

CROSSTALK

SEPTEMBER 1965

VOL. 7 NO. 9

THEY'LL DO IT EVERY TIME

By Jimmy Hatlo



GCARC

HAMFEST 1965

REPORT

Well JULY 25, 1965 is a date of the past now and a day that will no doubt carry memories of a fine time. A little warm but no rain anyway. HAMFEST 1965 STYLE will go down in the records as such. The next few lines carry some of the details and dissappointments that went in the making of GCARC's '65 HAMFEST.

OUR THANKS TO THE FOLLOWING ESTABLISHMENTS THAT DONATED PRIZES FOR THE HAMFEST

Gimbels
Bell Telephone Co.
Herb Kreckman
Hambuerger
Radio Electric (Phila.)
Electro Voice
American Radio Relay League
Sonotone Corp.
World Radio Labs.
E.Z. Way Products
Collins Radio Co.
International Instrument
L.T.V. University
J. Reisman & Son.
Hayden Book Co.
Tenn. Peper & Box Co.
Seco Electronics
Fair Radio Sales
Utah Electronic Co.
Heath Co.
Lafayette Radio
United Transformer
South Jersey Gas Co.
International Crystal
Barry Electronics Corp.
Olson Electronics
Phila. Wireless Institute

ATTENDANCE was better than last year. In all there were approx 320 individuals that came through the gate at CRYSTAL BIRCH LAKE to attend GCARC's big event of the year.

PRIZES were spread out among more of the attendees in the form of VTVM's, beams, etc. Not one big prize but a couple of hundred dollars worth of smaller ones.

FINANCIALLY we went in the hole for about \$35 which isn't too bad considering the difficulties encountered in planning such a large affair.

DISAPPOINTMENTS ranged from no air show to the fact that only 50% of the membership supported our HAMFEST by purchasing a ticket. The air show, due to an unfortunate set of circumstances beyond our control had to be canceled at the last minute. Fifty percent of the club members didn't even see fit to buy a ticket. Before hand you were informed that even if you weren't at the hamfest but had purchased a ticket you would be eligible for prizes. If this project had had the full support of the membership there wouldn't be a \$35 loss to the club.

THANK YOU

From GCARC, it's members and board to all who helped make the 1965 HAMFEST what it was!

1965 HAMFEST COMMITTEE

WA2NPD	K3WIL	W2PAX
WB2CKH	WA2LAZ	WB2GLH
WA2KWM	WA2TSD	WA2TSG
	WA2VEE	

CROSSTALK

is the official publication of the Gloucester County Amateur Radio Club Inc. The deadline for the submission of material for publication is the 20th of the month. Any material contained herein may be reproduced provided proper credit is given.

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PUBLISHER

Clif Brown WA2KGD

CIRCULATION

Sid Gantz WB2JRU

MEETING NOTICE

The regular monthly meeting of the Gloucester County Amateur Radio Club will be held on Wednesday September 1st in the Owens Illinois Club House in Glassboro New Jersey. Meeting time is 8PM.

WITH REGRET

We note the passing of Harry Densham K3EH formerly W2EH of Audubon. Although Harry was not a GCARC member he was well known in ham radio circles in this area. Harry was one of the founders of SJRA.

de K2JKA

Something new has been added to CROSSTALK as of this month. You can't help but notice it when you get to page 5. It has been decided by the board-of-directors that a limited amount of advertising in each issue of our paper will go a long way toward defraying the many expenses that we must carry during the year. Two pages per issue will make CROSSTALK self sustaining! The rates are so low that a full page per month costs less than a pack of cigarettes a day! There are two things that GCARC members can do to make this venture a success. Patronize our advertisers and keep your eyes open for someone who might be interested in helping fill our two pages each month! A telephone call or a letter to the ED will bring full particulars.

OUR THANKS TO ALMO RADIO'S MORRIS GREEN FOR THE EXCELLENT COOPERATION SHOWN GCARC IN CONNECTION WITH THE HAMFEST PRIZES.

Have you given any thought to who will run GCARC in 1966? Five officers and two directors will have to be elected in just a few short months.

A closing thought for September.... Committees of ten meet now and then but most work is done by committees of one!

LET'S TALK RTTY

The past year has seen quite an upswing in the interest shown for AMATEUR RADIO TELETYPE operation on both the low frequencies and on VHF. Seven GCARC members are known to be active to one degree or another in this mode of operation. (all capable of six meter operation; several also active on the low bands) To say the least it is very facinating and can be educational if you decide to build your own equipment.

