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# DVRA NEWS

VOL XXI

JANUARY 1955

NO. 1

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Vice President  
Secretary  
Treasurer

Donald G. Field, W2UAE  
A.G. Wentzel, W2HX  
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Refreshments

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Richard Henrie, W2UPS  
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## STANDING COMMITTEES

Old Timer's Nite  
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Edward G. Raser, W2ZI  
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Richard Amrich, W3WUY  
Robert Bate, K2CLD  
Richard Henrie, W2UPS

Published on the second Wednesday of each month by the Delaware Valley Radio Association, Incorporated, Trenton, New Jersey.

Club meetings are held on the second Wednesday of each month at 8:00 P.M. in the Chamber of Commerce rooms, Hotel Stacy Trent.

# DYRA NEWS

## OFFICIAL BULLETINS

NR. 474 You are cordially invited to take part in the Fourth ARRL Novice Roundup January 8 through 23. The contest is open to all radio amateurs in the 73 ARRL sections with a certificate to be presented to the highest scoring Novice in each section. Complete rules appear on page 51 of December QST. Send a postal or radiogram to ARRL Headquarters giving the call of the station from which you copied this message and you will receive without charge convenient Novice Roundup reporting forms.

NR. 475 Amateurs are reminded that papers for the new extended written examination for General, Conditional and Technician Class Licenses are soon to be used by FCC field offices. The basic data appear in December QST and sample questions covering the added formulas, diagrams and various technical matters appear in the new Thirty Third edition of the ARRL License Manual.

NR. 476 The Eighth ARRL VHF Sweepstakes will be held January 8 and 9. Similar to the annual November ARRL Sweepstakes, this contest will be open only to stations operating on or above 50 Mc. All amateurs in the field organization territory of the League are invited to participate. Certificate awards will be given to the leading entrant in each ARRL section and to leading operators of clubs where three or more submissions are made. A club gavel will be awarded to the club with the top aggregate score. In addition, an award will go to the top Novice or Technician in each section where at least three such licensees submit valid contest logs. Convenient forms for reporting VHF SS contacts will be furnished upon request. Complete details will appear in January QST.

NR. 476 International regulations forbid amateur stations to be used for transmitting international communications on behalf of third parties, except where special arrangements have been made between nations. US amateurs may handle such messages without compensation with Canada, Chile and Peru, provided they are of the character that would not normally be sent by any existing means of electrical communication or except for the availability of the amateur stations. Under this same provision, Ecuador, Liberia and Cuba permit such third party traffic and in emergencies permit messages relating directly to safety of life or property. Traffic may be freely handled with outlying US possessions where amateurs are licensed by FCC, as well as with the Canal Zone. Message traffic for US military personnel overseas is permitted only with amateur stations identified by properly authorized call signs having a one or two letter prefix beginning with W or K.

NR. 477 All amateurs are cordially invited to take part in the twenty first ARRL International DX Competition. Phone contest periods will be February and March 11 to 13 while C. competition is scheduled for February and March 25 to 27. New contest rules require US and Canadian amateurs to transmit and exchange consisting of the signal report plus their state or province. Foreign amateurs will continue to transmit the report and power factor. The modified W and VE exchange will be of special interest to overseas stations aiming to fill in states for WAS and provinces for WAVE. Convenient reporting sheets continue to be available upon request. Complete ARRL DX Competition rules appear in January QST.

## DVRA NEWS

NR. 478 February presents an excellent opportunity for any amateur to test his frequency measuring skills by participating in an ARRL Frequency Measuring Test. Signals for measurement will be transmitted from W1AA at 2130 EST February 8 on approximately 3711, 7114 and 14,197 kc. A second series of test signals will be transmitted at 0030 EST February 9 on approximately 3627, 7007 and 14,056 kc. Participants will receive individual reports comparing the accuracy of their measurements with those of a professional frequency measuring laboratory. Further FMT details appear in February QST.

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Yes, we know that two of those bulletins have the same number. That's the way the cards are printed. Some of the gang at Headquarters must have been sort of rushed getting ready for the holidays.

UAE has finally gotten that big rig on and is quite pleased with the #29 signal. Can't get a 400 watt rig much cheaper than that. The D-104 mike was an Xmas present a year ago so it sure took a long time to get the big heap going.

Don't forget to help your DVRA NFWS editor out by sending him some news about yourself or your fellow hams.

It is a good idea to keep in contact with the club and to make sure you read in the NFWS the activity which is scheduled for the next meeting. Entertainment committee has scheduled some interesting activities for each meeting. If you have missed the activities in the past it is your loss.

Got a letter from our old pal FDE down in the big state of Texas and Sid is doing OK, although he doesn't seem to like his job much. He says that being a radar fire control computer mechanic is "for the birds". His address is Pvt. Sidney L. Deitz, RA 11278921, Btry A 90th AAA Bn., Fort Bliss, Texas.

W2UAE

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### SELL AND SWAP

For Sale- Link Radio Transmitter Model 10UBX, mobile 10 meter transmitter, Xtal controlled with 807 final. AM modulation. Complete with dynamotor, control box and handset. Can be demonstrated in car now. Handbook and circuit diagram included.

R. DeVos, W2TAM  
140 Summit Ave.  
West Trenton, N.J.

Ed Raser, W2ZI, can make available to interested hams a number of surplus Army B batteries, for experimental or CD work. They are rated at 105 volts and are in odd size cases.

Call W2ZI at EX3-4809 at night or at EX3-1561 during the day.

Wanted- Old copies of the ARRL Handbook, 1944, 1938, 1931, 1928, 1926 and down. Will pay for rare ones. Contact W1 AFN or Bill Virgin, W2JWA.



Lester H. Allen, W2CCO, 704 Quinton Ave., Trenton, New Jersey  
William F. Petty, W2HAZ, 777 Chambers St., Trenton  
Edward G. Raser, W2ZI, 315 Beechwood Ave., Trenton

Members of the Judging Committee may participate in the contest, but will not be eligible for prizes.

DISQUALIFICATION: Failure to comply with contest rules and/or FCC regulations will result in disqualification. The Judging Committee will review all cases and their decision will be final.

MISCELLANEOUS: Contest entrants who are not members of the DVRA are not obligated in any way to the club.

