were H, A and M, and finally the participants got to using these initials instead of the names and Presto! the name was born.

The only trouble here is that the ARRL made an exhaustive survey of this story and could find nothing, absolutely nothing to substantiate it! The Congressional Record of those days shows nothing of this story. The ARRL has published its results on many occasions but apparently the story keeps on going the rounds just as if it were true.

AREA NEWS RELEASE #56

pp6. IT HAPPENED LONG AGO:

Quite a few hams are now observing, at their own election, "Quiet Hours". This is nothing new. We had "Quiet Hours" with us years ago. However in the large cities, people stay up for late movies on TV. 8 P.M. to 10:30 P.M. group go to bed at 11 P.M., then a new group take over the viewing until 1 A.M. This would be too much to ask a ham to observe both time periods as "Quiet Hours". However, unless we do get on the ball and strive to improve public relations, and hope that the manufacturers will put in the filters, we may have this subject to contend with. It may be a local condition, but recently one manufacturer refused to hand out filters as they have been doing for many years. This was reported by K8SCI at Lakewood, O. My answer to any amateur who is going through TVI problems is first to make sure he is a member of the ARRL, then join some local amateur radio club.

(Ed's note) In regards to the preceding, I would like to reprint the following from "The VHF Amateur", March issue. You will see that it is not a local condition in Ohio.

SOUND OFF!

"I have decided to write this letter in an effort to correct a misconception that you have left in many of your reader's minds. You have made

several statements that TV manufacturers will in all cases send out free high pass filters when proper application is made. This is not true. Admiral has consistently given the amateur a hard time about this and still refuses to give out filters to set owners who have a second hand or sets over two years old. In some cases they have even refused filters to BRAND NEW set owners.

What can be done in a case like this? I am starting a campaign to blackball all Admiral appliances by warning the public to be careful of the products they buy. Only pressure from the public will make Admiral change their policy. Anyone else have any suggestions?

Samuel W. Daskam, K2DPI
RFD #1, Lebanon, N.J.

Dear Sam:

First I would like to ask you two questions. Are you a member of the ARRL, and Do you belong to a radio club? Most radio clubs have a TVI Committee, suggested and approved by both the ARRL and the FCC. In fact the FCC usually contacts local clubs asking them to set up a TVI Committee.

Now, may I suggest, that before you start on a campaign on your own, which may prove to be expensive, you contact the Chairman of the TVI Committee in your club (assuming you belong to a club), and apprise him of the situation, and ask him to write a letter to Admiral protesting such a policy. Then he, as Chairman, can ask the club to contact the regional office of the FCC requesting them to contact Admiral also. The club can also contact the ARRL and let them know of the situation.

I may be wrong, but I am almost certain that it was through the insistence of the FCC the manufacturers are to supply these filter, free of charge. Of course the TV set owner must have a service man to install them.

Since this situation seems to exist in different parts of the country, I feel that pressure from radio clubs, regional offices of the FCC and ARRL, may have more effect than blackballing their products, although that will cut a big slice off their profit.

If one company is permitted to get out of line, without protests, it stands to reason other companies will follow suit.

I am printing my reply to you in our club paper so that our readers and other clubs will be apprised of the situation. They may take action according to my suggestion, or may have better suggestions to offer you.

The address that we have for filters

from Admiral is;

ADMIRAL DISTRIBUTORS
c/o MR. DURANTE
497 N. Railroad Avenue,
Newark, N.J.

I assume, being in New Jersey, you have the same address.

I am enclosing a copy of the letter which is attached to forms for the complainant to fill out and mail, along with the address of TV manufacturers supplying filters, which the members of our club gives to each TVI complainant.

Wishing you luck, and hope my suggestions will be of some help, I remain, with best of 73,

Helen Brick

We are not recruiting for Naval Reserve, but we are printing this, which we received from AREA via the Philadelphia Navy Yard, for the benefit of our young readers, and parents of Jr. Ops. who have yet to fulfill their military service requirements.

U.S. NAVAL RESERVE

If you are a U.S. Citizen, you are obligated under the provisions of the Universal Military Training and Service Act on reaching the age of 18 to serve at least six years with one of the components of the Armed Forces, you should carefully consider its effect on your future. Don't depend on chance to help settle one of the most important decisions you will ever have to make. You do have a choice as to how you discharge your military obligation and you are entitled to know all the available facts before making your choice. Here are the facts which show the advantages of the Naval Reserve.