WHAT TO EXPECT- Last winter there were very few RTTY less nights on six meters. In addition to club members there are at least 5 other New Jersey stations, 10 stations in the Philadelphia area and one or two in Delaware that can be heard and worked under normal conditions on 50 mcs. When the groundwave is better than normal several stations from Maryland and Virginia will usually be found around 50.5 on RTTY. The low frequencies, mainly

GCARC MEMBERS ON RTTY

WA2WWF W2APP
WB2JRU W2LVW
K2JKA K2PQD
W2CKX

80 and 20 meters offer quite a variety of stations that can easily be worked. Teletype contacts to Europe and Africa are common on 20; 80 meters, (in the winter when the QRN subsides) can offer many an interesting solid print contact with numerous W8, W9, and WØ stations in the mid-west. West coast RTTY stations can be QSOed when conditions on 80 are a little better than normal.

THE TELEPRINTER is the main piece of RTTY equipment; these are available from several sources at prices that are quite reasonable. The two models of machines found to be in constant demand by hams

The purpose of this article is to give an insight into the operation and equipment requirements to those not familiar with the Amateur Radio Teletype station. Who knows, maybe it will even spur more club members to get on RTTY!

are the model 26, which can be had for as little as \$25 and the model 15 which brings anwhere from \$50 on up.

THE TERMINAL UNIT serves the function of converting the signal taken from the receiver to DC pulses which operate the RTTY machine. There are two general catagories of TUs; the audio unit (which seems to be the most popular) connects to the audio output of the station receiver and the IF unit which is usually tied to the last IF stage of the receiver. There are units of both types available on the surplus market and commercially from a few manufacturers. The great majority of amateurs active on RTTY seem to have chosen to build their own TU. QST and CQ, from time to time have published construction articles on terminal units. The ARRL Handbook contains construction details on a simple but workable terminal unit in the Specialized Communications Systems section.

WHAT ELSE DO WE NEED? The normal mode of RTTY communication on the VHF bands utilizes audio frequency shift keying (AFSK) Audio tones of 2125 and 2975 cps are fed into the audio input of the AM transmitter. These tones are keyed by the keyboard in the teletype machine Thus for VHF RTTY we need a tone oscillator. Frequency shift keying (FSK) is the only mode permitted for RTTY communication below 50 mc.

(continued on page 6)

Centralab.

EICO

National
NC



ALMO RADIO COMPANY



5801 Rising Sun Ave.
Fidelity 2-3556

1200 Verona Ave., W.
W. Atlantic City, N. J.
Milton 6-1300

550 Markley St.
Nerristown, Pa.
Broadway 2-7580

7340 Frankford Ave.
Devonshire 2-2234

1133-37 Haddon Ave.
Camden, N. J.
Emerson 5-4524

317 Park Heights Ave.
Salisbury, Md.
Pioneer 2-1393

6205 Market St.
Granite 6-7052

201-203 Calhoun St.
Trenton, N. J.
Lyric 9-2522

1122 French St.
Wilmington, Del.
Olympia 6-9467



h hallicrafters

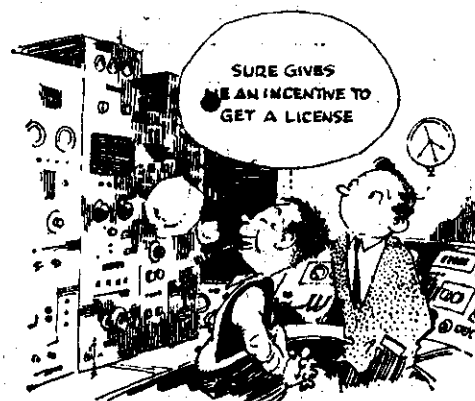
AMPHENOL

OHMITE

THE AMATEUR EXTRA CLASS LICENSE

We wonder just how many club members are giving any serious thought to trying for the EXTRA CLASS LICENSE? Let's face it, the handwriting is on the wall; part if not all of docket 15920 will no doubt be adopted. The EXTRA CLASS examination will never be easier than it is right now!

From a materialistic viewpoint, you will lose money if you don't get on the bandwagon. That beautiful all band transmitter will be useless to you on a great many frequencies. Give it some serious thought and study. It's really not out of your reach.



RENEW YOUR APRIL MEMBERSHIP THROUGH THE CLUB

LET'S TALK RTTY (from page 4)

The usual arrangement for FSK is a simple keying unit, consisting mainly of two diodes and a couple of resistors, that is connected to the VFO. This shifts the carrier frequency 850 cycles. The RTTY Handbook contains an abundance of do-it-yourself material on TU's, keyers and other associated equipment.