All entrants should send a note to the Editor of the DVRA NEWS, William P. Virgin, W2JWA, 48 Prospect St., Trenton, by the first of each month, stating the number of states worked and verified to date. This will enable the editor to compile a box score for publication in the NEWS monthly.

\* \* \* \* \*

### PRIZES

<u>Prize</u>	<u>Donor</u>
Amateur First Prize: Astatic D-104 Microphone or Speed-X Automatic Key 100 QSL cards One 807 tube Soldering Pencil Roll Scotch Electrical Tape Roll Hookup Wire	Les Allen, W2CCO Bill Petty, W2HAZ Charlie Rebman Les Allen, W2CCO Bill Griffith, W2EGE Les Allen, W2CCO
Amateur Second Prize: Telechron Electric Clock 100 QSL cards One 807 tube Soldering Pencil Roll Scotch Electrical Tape Roll Hookup Wire	Bill Griffith, W2EGE Bill Petty, W2HAZ Charlie Rebman Les Allen, W2CCO Bill Griffith, W2EGE Les Allen, W2CCO
Amateur Third Prize: Pair 866 rectifiers Soldering pencil Roll Scotch Electrical Tape Roll Hookup Wire	Dave Van Nest Les Allen, W2CCO Bill Griffith, W2EGE Les Allen, W2CCO
SWL First Prize: ARRL Handbook Roll Scotch Electrical Tape Roll Hookup Wire	Les Allen, W2CCO Bill Griffith, W2EGE Les Allen, W2CCO
SWL Second Prize: ARRL License Manual and How to Become a Radio Amateur Roll Scotch Electrical Tape Roll Hookup Wire	Les Allen, W2CCO Bill Griffith, W2EGE Les Allen, W2CCO

The five winners will also be given a free ticket to the DVRA Annual Pie and Corn Roast, when the prizes will be awarded.

# DVRA WAS CONTEST

## CONTEST RULES

TIME: Starting time 0001, January 1, 1955  
Ending time 2400, June 30, 1955

FREQUENCIES AND EMISSION: Any or all of the authorized amateur bands may be used. Any or all types of emission authorized by FCC regulations may be used or combinations of same.

ELIGIBILITY: All members of the Delaware Valley Radio Association are eligible, regardless of where they reside.

Any other licensed amateur residing in Trenton, New Jersey, or within a ten mile radius of Trenton is also eligible. Judging Committee will decide "borderline" cases.

Mobile stations may enter the contest, or combinations of mobile and fixed station, provided that no qualifying contacts take place while a mobile unit is further than ten miles from Trenton.

VERIFICATION OF CONTACTS: Winners will be selected on states confirmed by QSL or letter verification of contact. Contest entrants will be given until July 15th to receive delinquent QSL cards from contacts. All qualifying QSL cards and check sheets must be turned in to a member of the judging committee by July 20, 1955. NO QUALIFYING QSL WILL BE ACCEPTED BEARING A POSTMARK LATER THAN JULY 15, 1955.

For your convenience and to aid the judging committee, WAS Check Sheets are available free at Allen and Hurley, 23 S. Warren St., Trenton. These check sheets must accompany all entries.

AWARDS: Prizes will be awarded to the three amateurs completing the working of all states. Dates of contacts will determine the first, second and third prize winners.

There will also be first and second prizes for Short Wave Listeners under the same above rules, except verification of states by reception only.

In the case that entrants in either group do not contact and verify the entire 48 states, prizes will go in order of most states verified.

Prizes will be awarded in August at the Annual DVRA Doggie and Corn Roast. The five winners will be given free tickets to the affair. In the event this affair is not held, the prizes will be awarded at the regular monthly club meeting in September.

# DYRA NEWS

## GAS BUGGY FUMES

Although it will be well after the first of the year by the time this is printed I would like to take this opportunity to wish all the readers a very happy and prosperous New Year with lots of DX and short skip. There has been a slight increase in activity on ten meters locally and we sure hope that it increases even more in the future. Just like all the rest of the mobile and fixed stations on ten I have been hoping that the bend would open up soon, but it looks like we'll still have to mark time for a while yet.

For any of the boys who would like to goin the roundtable on ten in the afternoons you will usually find Walt, W2GYW, Bob, W2IIA, and Chick, W2RYB on between four and five pm. Occasionally Steve, W2QJO and myself break in to add our two cents worth. Couple of days after Christmas QJO and myself worked W3SAE/2 on the Jersey Turnpike from about Hightstown to five miles or so below Bordentown and were able to give Ed, W3SAF, some directions as to getting on the Pennsey Turnpike.

Hear K2ART/M and his almost 100% ham family on occasionally. Had a nice QSO with Bob, W2VQB, and Mac, W2LYV, both mobile. Also tied in with Al, W3BIA mobile one Sunday on his way through Trenton. Al was headed for Philly where he lives and we worked a QSO until he was down near the Pennypack circle. Al confirmed something that JAG told us. Down in Texas the majority of mobiles work 75 meters and there is much activity in the way of nets, roundtables and hidden transmitter hunts. Al had just returned from a motoring trip down that way. Have worked John, K2GWL, on ten also. John's QTH is in Columbus, N.J. W2IIA informs me that he worked W2OQS of Riverside on two meters. W2OQS was mobile at the time and I believe that he has QSO'd him on ten also with the new co-axial antenna. FB Bob.

73,  
W2UPS

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## VHF NEWS

The activity on the 2 meter band during most of December was generally on the low side. However the Mercer Emergency Net is again in full swing and on the evening of December 12th we had something like sixteen stations that called in. All 2 meter stations are welcome and to anyone who is in interested, we suggest you get a crystal for 147.150 kc and join the rest of the boys.

There is now also a traffic net operating on the band and this was started by W3VVV, W3WQL, and K2WAU at Fort Dix. The boys are doing a good job of moving traffic in and out of Fort Dix via 2 meters and 75 fone. At the present time the stations are scattered about the band but we rather expect that in the future they will settle on one frequency.

Our old friend Fred, W3VWX, has pulled up stakes and is now in S Sarasota, Florida for three months. He expects to be back in March and will then resume his duties as "watchdog" of the 2 meter band.

It is expected that in the near future the M.E.N. will operate the net control from the new Mercer County Disaster Control Center at Mercer Airport. The county has established quite an elaborate center and any who have not seen it would do well to look it over at the first opportunity.