Only in the Naval Reserve can you, the Amateur, enlist in a pay grade higher than the regular recruit. If you enlist in the Naval Reserve under the special rating program you will be designated a Radioman striker or Radioman Petty Officer. If you are between the ages of 17 and 26 and hold a general or higher class of Amateur Radio License, the Naval Reserve is the place for you. Normally the individual joins the Naval Reserve as a Seaman Recruit. After nine months, he can become a seaman. After fifteen months he could reach radioman petty officer third class. After another year he might reach radioman petty officer second class. But you, the Amateur, with your special skills can enlist at the advanced grade of "Seaman" - two promotions up the ladder. As soon as you pass a required test or complete a correspondence course dealing with your hobby, you will be promoted immediately to Radioman Petty Officer second class. In other words, you can condense into a short interim what it normally takes other reservists 2½ years to accomp-

lish.

What about active duty? You will have to agree to perform two years of active duty commencing about one year after your enlistment. The date of active duty may be selected anytime during the first year. Regulations provide a means whereby members in college or planning to attend college may receive a deferment by agreeing to enlist for two years of active duty upon completion of college, or if eligible, select one of the several candidate programs offered to members of the Naval Reserve. Acceptance in any officer candidate program will defer active duty until graduation from college. Time spent in the Reserve Program while attending college will be credited toward fulfillment of your military obligation.

You are cordially invited to visit the Naval Reserve Training Center in your area. See for yourself the types of equipment used in radio training. Meet the competent, well qualified communication personnel who stands ready and willing to instruct and assist you.

The following chart illustrates which can be yours by enlistment in the Naval Reserve.

<u>QST</u>	<u>QST</u>	<u>QST</u>	<u>QST</u>	<u>QST</u>	<u>QST</u>
<u>U.S. NAVAL RESERVE SPECIAL RATING</u>					
<u>PROGRAM FOR AMATEURS</u>					
<u>LICENSE HELD</u>	<u>RATE IN WHICH ENLISTED</u>		<u>QUALIFIED ADVANCED TO</u>		
<u>Radiotelegraph Commercial.</u>					
First Class	Seaman		RM 2nd class		
Second Class	Seaman		RM 2nd class		
Third Class	Seaman		RM 3rd class		
<u>Amateur</u>					
Extra Class	Seaman		RM 2nd class		
Advanced ("A")	Seaman		RM 3rd class		
Conditional ("C")	Seaman		Radioman Seaman		

TECHNICIANS ON 10

It seems that in printing the letters received from WAGRAX and WA6BZA in the last issue, we have aroused the bee in the bonnet. If you will re-read it, you will see that the editor made no comment pro or con. We merely printed what we received for what it was worth. Now to "soothe the savage beast" we will reprint the editorial from "The Technician". We ask you to please keep in mind that he is a technician.

"THE TECHNICIAN" EDITORIAL

ARMOND M. NOBLE, K7MFA

There seems to be a great deal of interest in the possibility of the 10 meter band being opened to Technicians. It is being taken up at the May meeting of the ARRL Board, for possible presentation to the FCC.

It would be most pathetic if the Technicians flocked en masse to the 10 meter band and deserted the higher VHF bands altogether. The reason for the move would be because of skip contacts on that band. If all there is to ham radio is making skip contacts and getting QSL cards, it is in sad shape!

What could a person do on the lower bands, that hasn't already BEEN done thousands of times before? Meanwhile, the challenges that exist on the VHF bands are tremendous.

The VHF bands offer a chance to stand apart from the DX hounds and certificate seekers on the lower bands; whose only interest lies in long-drawn-out rag chews and collecting wallpaper. It takes a TRUE amateur radio operator to study propagation and to utilize proper VHF construction techniques.

The VHF bands are a fertile field for exploration and research. Instead of "chewing the rag" on ten meters, wouldn't it be better to be sending in VHF QES reports to the ARRL, and participating in other scientific projects? Granted, rag-chewing is a most enjoyable pasttime, and chasing DX is exciting, but there are more facets of ham radio to go into and enjoy. Let us look at the end results. What would be more satisfying to the individual and also aid in advancing the "State of the art"....working all states on the lower bands, or having one of the longest distance contacts on 420???

There is a place in the Space Age for the amateur, the amateur who is equipped electronically and mentally. The next few years should be years of fascinating projects in which to participate. According to several amateurs who have been in the game for many years (on all bands), tracking the OSCAR satellite was one of their greatest thrills in amateur radio.