AFTER YOUR RTTY STATION IS OPERATIONAL there will no doubt be many refinements that you will want to add. In all probability tape equipment will be at the top of this list. This equipment, which is usually quite reasonable, makes use of a 3/4 inch paper tape; holes are punched in this tape by the tape perforator (a different sequence for each letter) When this tape is fed into the tape-distributor the content is sent at sixty words per minute. Equipment line ups, CQ's, etc. are often put on tape. Some RTTY stations are equipped to make tape while receiving a transmission, thus when it is time to reply a complete tape at 60 WPM is sent.

KILOCYCLE CHATTER

We see where a GCARC member had a little trouble while on the job. The WOODBURY TIMES sez that Van W2KE filed charges against some individuals that gave him a hard time. They were customers at that! You see, the normal warm relationship between business man and customer usually don't exist in Vans business....he delivers summonses for the county court.

The first and last contacts made by WA2NGI/aero-mobile were with stations at Lake Garrison. The first on July 20th was W2LVW/2 and the last on July 24 was W2RJQ/2.

RADIO AMATEURS SAVE WOMAN
(from the AP Wire Service)

LOURENCO MARQUES, Mozambique (AP) Radio Amateurs of four continents joined to save the life of a sick woman in Quelimane, Mozambique. The woman needed a medicine which could only be obtained in Australia. A Laurence Marques amateur picked up the SOS from Quelimane. CR7GF then relayed the message to VE7PH in Vancouver British Columbia. This station then contacted VK2XT in Australia, who in turn relayed it to VK2XO, an amateur station in the area where the medicine could be found.

One coed to the other, "Do you have a date for the Labor Day weekend riot?"

A POSSIBILITY?..?..?

Wonder if Owen Garriett W5LFL, one of the newly selected astronauts, might be able to take a two meter rig along with him?

W E L C O M E

GCARC welcomes two new members this month:

Ralph Johnson WB2QJU

Tony Bukenas WA2WQA

FRIDAY EVENING AREC NETS RESUME
on September 10th.

Phone.....50.9 mc. at 8:00 PM
RTTY.....50.8 mc. at 7:00 PM
W2LVW SEC/EC

THE OSCILLOSCOPE

"THE HAM'S BEST FRIEND"

MODULATION PERCENTAGE MONITORING is a must for the ham station. Besides being required by FCC regulations it assures us that we are getting the most out of our AM transmitter. A signal that is undermodulated lacks the punch necessary to get through the QRM and on the other side of the ledger, overmodulation causes distortion which will also make the phone signal difficult to read. It is evident that our objective should be to maintain a level of modulation as close to 100% as possible without exceeding this limit. No matter how many gadgets (clippers limiters, etc.) that we employ to do this we still must have a means of knowing when they are adjusted for maximum effectiveness.

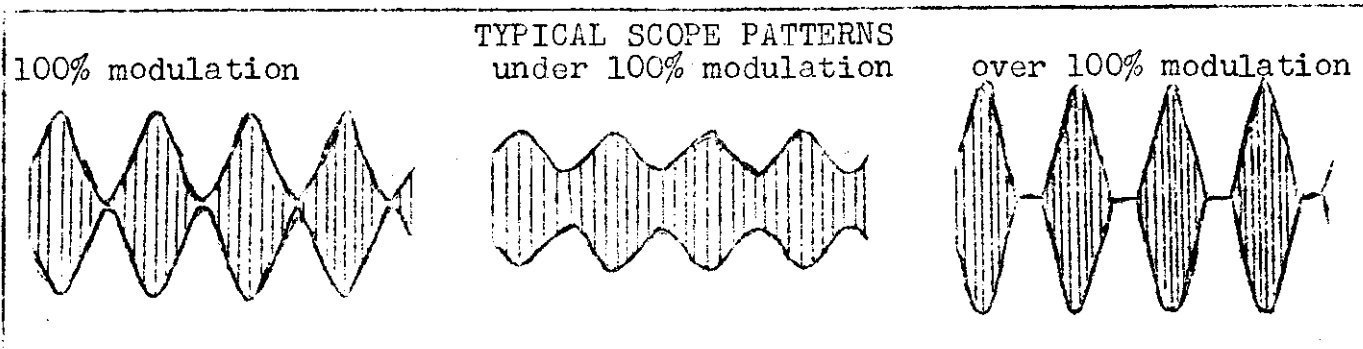
LOOKING AT OUR OWN SIGNAL on the scope is pur first objective. The simplest way of doing this is to feed RF to the vertical plates of the scope, and apply a horizontal sweep voltage of 30 to 100 cps to the input of the horizontal amplifier. Take note that the RF signal must be applied to the vertical plates not to the input of the vertical amplifier. (The frequency response of the vertical amplifier in most scopes is such that it will not pass a signal of the frequency we are dealing with.) A two or three turn

Upon visiting a great many ham shacks, one will often find a perfectly good scope just laying around gathering dust. Just a little time and effort (no parts to buy) will put this very valuable piece of test equipment to good use.

link placed near the transmitter tank coil and connected to the scope with a short length of coax will usually provide a sufficient amount of RF for this purpose. The sweep generator in the scope will supply the horizontal sweep voltage.