W2IIA

# DVRA NEWS

## YOUR INTEREST IN THE CLUB

A club is known only by what its members do collectively. If a club is active, it is active because its members are active. If its members show no interest in club activities and meetings there is no club. Often times most members hesitate to offer their assistance because it's the old story of let the other fellow do it, he is always volunteering. But that is the wrong attitude. Just think what could be accomplished if each club member would do as much as the guy who always volunteers. There will always be something that you can help out on if you will step forward.

Where would our shack be if no one had done any work? We have an exceptionally nice shack because we have some members who work hard and are glad to do it. Their satisfaction is before them in the nice layout that we have. They made it what it is today.

Think it over and if it doesn't seem like there is a job for you to do then look around and see what you can do to improve the shack and make it even nicer. Maybe you will have some thoughts on making the meetings even more enjoyable. Bring them forth, it is to the benefit of all.

W2UAE

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The speaker at the next meeting of the DVRA will be Mr. Jack Brown, contributing editor of CQ Magazine and author of Single Sideband Techniques, published by CQ. Mr. Brown, W3SHY, is a consulting engineer on equipment development at Barker and Williamson and previous to that was on the staff of the Central Propagation Laboratory, National Bureau of Standards. He was first licensed in 1938 as W8SHY and has also held the calls W8SHY/J9 and W4OLL. He has been interested in single sideband since 1948.

Mr. Brown is bringing with him a couple of co-workers, Tom Consalvi, W3EOZ (B and W Amateur Sales) and Lou Russo, W3JTU (designer of the B and W 51SB) who will assist him in the lecture and demonstration.

The talk will deal with the basic concepts of single sideband and the demonstration will deal with some late B and W equipment for SSB use with emphasis on how it can be incorporated into existing equipment.

This is certainly a meeting that you should not miss. See you there. February 9th.

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Work has been started on the big twenty meter rig up at the shack to get it on the air in the near future. UPS and YGU have been spending quite a few hours on getting the bugs out. That 400 watts should cut a path around the world when it is pumped into the beam. The beam will be put back up in the near future if the weather will make outdoor work possible.

We now have the two meter beam and the ground plane available for the fellows who want to see what each will do.

Don't think that it is cold up at the shack on these cold winter nights because the heater is capable of driving you out if turned up far enough. The heat is turned on early and the shack is warmed up by seven o'clock.

# DVRA NEWS

## ZI's KORNER

Well fellers it looks as though a combined DVRA Christmas Party with the YL's and YF's invited is something we should have done years ago. 'Bout time we had the gals with us in more of these affairs anyway. Our last party was a ripping success, thanx to Don Field, W2UAE, and his gracious wife Virginia.

It was sure nice to have good ole Sammy Kale, W2VU, (Lt. Col. Kale to youse guys) with us at the party too, after many months of absence. Sam recently returned from duty in Turkey, and will now be stationed at the Pentagon, Washington, D.C.

Got a letter from Sid Deitz, W2FDE, a few days ago. He is now stationed at Fort Bliss (El Paso, Texas) with an anti-aircraft battery, doing work on automatic radar fire control. Sez he would much rather be in radio communications work and hopes to get transferred to Fort Monmouth eventually. Incidentally, Sid also got a radiotelephone 1st class ticket just before entering the Army. Congrats to you fella.

Les Allen, W2CCO, seems to be hanging out more wash on 75 phone these days as he has been heard quite often lately. Understand he has a new antenna for this band and no doubt wants to see how the new installation is working out. Lets hear more from you Les.

The 10th Annual Old Timer's Nite Round-Up and the 25th anniversary of the DVRA will be the big events coming up during the early part of 1955. These two combined events will once again be held at the Hotel Stacy Trent as in the past and the date has been set for April 23rd. Better mark the calendars fellows, you don't want to miss this one.

Win Clark, W2NDO, has a new QTH in Collingswood, N.J. and can be seen lurking in and about the Trenton area these days servicing the many oil company truck mobile units which are on the air in the Trenton-Princeton area. Win works for a mobile service organization in Philadelphia.

Congrats to Art Krey, W2EFH who was recently promoted with the Bell Telephone Company. He is foreman of the Morrisville District. FB Art.

Anybody seen the beautiful new layout of Walt Reikosky's up on "Radio Hill", where he has built a new home, complete with wireless station. Never saw such a place with a view like that, owned by any ham before. Nice going Walt. Bet your two meter DX is really good.

Joe Caracciolo, W2ASO, has been heard on the 75 meter band quite frequently of late. Recall when I last worked him on CW, that was 20 years ago, to the month. At that time he lived on Grand Street. Welcome to the band Joe, always room for one more.

Steve, W2QJO, down Yardville way reports into the N.J. 75 Meter Phone Net now and then. Glad to have you with us Steve, do it more often.

Speaking of the N.J. 75 Meter Net, most of the fellows know that this net meets each Sunday morning on 3900 kc. at 0900 hours and we are always looking for new material, so how about some of you locals showing up on 75 on Sundays? This is a good communication activity for lots of you who never get any traffic handling practice, don't be bashful everyone is welcome. We now have 36 stations signing in with W2ZQ our club station as Net Control. More interest is needed in communication work in this area.

W2ZI hooked a station on Austria a few days ago and took a message for a GI's mother in NYC and delivered it within 5 minutes after receipt. It goes without saying that the lady was overjoyed, why not give a little bit of your time to make someone a glad New Year?

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OFFICIAL BULLETINS

NR. 479 On January 14, 1955 judging for the 1954 Edison Radio Amateur Award was concluded. Benjamin S. Hamilton W6VFT of La Mesa California was proclaimed winner in recognition of his outstanding civil defense organizational and educational work for San Diego County California. Special citations were announced for Carl J. Theis W8EKH, Cleveland Ohio and Carter Rogers W8NCS of Richwood West Virginia for notable amateur radio services during 1954. A resolution was adopted commending the meritorious services of more than 800 amateurs assisting in emergency communications during the triple hurricane emergency. Presentation of the Edison Award to Benjamin Hamilton W6VFT is scheduled for February 10, 1955 in Washington D.C.

NR. 480 FCC has issued a notice of proposed rule making based on League requests formulated by the ARRL Board of Directors at its 1954 meeting. The Commission proposes to extend the 40 meter Novice band to read 7150 to 7200 kc. Comment date is April 15.