What does the future hold in store for 144, 220, 420 and up? Look at some of the tremendous long distance contacts that there have been recently. This type of work can be done by any conscientious Technician.

Certainly, the prospect of having ten meters is an exciting one; one that we hope will materialize, - but let's stop and think before we ALL stampede DOWN the ladder. Let's ALSO remember that the real challenges, and the new frontiers lie in the other direction
.....UP.

MOBILE INSURANCE

From "THE VHF AMATEUR" by Dave Heller, K3HNP

Have you a mobile rig? Will you ever have a mobile rig? If so, read this and remember it - act immediately if you should.

"For the purpose of determining the symbol for a private passenger automobile which is equipped with (air conditioning) and/or a TWO-WAY TELEPHONE OR RADIO COMMUNICATIONS SYSTEM, the applicable symbol shall be increased to the next higher premium symbol rating group. SUCH EQUIPMENT SHALL BE DECLARED AND DESCRIBED IN THE POLICY. This rule does not apply to ordinary accessories such as..."

Such an insurance premium will be a little higher, but it is well worth the investment. Ever see QST's stolen Gonset listing?

EXCERPT OF LETTER FROM F.E. HANDY, W1BDI

April 5, 1962

"...May I compliment you on the excellent 16 page "Directory" of the club which gives the club call and the frequencies and so much information..... We're pleased that you were able to get all the information about the FCC's proposed \$5.00 filing fee in your timely bulletin."

73,
F.E. Handy, W1BDI
Communications
Manager, ARRL

LATE K.U.I.

By W3HKZ, Ed Kushner

The Federal government is seeking electronic inventions. Anyone who has an invention or a fresh approach to these needs is urged to write to the National Inventors Council, US Department of Commerce, Washington, 25, D.C. The following is a selected list of electronic inventions sought.

Miniature Antenna in the 6-60 MC Range-An antenna not over 6' in any demension, weighing less than 100 lbs and capable of handling 200 watts average power over the 6-60 MC Range with an impedance of 50-75 ohms. Omni-directional to 90° beam width in the hor. plane and a minigum beam width in the ver. plane of 20°. Linear polarization is desired.

PROJECTILE ANTENNA-A small rugged and efficient antenna for use on projectiles at VHF and UHF.

METHOD OF TRANSMITTING SPEECH ON TELETYPE CIRCUITS-The use of narrow bandwidths for the transmission of speech requires eliminating the redundancy of speech waveforms and transmitting only the desired information. A single method of extracting this

transmitting it in code, and recreating speech at the terminal end, is needed.

RADIO NOISE ELEMINATION-A need exists for a method to eliminate radio noise, without distortion of the intelligible signal.

SPEECH COMPRESSION TECHNIQUE-A speech compression technique capable of compressing the current 300-3500 cycles/sec speech spectrum into a bandwidth not to exceed 150 cycles per sec. The speech after compression and expansion shall not be indistinguishable from the original.

DISTINCTIVE AUDIO SIGNAL DEVICE- A device capable of producing sound completely distinctive from present sirens, horns, whistles, bells, buzzers, engines or explosions. It should produce this sound at not less than 125 db at 100 feet.

WIRELESS POWER TRANSMISSION-The development of a technique whereby an appreciable amount of power (1000 watts) may be transmitted without use of cables up to 50 miles, and in addition, techniques for accepting this power at the receiving end in a usable form.

RACE RACE RACE

Everyone likes the excitement of a race, so let's have one to see who will be the first to have his name in "Cheese Bits" for not paying their dues!

YOU know whether or not you paid.

If you have not paid, you will have no voice in the nominations at the May meeting, and will not be able to vote at the June meeting. If you still have not paid by the end of June you will be OUT!

Read your By-Laws, "Forfeiture of Membership".

CONSTITUTION & BY-LAWS

If you have not received your latest copy of the Constitution & By-Laws that is because YOU were not at the April meeting as requested. I can name each one of you, as your copy is in an envelope with your name and address on it.

BE AT THE MAY 16 MEETING AND PICK YOURS UP.

NOMINATION OF OFFICERS

Notice is hereby given that at the May 16 meeting Nomination of Officers for the following offices will be held;

President, Vice-President, Recording Secretary, Corresponding Secretary, Treasurer and two Directors, for the year 1962-63.

The Slate of the nominating committee will be presented, and nominations will be accepted from the floor.