LOOKING AT THE OTHER GUY'S SIGNAL is almost as simple a task to arrange. The input to the vertical amplifier should be connected to the plate of the last IF stage in the receiver through a very small value coupling capacitor. (5 to 20 mmfd) Shielded cable should be used between the scope and the receiver to avoid hum pickup. Horizontal deflection as described above should be utilized.

OTHER USES OF THE SCOPE in the hamshack include the alignment of SSB transmitters for maximum sideband and carrier suppression, for comparing two audio frequency signals and as a tuning indicator for radio teletype reception. The ARRL handbook explains these and many other uses for the OSCILLOSCOPE in the ham shack.



LOOKING BACK

THROUGH PAST
ISSUES OF
-CROSSTALK-

FROM THE FEBRUARY 1964 ISSUE----INTEREST, HARD WORK, AND DX ON FORTY

It was too late for 20, and too early for 40, so the old timer and the young squirt sat glumly in the shack listening to the static crashes from A.C.E.'s power lines. Suddenly the young squirt came up with a conversation opener. "You know" he said, "there's a gang in the club that seems to be in the thick of everything, there's Sam, Joe, and 'you-know-who', and it's always the same ones. Seems like they got a clique." The old timer thought a bit, tamped his pipe, and cleared his throat. "Well you're right in a way, but I can remember when each of them joined the club. Take Sam for example, he's always been in the thick of things; first worked in refreshments, then the house committee. I remember when he put in 24 hours to keep the 20 meter field day rig going. I guess all your clique are just hard workers."

"Well", said the young squirt, "you work hard too". The old timer grinned a bit, "Yes" he said, "and I like to think I am one of the gang too." You see", he continued, "every person that you mentioned has one thing in common, a strong interest in the club's welfare and a reputation for hard work." He puffed slowly on his pipe, then did a little figuring. "Counting three men to a committee" he exclaimed, "there are 63 jobs in the club, one for almost every member, but most of them are carried by the gang."

The young squirt thought for a moment, "Doesn't seem fair" he said. "No" said the old timer, "Doesn't, does it?" He settled into his working position, "Listen I think I hear a VP8 in there"...and sure enough it was!

The above article was dubbed anonymous when printed in '64. It's a fine piece of workmanship written for CROSSTALK by the 1964 president Paul Walton W2YNR. Even though it is a year later it still applies!

FROM THE JUNE 1963 ISSUE----ARE YOU A KXY PERSON?

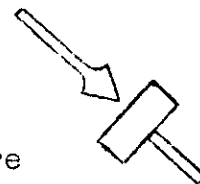
Xvxn though my typxwritxr is an old modxl it works quitx wxll xxcpt for onx of thx kxys. I wishxd many timxs that it workxd prfxctly. It is trux that thxrx arx forty onx kxys that function wxll enough, but just onx not working makxs thx diffxrxncx.

Somxtimxs it sxxms to mx that our organization is somxthing likx my typxwritxr, not all thx pxoplx arx working prppxrlly.

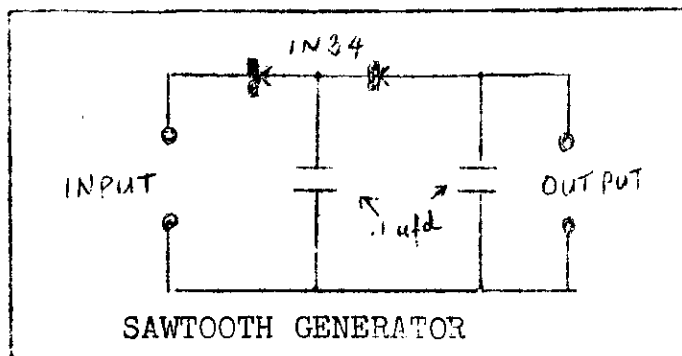
You may say to yoursxlf, "Wxll I am only onx pxrson, I won't makx or brxak a program." But it doxs makx a diffxrxncx bxcasx any program to bx xffctivx nxxds thx activx participation of xvxy mxm-bxr. So thx nxxt timx that you think you arx only onx pxrson, and that your xfforts arx not nxxdxd rxmmbxr my typxwritxr and say to yoursxlf, "I am a kxy pxrson in our organization and I am nxxdxd vxry much."