GAS BUGGY FUMES

To quote some of the popular sayings of the day, "So there you are and here I am again" but this past month was pretty lean on mobile contacts, so the column will be proportionately smaller this month. I sure would welcome some dope on mobile activity from the two and seventy-five meter bands.

W2DST, Dow can be heard on ten meters occasionally from home although we understand he is also mobile. We hooked up with Norris, W2ESG from down around Birmingham, N.J. and had a fb QSO with him. I believe quite a few of the Trenton boys have worked Norris. Also worked department, Jake W2RMC, Arch, W3MVG and our old standby Bob, W2IIA.

For those mobileers who wish to improve the selectivity of their converter-receiver combinations there is an article in this month's QST on page 34 by W6MHP. He describes a cheap and simple filter working between the converter and receiver without making any special connections on the same.

Any ideas you would like to see written up in this column just get in touch with us and we will be only too glad to receive them. Well, we will try to have a better and bigger article next month so till then 73

W2UPS

PS- Wonder who will be the first SSB mobile in Trenton?

Some claimed scores in the DVRA WAS contest:

W2ZI 16 confirmed

W2Haz 16 worked, 8 confirmed

W2FYT 32 worked, all on 73 meter SSB

Let's hear from some of the rest of you before the March issue

New ham in the area- Henry Nissen, KN2KNS, Trenton Road, Browns Mills

# DVRA WAS CONTEST

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There will also be first and second prizes for "Short Wave Listeners" under the same above rules, except verification of states by reception only.

In the case that entrants in either group do not contact and verify the entire 48 states, prizes will go in order of most states verified.

Prizes will be awarded in August at the Annual DVRA Doggie and Corn Roast. The five winners will be given free tickets to the affair. In the event this affair is not held, the prizes will be awarded at the regular monthly club meeting in September.

JUDGING COMMITTEE: The Judging Committee will consist of the following:  
Lester H. Allen, W2CCO, 704 Quinton Ave., Trenton, New Jersey  
William F. Petty, W2HAZ, 777 Chambers St., Trenton  
Edward G. Raser, W2ZI, 315 Beechwood Ave., Trenton

Members of the Judging Committee may participate in the contest, but will not be eligible for prizes.

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#### PRIZES

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## DYRA NEWS

In the November and December issues we published two parts of the ARRL Communications Department Rules and Regulations. This month we cover those parts of the rules dealing with station appointments.

15. Station and Observer Appointments. Each of the following appointees shall (a) report activities monthly to the SCM; (b) keep his station in readiness for operation; (c) follow ARRL operating practices; (d) participate in League activities; (e) hold message files ready for call for verification of numbers or traffic count.

The Official Relay Station (CRS) appointment shall be granted by SCM's on application to those members meeting the general appointment qualifications who especially (a) display a high degree of interest and activity in c.w. relay traffic work, nets and schedules; (b) demonstrate ability to transmit and receive at 15 w.p.m. or higher speeds; (c) follow standard message forms, ending signals, procedures and abbreviations coming under recommended ARRL operating practice and (d) follow exemplary technical and operating practice such as tune-up using dummy antennae with major adjustment outside of heavy operating hours.

The Official Phone Station (OPS) appointment shall be granted by SCMs on application to those members meeting the general appointment qualifications, who (a) display interest in major voice communications activities and agree to support section nets and schedules capable of relaying traffic or other practical communications; (b) utilize and follow message and procedure standards recommended by the League when so engaged; (c) employ circuit precautions avoiding overmodulation and frequency modulation on a.m. carriers, and transmitter indicators to detect maladjustments and (d) follow exemplary technical and operating procedures such as tune-up using dummy antennas with major adjustment outside of heavy operating hours.

Official Bulletin Station (OBS) appointees shall be named by SCMs only in accordance with geographic needs for local coverage, preference being given stations having considerable amounts of power, and preferably who can demonstrate ability to copy the Headquarters station in advance of receipt of mail information. Applicants must (a) guarantee a minimum of three scheduled transmissions per week; (b) adhere to schedules agreed upon with SCM and; (c) return information on current or revised schedules on periodic surveys.

Official Experimental Station (OES) appointees shall be appointed by SCMs from among those members active in developing successful communications systems and equipment applications and collecting propagation data in the v.h.f., u.h.f. and s.h.f. amateur bands. This appointment is to be available only to amateurs operating stations on one or more bands above 50 Mc. (a) Applicants shall indicate the problems and experimental projects in which they have continuing interest. (b) Appointees shall report monthly their contacts, observations and progress on the specific problems and communications justifying this type recognition. (c) Stabilized signals, non-radiating receivers and the like shall be used as appropriate to the frequency and mode of emission in accordance with the general progress of development in the designated bands.

Official Observers (OO) shall be appointed by SCMs to promote orderly operating and assist compliance with government regulatory provisions. Official observers will be appointed in the field organization to maintain an ARRL Cooperative Monitoring Service. Each Observer shall show continuing activity and send Cooperative reports to stations heard radiating spurious emissions in violation of FCC regulations. A.C. notes, unstable signals, overmodulation, parasitics, harmonics, off-frequency signals, illegal



## DVRA NEWS

broadcasting and other abuses will be made the subject of report direct to the individual concerned. Observers will be classified by the SCM in accordance with demonstrated ability and interest as follows: I. Precise frequency checking (plus or minus 1 kc at 14 Mc.). II. General frequency checking (plus or minus 5 kc. at 14 Mc.) III. Radiotelephone checks for modulation, stability, quality. IV. Radiotelegraph checks for notes, clicks, chirps and stability, and for radioteletype operation. Observers must possess equipment appropriate to the observing fields to be covered as pre-requisite to appointment. Class I and II Observers must measure within their prescribed limits of accuracy on two of four Frequency Measuring Tests run by ARRL each year to retain appointment. New Observers must pass such a test to qualify, all initial appointments otherwise to be made as Class III or IV. Observer appointments will be cancelled for inactivity of three months or more, subject to reinstatement for renewed and consistent activity. Monthly reports through SCMs are required.

16. Awards will be made and test or contest activities announced from time to time to extend encouragement to individual progress in operating procedures, in accuracy and speed of making contacts and handling record communications and in furtherance of individual and group ability to render practical communications efficiently. Certifications or awards as recognition for progress and accomplishment in Amateur Radio will also be made under detailed provisions published in Operating an Amateur Radio Station or from time to time in QST. General operating procedures may be codified with consideration to the practice and suggestions from the field organization. The minimum procedures helpful to clear-cut and efficient operations will be recommended and set forth in Operating an Amateur Radio Station.