HIGHLIGHTS OF APRIL 26 MEETING

In the absence of our President, W2AXU, John Power, in Florida on business, the meeting was ably conducted by our Vice-President, K3IUV, Bert Saltoff.

We extend Birthday Greetings to; Ben, K3ESL; Bob, W3GXB; Stan, K3IPM; Ernie, W3KKN; Bill, W2SXO; Harvey, W3VGN; Hal, W3HFY and Kelly, K3RCN.

A welcome was also extended to the following visitors; Don, K3UCK; Walt, W3FQQ; Frank, K3QPA; Al, KN3UCA; Jack, K3RCV and John, K3PRB.

Bill, K3HWZ, announced that to date he has 67 reservations for Ladies' Nite, May 5th.

Frankie, W3SAO, announced that the captains for the June QSO Party will be as follows; 144MC, Bob, W3GXB; 50 MC, W3MXW, Joe; 220 & 420, Lyn, W3NSI and 1296 MC, Bert, K3IUV.

A meeting of Captains & Assistants will be called soon to further our plans.

Membership; Harry, W3CL, presented the name of K3KKM, "Woody" Smalling to the members for a vote. He was approved. When "Woody" returned to the room he was told that he is to use the phonetics King King Millie so as not to conflict with Ernie, W3KKN, who uses the phonetics King King Nellie. Hi.

Information for your membership book is on the last page.

Harry, W3CL, gave a report on the Cush Craft "Big Wheel" antenna as well as showing us what one looked like. The findings were that it did not live up to expectations.

Ed, W3HKZ gave a very interesting talk and demonstration of "HAM-TV" with his W3HKZ-TV camera and the TV set of Harry, W3CL. We now understand how and why we receive TV Pictures on our home sets.

LATE BULLETIN

OFFICIAL BULLETIN NR 845 FROM ARRL HDQ APRIL 26, 1962

TO ALL RADIO AMATEURS BT

In connection with the United States nuclear tests in the vicinity of Johnston Island in the Pacific, the FCC has been informed that the resultant ionization may produce radio transmission effects principally in the frequency range between 3 and 30 Mc., and for radio paths crossing large areas surrounding that site. This concerns principally long range overseas radio communication. The Commission plans to make observations at its monitoring stations of transmission from appropriate radio stations. FCC will also appreciate receiving reports of any effects observed by commercial and amateur radio operators.

AR

MEETING NOTICES

MAY 9

BOARD OF DIRECTORS

The Board of Directors meeting will be held at the QTH of William McCutcheon, K3HWZ, 124 Orchard Lane, Feasterville, Pa., on Wednesday May 9 at 8:00 P.M.

If for any reason you are unable to attend please call: EL. 7-4972.

MAY 16

GENERAL MEETING

The General Meeting of the club will be held on Wednesday May 16, at the West Oak Lane Jewish Community Center, Sedgwick and Thouron Sts., Mt. Airy, Phila., Pa., at 8:00 P.M.

Nomination of Officers will be held at this meeting.

Our speaker will be, W1HQD, Ed Tilton, VHF Editor, "QST" Magazine

During the intermission, meet and talk with, Al Breiner, W3ZRQ, Assistant Director, Atlantic Division, ARRL and S.C.M. for Eastern Pennsylvania; also;

Emmitt Koehner, W3DUI, Section Emergency Co-ordinator for Eastern Pennsylvania.

WE WILL BE SIX YEARS OLD ON TUESDAY, MAY 15, 1962

FOR YOUR MEMBERSHIP BOOK

K3KKM, ELMER (WOODY) SMALLING, 3rd, XYL,
1633 Woodbrook Lane, NANCY JEAN
Phila., 50, Penna.
215- CH. 8-0232

CHANGE OF QTH

Contacted Doris, XYL of Lou, K3EKK, after printing the last issue and found that they were moving that Saturday and received their new QTH.

K3EKK/2, LOUIS GOETZ, XYL, DORIS
4 Penn Drive,
Riverside, New Jersey.

QTH OF DORIS AND LOUIS
4 PENN DRIVE
RIVERSIDE, N.J.

"PACK RATS CHEESE BITS"
829 W. FISHERS AVE.
PHILA. 41, PA.

MAY 2 1962



HELP GOODWILL INDUSTRIES
HELP THE HANDICAPPED



33KKK Ernest Kenas
2623 Old Welsh Rd.
Willow Grove, Pa.