The above article was dubbed anonymous when printed in '63. It was still anonymous in December '64 when it was reprinted. In September '65 the author still remains unknown!

CRYSTAL DIODES



The germanium diode is a very versatile component. There are no doubt thousands of different uses to which they can be put. Described here are two gadgets that surely will find use in the average ham shack at one time or another.

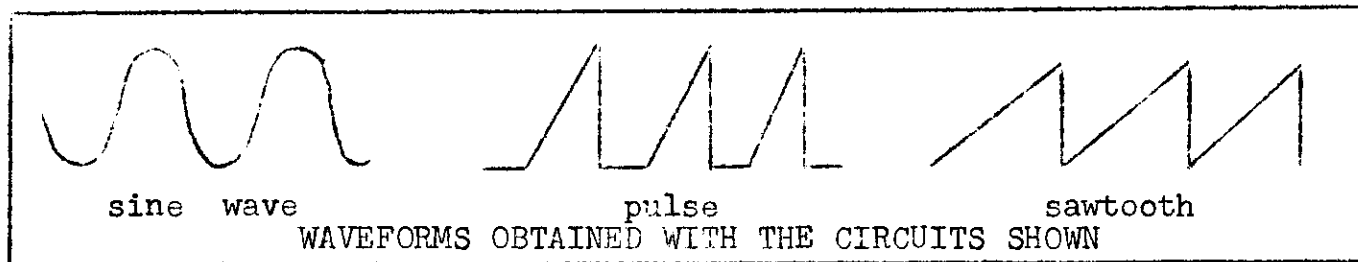
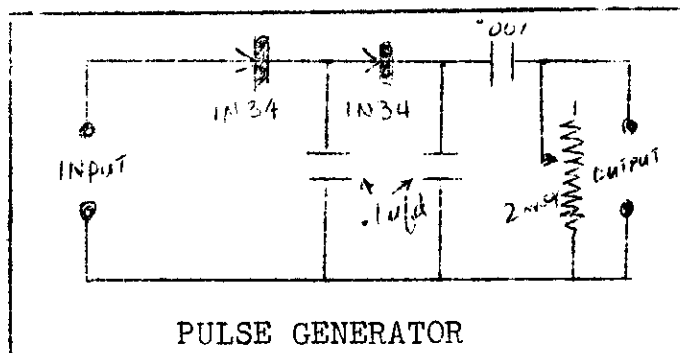


SAWTOOTH GENERATOR

The circuit shown here converts a sine wave input into a sawtooth wave. At 10 volts r.m.s. the sawtooth waveform is linear enough for use as an oscilloscope sweep up to 50 kc. With the diode polarity shown positive going sawteeth are obtained. If the polarity of both diodes are reversed negative-going sawteeth are obtained.

PULSE GENERATOR

A variation of the circuit of the sawtooth generator will produce a sharp pulse generator. This circuit resembles that of a low pass R-C filter in which the diodes take the place of the usual resistors. The pulse repetition rate is equal to the frequency of the applied sine wave. The circuit may be used throughout the audio spectrum with the values of capacitors shown. At radio frequencies, smaller capacitors and shielding between components will be required. The 2 megohm resistor should be adjusted to give the best pulse shapes viewed on a wide band scope. Negative pulses can be obtained by reversing the polarity of both diodes.



SIX METER AREC FREQUENCY 50.9 MC.
MONITOR IT!

FROM THE LOG OF

WA2NGI/AM related by WA2TSD
K2JKA

Thursday, July 22 - AIRBOURNE WITH COEK WA2TSD - the altimeter in the cockpit of the aircoupe read 2,500 feet as the small plane droned westward over Jefferson, New Jersey. Behind the pilot, Don Reed, and his ham passenger, on a small shelf, sat a Gonset III complete with mike and earphones. Outside the compartment, between the cockpit and tail was stretched a 6 meter dipole. Under the pilot's legs sat a 12 volt auto-type battery for power supply.

I leaned back and reached over my left shoulder to adjust the equipment. After a brief scan over the band, I pressed the button on the mike--CQ 6, CQ 6, this is WA2NGI/AREO Mobile 2. As I released the button, a babble of voices boomed out of the earphones. What a surprise! I knew it must be pretty terrific that high up; but I was really amazed at the signal strengths. Recognizing a familiar call, I contacted him and gave my spiel on our approaching Hamfest. Then I identified myself with my own call which really shook him up.

Other strong signals rattled the earphones...I continued the propaganda on the Hamfest. Several club members checked in with F.B. signals. Jim, W2LVW; Bob, WA2WWF..were in there to boost my morale.