17. The League list of clubs or appointees must not be made available for commercial solicitation or advertising purposes. SCMs may make available such information to their sub-appointees as is desirable in effectuating amateur organization needs. On petition of an affiliated club or on request of the members signing petitions to nominate for ARRL office, such a list of section or division scope may be furnished.

18. These Rules and Regulations shall have the force and effect of By-Laws of the League. They may be amended as necessary from time to time by the Communications Manager, who shall cause more detailed provisions to be published as needed in the current edition of the League publication Operating an Amateur Station. Amendments to the current edition shall be effective on publication in QST.

### SELL AND SWAP

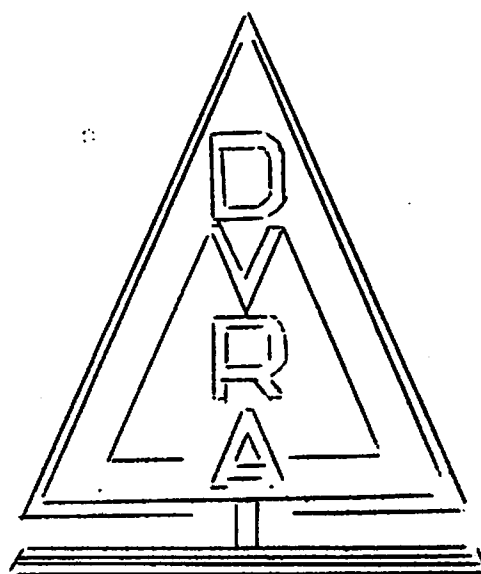
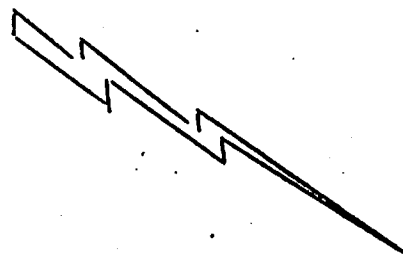
Wanted- Bandspread coils for HRC Senior. Need 80 and 40 but will take 20 also.

Sell-Lettine Model 240, 40 watt phone, cw transmitter with coils, \$55  
Heathkit antenna tuner \$10

See Frank Yates, K2DZS

Meeting Program for March- ARRL TVI Movie. This is a good one- don't miss it.

# DVRA NEWS





JUDGING COMMITTEE: The Judging Committee will consist of the following:  
Lester H. Allen, W2CCO, 704 Quinton Ave., Trenton, New Jersey  
William F. Petty, W2HAZ, 777 Chambers St., Trenton  
Edward G. Raser, W2ZI, 315 Beechwood Ave., Trenton

Members of the Judging Committee may participate in the contest, but will not be eligible for prizes.

DISQUALIFICATION: Failure to comply with contest rules and/or FCC regulations will result in disqualification. The Judging Committee will review all cases and their decision will be final.

MISCELLANEOUS: Contest entrants who are not members of the DVRA are not obligated in any way to the club.

All entrants should send a note to the Editor of the DVRA NEWS, William P. Virgin, W2JWA, 48 Prospect St., Trenton, by the first of each month, stating the number of states worked and verified to date. This will enable the editor to compile a box score for publication in the NEWS monthly.

\* \* \* \* \*

### PRIZES

#### Prize

#### Donor

Amateur First Prize:	Astatic D-104 Microphone or Speed-X Automatic Key 100 QSL cards One 807 tube Soldering Pencil Roll Scotch Electrical Tape Roll Hookup Wire	Les Allen, W2CCO Bill Petty, W2HAZ Charlie Rebman Les Allen, W2CCO Bill Griffith, W2EGE Les Allen, W2CCO
Amateur Second Prize:	Telechron Electric Clock 100 QSL cards One 807 tube Soldering Pencil Roll Scotch Electrical Tape Roll Hookup Wire	Bill Griffith, W2EGE Bill Petty, W2HAZ Charlie Rebman Les Allen, W2CCO Bill Griffith, W2EGE Les Allen, W2CCO
Amateur Third Prize:	Pair 866 rectifiers Soldering pencil Roll Scotch Electrical Tape Roll Hookup Wire	Dave Van Nest Les Allen, W2CCO Bill Griffith, W2EGE Les Allen, W2CCO
SWL First Prize:	ARRL Handbook Roll Scotch Electrical Tape Roll Hookup Wire	Les Allen, W2CCO Bill Griffith, W2EGE Les Allen, W2CCO
SWL Second Prize:	ARRL License Manual and How to Become a Radio Amateur Roll Scotch Electrical Tape Roll Hookup Wire	Les Allen, W2CCO Bill Griffith, W2EGE Les Allen, W2CCO

The five winners will also be given a free ticket to the DVRA Annual Doggie and Corn Roast, when the prizes will be awarded.

# DVRA WAS CONTEST

## CONTEST RULES

TIME: Starting time 0001, January 1, 1955  
Ending time 2400, June 30, 1955

FREQUENCIES AND EMISSION: Any or all of the authorized amateur bands may be used. Any or all types of emission authorized by FCC regulations may be used or combinations of same.

ELIGIBILITY: All members of the Delaware Valley Radio Association are eligible, regardless of where they reside.

Any other licensed amateur residing in Trenton, New Jersey, or within a ten mile radius of Trenton is also eligible. Judging Committee will decide "borderline" cases.

Mobile stations may enter the contest, or combinations of mobile and fixed station, provided that no qualifying contacts take place while a mobile unit is further than ten miles from Trenton.

VERIFICATION OF CONTACTS: Winners will be selected on states confirmed by QSL or letter verification of contact. Contest entrants will be given until July 15th to receive delinquent QSL cards from contacts. All qualifying QSL cards and check sheets must be turned in to a member of the judging committee by July 20, 1955. NC QUALIFYING QSL WILL BE ACCEPTED BEARING A POSTMARK LATER THAN JULY 15, 1955.

For your convenience and to aid the judging committee, WAS Check Sheets are available free at Allen and Hurley, 23 S. Warren St., Trenton. These check sheets must accompany all entries.

AWARDS: Prizes will be awarded to the three amateurs completing the working of all states. Dates of contacts will determine the first, second and third prize winners.

There will also be first and second prizes for Short Wave Listeners under the same above rules, except verification of states by reception only.

In the case that entrants in either group do not contact and verify the entire 48 states, prizes will go in order of most states verified.

Prizes will be awarded in August at the Annual DVRA Doggie and Corn Roast. The five winners will be given free tickets to the affair. In the event this affair is not held, the prizes will be awarded at the regular monthly club meeting in September.

## DVRA NEWS

Here's one from the DVRA NEWS , November 1944

"Wonder how many of you guys have noticed the perfectly beautiful radio station which the Navy is building up at Mercer Airport alongside the Airways beacon. Well if you didn't, be it known that it is on the EXACT SITE WHERE THE DVRA WAS GOING TO BUILD its clubhouse some years ago. That was when the Mercer County Board of Freeholders was considering donating a plot of ground to us for use as a Civic Center Emergency Radio Control Station. ..."

For the information of any who don't know, that is the building which has since become our club radio station.

-----

The call is always out for information, articles or what have you to go in the paper. There are a helpful few who month after month supply the copy for the NEWS. The majority of the club members never contribute so much as a line. This would imply that no one is rebuilding, no one has had to work out TVI difficulties, no one is working any DX, no one is handling traffic. No one that is except those few who take the trouble to send something in, and the few items that they can gather about other members. Did you notice how slim the paper was last month? There was practically nothing in it. That was because those few were all busy working on the plans for Old Timer's Nite. They can't be expected to do everything that comes along. How about some help on this.

-----

When the meeting's called to order and you look about the room  
You're sure to see some faces that out the shadows loom;  
They are always at the meetings and stay till it is through,  
The ones that I would mention are the always faithful few.  
They fill the vacant offices as they're always on the spot  
No matter what the weather, though it may be awfully hot,  
It may be dark and rainy but they are tried and true,  
The ones you can rely on are the always faithful few.  
There are lots of worthy members who will come when in the mood  
When everything's convenient they can do a little good;  
They're a factor in the club and are necessary too  
But the ones who never fail us are the always faithful few.  
If it were not for these faithful with shoulders at the wheel  
Keeping the club moving forward without a halt or reel,  
What would be the fate of clubs which have so much to do.  
They surely would go under but for the always faithful few.

Anonymous

OK, so it isn't much of a poem- it does express the situation pretty well. There are a few who can always be counted on. The others are along for the ride. At the March meeting where this paper will come out we are going to elect officers who will lead the club for the next year. Get behind them and give your support. Don't sit back and wait to be asked to do something. If there is a club project under way offer to help with it. There are jobs to be done at the sheak. Help out with them.

# DVRA NEWS

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Vice President  
Secretary  
Treasurer

Donald G. Field, W2UAE  
A.G. Wentzel, W2HX  
Edward G. Raser, W2ZI  
Charles Rebman

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Edward G. Raser, W2ZI  
Robert A. Reikosky, W2IIA  
William P. Virgin, W2JWA

## SPECIAL APPOINTMENTS

Assistant Secretary  
W2ZQ Station Manager  
Historian  
Association Property  
Sergeant at Arms  
Refreshments

Richard E. Amrich, W3WUY  
Winfield Clark, W2NDO  
Edward G. Raser, W2ZI  
Richard Henrie, W2UPS  
John Ferrara, W2FPT  
Charles Moore, W2HCR

## STANDING COMMITTEES

Old Timer's Nite  
Field Day  
Building

Edward G. Raser, W2ZI  
Richard Henrie, W2UPS  
A.G. Wentzel, W2HX

## NEWS STAFF

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Business  
VHF Editor  
YL News  
Circulation  
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Mobile News

William P. Virgin, W2JWA  
David Van Nest  
Robert A. Reikosky, W2IIA  
Merceda Filla, K2DSL  
Richard E. Amrich, W3WUY  
Robert Bate, K2CLD  
Richard Henrie, W2UPS

Published on the second Wednesday of each month by the Delaware Valley Radio Association, Incorporated, Trenton, New Jersey.

Club Meetings: are held on the second Wednesday of each month at 8:00 P.M. in the Chamber of Commerce rooms, Hotel Stacy Trent.

OFFICIAL BULLETINS

NR. 481 With the 1955 legislative session about to begin, amateur groups in many states are once again having call letter license plate bills introduced into the legislative hopper. States already granting this privilege are Alabama, Arizona, Arkansas, California, Delaware, Florida, Georgia, Indiana, Kansas, Louisiana, Michigan, Minnesota, Mississippi, Missouri, Nebraska, Nevada, New Mexico, North Dakota, Ohio, Oklahoma, Oregon, South Dakota, Tennessee, Texas, Virginia and Wisconsin. In addition, the Canal Zone and Alaska grant call letter license plates. Virginia authorizes plates only for amateur mobile units. ARRL Headquarters continues to supply assistance and information on this subject to interested groups.

NR. 482 With the approach of spring and warmer weather, there exists the possibility of floods and consequent communications emergencies. All US and Canadian amateurs are urged to provide themselves with means for working on the National Emergency frequencies, 3550, 3875, 7100, 7250, 14050, 14225, 21050, 28100 and 29640 kc, and to contact their local ARRL Emergency Coordinator or the Section Emergency Coordinator, whose address may be found on page 81 of November 1954 QST, to learn of local plans. Amateurs who are not already members are invited to join the ARRL Amateur Radio Emergency Corps.

NR. 483 Amateurs interested in propagation observation on 50 and 144 Mc are asked to monitor two frequencies currently in use in auroral studies at Cornell University. Transmitters of 250 watts output are being run continuously at a high location near Cortland, New York, feeding large horizontally polarized broadside arrays aimed north. Transmissions consist of CW for 18 seconds, followed by 12 seconds of pulses. The call KE2CXU is given at intervals on voice. Amateurs are asked to observe direction of arrival, degree of frequency shift due to auroral propagation, when present and and other unusual signal characteristics. Please send reception reports to ARRL.

NR. 484 ARRL announces the continued availability of a Reference Guide for code trainees. The guide contains a bibliography of articles on code training, a schedule of WIAW practice transmissions, code charts and helpful suggestions. Copies will be sent gratis to those learning the code, to individual amateurs or club groups engaged in assisting prospective amateurs to learn the Continental Code. Address requests to Communications Department ARRL, West Hartford, Connecticut.