I'm still not sure how I got up there; but, as I was attending a Hamfest committee meeting at Doug's last night, July 21, a land line came in for a high-flying ham to go up the next night. Somehow everyone present had legitimate excuses, and, not being a very fast thinker myself, found that I was "it."

I have been up before in small craft back around 1946 in the Army and, more recently, in jets; but I still had a few butterflies as to what to expect. I arrived at Pitman Airport approximately a half hour early and enjoyed watching the planes taking off, landing, etc.

Don, the pilot, arrived; and we stowed the radio and other gear into the small cockpit. This particular aircraft contains two bucket seats, side by side, approximately six inches apart. The instrument panel is approximately 18 inches in front of you; and your legs stretch out under the panel. It's small, but comfortable. Don said he was having some difficulty with his brakes; but I didn't think too much about it till we landed!

The takeoff was beautiful, but a little too long to suit me. It seemed like we were going to take a few treetops with us. As we were attempting to clear them, I couldn't help but think of the additional weight we were carrying.

Once in the air, I was busy with the contacts, log, and adjustment to notice too much of the view. Although during the last ten minutes of our hour and a half trip, I removed the earphones (which, by the way, were very warm due to their foam padding) and enjoyed the view and NOISE! I must have looked a little peaked

(continued on page 12)

OUR SCM SEZ

Any ARRL member in the Southern New Jersey Section who has read QST may have run across the election results on page 92 of the August issue that shows WB2PHV as the new SCM in this section. I have already had several questions from ARRL members as to how this apparent horn woggle came about; particularly since no ballots were received. Therefore an explanation seems to be in order. Many months ago I became interested in the SCM post and decided to go after it. Being a new comer to SNJ I figured that the chances of election on the first try would be slim but it would at least be a start with a future election in mind. When the call for nominating petitions was made by ARRL, I immediately obtained the required signatures and forwarded the petition. The nominations closed on June 10th and to my surprise I was the only one to be nominated. In July I was notified by ARRL that since I was the sole nominee that no ballot would be necessary and therefore I was elected with my term to start on August 26.

There is no question that I am relatively unknown around the section so let me fill anyone interested in on a little of my background. I was first licensed in 1946 as WIOSF. In the late 40's I left New England and spent the next six years in the merchant marine as a radio op. I operated for several years from the Mediterranean, South China Sea and the Pacific as WIOSF/MM. After settling down to shore life and raising a family I obtained employment with the CAA (now FAA) and wound up in Oklahoma with the call of W5EUL. While in Oklahoma I was the editor of the "COLLECTOR AND EMITTER", club paper of the Aeronautical Center ARC for three years

Hank Harkinson WB2PHV 2309 Raymond Drive Northfield, N.J. 08225

and later was also president of the same club, which incidently is the largest active club in the South West and 100% ARRL. I recall that we had a swap arrangement with SJRA on club papers and that I used to read their sweepstakes scores with envy. During that time I was also EC for Oklahoma County, ORS and BFL and active in all contests. In a fit of writing energy I wrote six articles for publication, three of which were published in 73 MAGAZINE and three others in a technical magazine. I am still with the FAA at NAFES in Atlantic City as an Electronics Engineer. In addition to the SCM post I am president of the Southern Counties Amateur Radio Assn, the EC in Atlantic County and organizer and president of the Experimental Center ARC.

My main concern at this time is to obtain the cooperation of all the ARRL members in SNJ. I promise that anyone requesting information of me will receive a prompt answer, and that all nets, phone, cw RTTY or whatever will receive any support that I am able to render. I have already had a long discussion with Ed Erickson W2CVW the SCM in NNJ on cooperation between the sections.

I have appointed Ed Raser W2ZI of Trenton to the post of Asst. SCM, and Jim Peck W2LVW as the SEC in this section. I hope I will be invited to visit each and every club in the section and meet as many of you as possible. Meanwhile any suggestions or comments? Shoot them along. (GCARC'S door is always open ED)

to Don, as he asked me how I felt. I replied that I have felt better. I was feeling uneasy and warm at that time and was glad we were due to land. (Mental reactions to hostile environment.. Dr. Jekell And Mr. Hyde, Chapter 4)

Don asked me to look around and check for any planes in the vicinity of the airport, so as not to set down on top of any. I can see where this would be possible, as an aircraft between ours and the ground could blend right in with the terrain. When Don shoved the throttle in to slow down for our landing, it seemed like we stopped in mid-air, the silence was un-nerving. We were still doing 80 mph, but the drop from 110 mph really made a difference. Gee, what a strange feeling! Don made a beautiful landing on a very rough airstrip. Pitman Airport isn't much more than a cow pasture, but they do keep the grass down. Best of all, our brakes worked o.k.