NR. 485 FCC has been citing some amateurs for neglecting to identify their stations properly and for transmitting longer than ten minutes without signing their calls. Members of traffic nets and amateurs engaged in round table contacts have been observed to identify their stations improperly by use of the suffix instead of the full call. To avoid being cited, the complete call as assigned should be sent at intervals and in the manner specified by regulations. It is suggested that all amateurs concerned review section 12.82 of FCC Rules Governing the Amateur Radio Service.

## SOMETHING TO THINK ABOUT

Have you ever tuned on on the seventy five meter band on say a Sunday afternoon and listened to some of the stuff going on? It can be pretty disgustin to waste time listening to.

It goes something like this: "Joe there is a guy in Podunk who gave you some QRM that time and I know him. I'll get even though by parking on his frequency and messing up his QSO when I hear him on." Or, "Mike, there is a fathead in Harrisburg who thinks he owns the frequency and is giving you some trouble. I'll just jack up the power and see if I can't run him off."

Just what do people think who casually tune through the amateur bands and hear such goings on? Certainly they can't think that these utterings are coming from intelligent grown-ups who are actually licensed by the Federal Communications Commission. What is the government doing allowing the radio waves to be used in such a degenerated fashion? Certainly these are thoughts that must enter the minds of the general public upon hearing such demonstrations of amateur radio techniques.

True, it is not the general practice of all amateurs to operate in such a fashion, but it is also true that the first impression is the most important, and such an unruly exhibition makes a poor first impression. While such behavior is not the accepted standard we know that it is not a very rare thing. Amateurs are not the only ones who listen to amateurs and certainly if members of the FCC were to hear too much of this sort of thing they would not hesitate to allot some of our frequencies to commercial stations who would not permit such tripe on the air.

We as licensed amateurs have the responsibility of conducting ourselves as well trained operators and we are entrusted with furthering the art of radio communication with our experimenting, operating, and our traffic handling.

Let each of us do his part to give everyone a good opinion of what a radio amateur really is.

Don't run down your fellow ham. You are running yourself down in more ways than one.

## THE AMATEUR'S CODE

1. THE AMATEUR IS GENTLEMANLY... He never knowingly uses the air for his own amusement in such a way as to lessen the pleasure of others. He abides by the pledges given by the ARRL in his behalf to the public and to the Government.
2. THE AMATEUR IS LOYAL... He owes his amateur radio to the American Radio Relay League, and he offers it his unswerving loyalty.
3. THE AMATEUR IS PROGRESSIVE... He keeps his station abreast of science. It is built well and efficiently. His operating practice is clean and regular.
4. THE AMATEUR IS FRIENDLY... Slow and patient sending when requested, friendly advice and counsel to the beginner, kindly assistance and cooperation for the broadcast listener; these are marks of the amateur spirit.
5. THE AMATEUR IS BALANCED... Radio is his hobby. He never allows it to interfere with any of the duties he owes to his home, his job, his school, or his community.
6. THE AMATEUR IS PATRIOTIC... His knowledge and his station are always ready for the service of his country and his community.



# DVRA NEWS

## GAS BUGGY FUMES

Now that the winter is just about washed up lots of amateurs will once more be thinking of dusting off the ole mobile rig or perhaps installing a new one in the family vehicle. Guess no one will argue the fact that springtime is fb for mobiling. If there is enough interest shown maybe we can get a few hidden transmitter hunts going. After looking over the list below, guess it will be on two meters.

We hear through the grapevine that W2QVD is thinking about drilling holes in his new buggy. Good boy, Barney, let's get busy. Worked W3QHF, Bob and W3FCJ both from Levittown on ten meters recently. Also W2IIA and his brother Walt W2GY. were worked on ten meters. Business on ten is slow as usual though occasional openings can be heard. Understand IIA worked some DX with his ten meter co-axial antenna. Nice going Bob. W2QLP is a steady customer of 75 mobile around these parts.

On April 23rd, Old Timer's Day, W2ZQ will be on seventy-five, ten and two meters to work any mobiles coming into Trenton to attend the banquet or to visit the shack at West Trenton. The frequencies which have been set are: 29.0 Mc., 147.0 Mc., and 3810Kc.

The following is a partial listing of the mobiles operating in and around Trenton: On Two; 2IIA, 2ASQ, 2UNT, 2HX, 2OYL, 2RLY, 2WCA, 3AXL, 3EGE, WN3AWY, 3WDJ; On Ten- 2LYV, 2IIA, 2RYB, 2WCA, 2RMC, 2UPS, 2KVJ, K2BDA, K2ART; On Seventy-Five- 2QLP and I believe 2ZI, how about that Ed? Also 2CEH on ten. No doubt we missed some of the boys so let me hear about it gang and we'll add your name to the list. The new CQ mobile issue is out on the stands and has some good info in it.

## ----- 73, W2UPS

The 1 Kw. seventy-five meter phone rig up at the shack is to be revamped and placed in two six foot racks which will be enclosed in metal screening. It should look quite commercial when finished.

Tuesday night bull sessions up at the shack are still being conducted. A fine place to meet the local gang and keep up with what is going on.

K2CLD now is the owner of an HRC-60 and is back to punching brass. Bob had been off the air for some time, but that receiver will sure get him back on.

Time is running out for W2JWA as a single operator. Bill takes on a bride next month.

With W2UAE's last addition to the family he now has a trio which he claims is going to take the place of the McGuire Sisters when they grow too old for the business. Three girls- no boys.

A fine talk on single sideband was enjoyed by more than sixty of the local hams at the last meeting of the DVRA. Jack Brown, W3SHY was the speaker and everyone had a first class opportunity to obtain information on single sideband technique.

Good weather is on its way and more mobile trips will be coming along. So get the gear loaded and in working order and join in the fun.

# DYRA NEWS

The Program for the April Meeting  
(April 13, 1955)

## ANTENNA FORUM

### THE EVOLUTION OF "BEAMED POWER" ARRAYS

Patterns, gains, beamwidth, impedance matching, transmission lines, F/B ratio, "baluns", plus other reception and transmission problems.

by

M. D. ERCOLINO

The speaker discusses the development of antennas, their characteristics, patterns and lobes, gain, impedance; transmission lines, masting, guying, rotation, S/N ratio and phasing lines.