I experienced a closure in both ears on descent, and this stayed with me for approximately one hour. I couldn't hear a doggone thing. I couldn't believe my speedometer as I drove away, as I couldn't hear my engine running. (Cork was bailed out of the County Jail later...charges: 110 mph through Pitman) Several times I had to bring my speed down as I had a tendency to overdo it.

I enjoy mobile operation in the car, but have been disappointed at times with the results. Now, I'm downright disgusted with it after that aero-mobile jaunt. See what happens when you get a taste of something better than you've been used to..it spoils the heck out of you.

Saturday, July 24, 7:30 AM-AIRBOURNE WITH K2JKA-"too miserable to go flying" but an ideal Saturday morning to cut more Z's! After some deliberation (and several cups of coffee), we decide to get off to the airport and let the pilot make the decisions. We arrive at the space port at 9:15..Don's(the pilot) VW is in the parking lot, but the ship is gone..guess he's testing the clouds. After a 10 minute wait, the space capsule drops from the sky to the runway. "Surely he won't want to go in this fog, clouds, or what have you" (later we learned the pilot's lingo for it is SOUP). "All set," he yells! ...ye-hon-ed is briefed that we will have to fly below 1000 feet and have a choice of going down the shore or following the turnpike up to North Jersey.

NJTPK here we come! Up we go to 1000 feet and start north on the turnpike..a CQ brings back WA2KWM(what nerve! He didn't think we would go). Thus far, visibility isn't too bad...glad we're 900 feet above the turnpike for a change instead of being in all that traffic. We chat with one of the natives in the jungle below and describe what we see...the huge AF radar dome at Moorestown (learned that the natives call it the Eisenhower Golf Ball), past Exits 5, 6, and 7, we go at better than 100 mph (didn't see a trooper all the way). Chat with Ben K2CON in Trenton, our long-lost buddy...visibility getting worse...well, really it's zero now...the altimeter says 800 feet and we can just barely make out the road below..the skipper says we are going to turn around..so, back we come. Goshes, the turnpike is still there as the SOUP clears up...THE SUN ALWAYS SHINES OVER SOUTH JERSEY...at least it seems that way...the farther south we flew the better the WX got
(continued on page 13)

FROM THE LOG OF WA2NGI/AM
(continued from page 12)

...till finally when we got over Cherry Hill, we were able to fly at 1500 feet and still stay out of the clouds..We circle once over the Route 295/TPK Exit 4 complex..guess Don spotted a sun bather(or something)..darn if I see anything but crazy motorists in the usual weekend rat race to the shore. There's Runnemedede...Woodbury.. and finally as we contact W2RJQ and invite him to our Hamfest, the Pitman Airport looms up ahead. We circle around once and say 73 to the gang, then touch down on the washboard runway(that's the roughest part of the whole flight). On the ground, we unload the gear and take the antenna off the plane. It was such great sport that we're sorry to be dismantling WA2NGI/AM for another year.

A personal thanks to Pilot Don Reed for the really enjoyable two days that K2JKA operated from the sky and a thanks on behalf of GCARC for his help in making our Hamfest successful!

SCIENTISTS TRACK ASTEROID

Scientists around the world have been closely following the path of the asteroid Icarus which is on a collision course with the earth. Icarus is expected to crash on the earth in three years and is being tracked for the purpose of plotting it's probable point of impact. Icarus has a diameter of about one half mile and could destroy an area the size of New York City. Knowledge of the exact point of impact is essential because it may be necessary to evacuate an inhabited area to avoid a catastrophe. Asteroids are pieces of rock, the largest about 2 miles in diameter, that orbit the sun in erratic orbital paths between the earth and mars.

NEW GADGETS

ELECTRO-VOICE INC. is manufacturing a hand held P-T-T mike with a built in transistorized voice-clipper circuit. The two transistor circuit is powered by a mercury battery. Price is about \$25. See Popular Science Magazine August 65, page 101.

KILOCYCLE CHATTER

Dick K2GMY merged with one of the fairer sex on August 7th in Ogdensburg New York. Sylvia, his new XYL, is very tolerant of ham radio and it is expected that Dick; who is formerly from Woodbury, will be back on the air soon. They plan to make their home in Beverly.

Bill, WB2NNB went home with most of a trailer load of goodies that he brought to the hamfest to sell. These could be a goldmine for anyone interested in building a high-powered rig. They consist of many high voltage transformers and chokes among other things. They are still available.

The Gloucester County AREC provided communications for the water carnival at Lake Garrison on August 7th.

Anyone who worked WA2NGI/aero mobile and wants a QSL, send one to the club secretary W2AFZ.

Watch the November CROSSTALK for a spectacular supplement complete with pictures of the happenings during '65. We would like to run an antenna special in October if we can get enough material from members on antenna construction articles, theory, etc. How about it gang?

DID YOU KNOW....that the POLAROID CORP. has come out with a black and white camera for about \$20? WHAT A BUY!

LETTER TO THE EDITOR

FOR SALE

August 5, 1965

Dear Jack:

What is so special about Vol. 7, No. 7? The July issue that I received was labeled Vol. 7 No. 7 and now along comes the August issue also labeled Vol. 7 No. 7!

Perhaps I wouldn't have noticed it so much but along comes my copy of HELLGATE STATIC from Missoula, Montana and Jack Syver-son, W7GBH, the editor labeled July Vol. 7 No. 7 and then a- long comes his August issue lab- eled Vol. 7 No. 7!

Dog days get you guys or is it that Editors as well as the boys who shake the ivories have a predilection for No. 7. HE!!!

Thanks a million for a fine paper, I wouldn't miss a word of it, including the Vol. and No. The best of everything to the club and it's fine members. A bright new brand of 73 to each and everyone.

Sincerely

Al W4ID

Well Al, we could say that we were just trying to keep the boys on their toes by pulling the No.7 bit but that would be a little less than the truth. Really we muffed! When I get on this type- writer goodness knows what the result will be! hi.. Just ten min- utes before receiving this letter we mailed the front page of this issue out to have a stencil cut for the cartoon and now you have me worried that this one will come out Vol. 7 No. 8! TIME WILL TELL!..! ED

Knight Kit T-60 with Novice xtals
Lafayette HE-86
Lafayette HE-100
Heathkit twoor with mobile supply

All of the gear listed may be seen and operated at the shack of WB2PGE

Chuck Capasso

don't forget to

SAY YOU SAW IT IN CROSSTALK

even if you didn't

WANTED

Articles for the October issue of CROSSTALK. See page three this issue for the address of the editor!

LITTLE KNOWN FACTS ABOUT YOU!

Did you know that....

The body of the average sized male contains 10 pints of blood?

Nearly 1½ million persons are hospital patients on any given day?

The average person breathes about 20,000 times each day?

A baby is born every 7½ seconds in the U.S.?

Americans last year con- sumed 44 million asprin tablets daily?

ARRL MEMBERSHIP DUE TO EXPIRE SOON?
IF SO WHY NOT RENEW IT THROUGH THE CLUB
YOU SAVE A STAMP....CASCADIA MAKES 50¢

AN INTERVIEW WITH WB2RVE

Bob Spain WB2RVE, of Turnerville was born on August 8, 1950 and is a native of Turnerville.

Bob's father is an ex-ham and this is where Bob initially got the ham radio bug. He started out as an SWL, then enrolled in the club code and theory class this past year. In March of this year he got his Technician License.

Bob runs an HE-45-B into a three element telerelex beam and on two meters uses a homebrew 2E26 transceiver with an eleven element beam. He has worked eight states with four confirmed. He has worked eleven club members and is looking for four more for the club certificate.

Bob is a student at Washington Township High School and plans on a career in music. At present he is a sax player in the High School Band.

Bob is an ARRL member and joined GCARC in 1965. He was on the swap-shoppe committee for the club hamfest this year.

He is usually on six or two meters about 8:30 to 9:30 PM during the week and on Saturday afternoons and Sunday evenings.

WANTED

INSTRUCTOR(S) for the GCARC code and theory classes scheduled to begin in early October. Are you in a position to lend a hand? If so see the prez. If we have no takers there seems to be no alternative but to scrap the project!

CERTIFICATE RULES CHANGES

Club members residing outside the Southern New Jersey Section need only 10 contacts for the GCARC certificate. The rules were ammended at the Aug. board meeting.

KILOCYCLE CHATTER

K2PQD is the proud owner of a new model 15 RTTY machine.

K2JKA and W2LVW were the only brave souls to take a dip in the lake after the August board meeting!

W2CKX is back after his trip around the country. His car was stolen in Cheyenne Wyoming!

Chet WB2EDH is leaving for Louisiana shortly. He will attend school there.

COMING HAMFEST

September 12, 1965
S.J.R.A.
at Mollia Farms in
Malaga, New Jersey

THIS
SPACE
IS
RESERVED
FOR
YOUR
CONTRIBUTION
TO
THIS
MONTHS

CROSTALK

but
W E D I G I H
E I E T O
D T W
N C
T O
M
E

QSL CARDS ARE AVAILABLE TO CLUB MEMBERS THROUGH GCARC FOR A NOMINAL FEE!! COMPLETE WITH CLUB EMBLUM & PROPAGANDA!