Mr. Ercolino will explain how to evaluate the installation site so that the proper array will be installed at the first try without repeating common mistakes. This will give you the assurance and ease of mind that you have done the job expertly and adequately with the positive feeling you can work anything you can hear.

Mock models of Telrex "Beamed Power" Rotaries and photos of the W2BDS and W2HJR "Big Bertha" installations will be on view.

The meeting will be concluded with a question and answer period. You are invited to present you particular problem.

SPEAKER: M.D. "Mike" Ercolino, President and Chief Engineer, Telrex, Inc., Asbury Park, New Jersey.

"Mike" has been active in radio since 1921 as an amateurs, commercial operator, and communications equipment designer. He is well known as a consultant in the antenna field, served for eight years as Chief Engineer of the Beacon and Direction Finding Section, Fort Monmouth and is holder of numerous patents including the famous conical-V Beam, widely used for TV.

- 1 Telrex "Mini-Beam" (15 or 20 Meters )
- 2 \$10 gift certificates toward the purchase of any model in the Telrex line.

# DVRA NEWS

## NEW MEMBERS

We welcome into the club the following new members:

William Duff, WN3AMF  
Fairless Hills, Pa.

Kenneth Watov, W3WSK  
Morrisville, Pa.

Frank Mennuti, WN2IHT (expired)  
Trenton, N.J.

Frank Profy, W5CHL  
Bristol, Pa.

## MEMBERS IN SERVICE

Pvt. Sidney L. Deitz  
RA 11278921  
Btry A- 90th AAA Bn.  
Fort Bliss, Texas

Ken Zimmerman  
331 W. 23rd St.  
Merced, California

PFC Lyman Bethke  
RA 12444084  
55th Ord. Det.  
IFCR- N33  
APO 712, c/o Postmaster  
San Francisco, California

## LICENSE EXAMS

The next Novice and Technician class exams will be held Friday evening March 11, 1955 at 7:40 PM in the Trenton CD Headquarters on Hanover Street. All those interested, please get your forms filled out properly and notarized before coming in to take the exam. We cannot supply exams, you must send to the commission for them.

Any one interested on operating at W2ZQ on April 23, Old Timer's Day, please get in touch with Dick Henric, W2UPS (phone CMen 53832) and let him know at what times you will be available. Have you been checked out on the station equipment yet?

## FOR SALE:

- 1 National NC80X Receiver, good working condition \$35.00
- 1 National NSA Speech Amplifier, 1 watt, good condition, \$35.00
- 1 Thordarson No. 21P85 Plate Transformer, 600 volt, 300 mills, 15.00
- 1 RCA Plate and Filament transformer, 550-0-550 volts, 27 1/2 volts, \$6.00
- 1 Variable Rheostat, 500 watts, 12 1/2 ohm, \$12.00
- 1 Complete Power Supply, 625 volt, 200 mills, \$10.00

Contact Cyril Hoyer, W2VM  
185 Hamilton Avenue  
Princeton, New Jersey

5/55

# D.V.R.A. NEWS



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W2ZQ Station Manager  
Historian  
Association Property  
Sergeant-at-Arms  
Refreshments

Richard E. Amrich, W3WUY  
Winfiel Clark, W2NDO  
Edward G. Raser, W2ZI  
Richard Henrie, W2UPS  
John Ferrara, W2FPT  
Charles Moore, W2HCR

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Old Timer's Nite  
Field Day  
Building

Edward G. Raser, W2ZI  
Richard Henrie, W2UPS  
A.G. Wentzel, W2HX

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Circulation  
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David Van Nest  
Robert A. Reikosky, W2IIA  
Merceda Pilla, K2DSL  
Richard E. Amrich, W3WUY  
Robert Bate, K2CLD  
Richard Henrie, W2UPS

Published on the second Wednesday of each month by the Delaware Valley Radio Association, Incorporated, Trenton, New Jersey.



## DVRA NEWS

### NEW JERSEY'S LONG WAVE HIGH POWER WIRELESS STATIONS

#### TO BE DEMOLISHED THE PASSING OF AN ERA

As reported by Edward G. Raser, W2ZI  
Club Historian

On May 18th the old long wave station, built by the Germans in 1911, at Tuckerton on Jersey's salt marshes, officially closed its doors forever. Also the highest power spark station in the world at New Brunswick in Middlesex County, part of a world-encircling scheme of the British Marconi Company, will soon be a thing of the past. This station built in 1912 for the American Marconi interests has been sold to private investors, who will tear down both famous old stations and sell it for what the junk price of the metal will bring.

There will be a pang in the hearts of many old timers who vividly recall winding huge loading coils 3 feet long and six inches in diameter, so as to tune in the big arc sets and later the flute like notes of the 200 Kw. alternators. Will the New Brunswick station was originally planned to use a 300 Kw. "timed spark" system, but due to War I interfering, it only reached the testing stage. In 1917 the Navy took over, and operated the station by remote control from Washington, D.C. using the Alexanderson system of high frequency alternators, signing the now famous call of NFF.

In the early part of hostilities with Germany, long about 1916 the Tuckerton station was caught red handed, sending ship sailing information to submarines at sea off the Jersey coast, and was closed down for acts of espionage by the U.S. Government officials. The Navy took over at this period and operated a 60 Kw. Federal Arc until the new alternators arrived, via remote circuits from Washington, same as NFF, signing NFF. Tuckerton's original transmitter was a 100 Kw. German type alternator, this being abandoned when the Navy confiscated the station. Old WGG as it was then known to all long wave listeners, had quite a career of intrigue and change of owners. The more spectacular of the two big stations with its 860 foot lattice tower with huge umbrella antenna 3200 feet in diameter is a sight to behold! Just the guy anchors alone are as large as a good size summer shack at the beach. The guy insulators weigh several thousand pounds and the antenna with miles of wire, is the shape of a huge cartwheel. Many of the club members have had the good fortune to visit this station during our club group trips of the past few years. There will be no more of them, as within the next few months all will be gone.

Feeling that the story of these great stations should be preserved for history's sake at least, the writer made arrangements with the managers of both stations to take movies and color pictures of them, and work it into an interesting presentation with sound commentary. So on May 14 a picture taking safari left Trenton in the early morning, headed first across the Jersey plains for Tuckerton. Among those to make this historical trip were the writer, as guide, old timers W2LF (ex 8TF), W2GB (ex 8TC), W2QY (ex 8ADI), Bruce Kelly W2ICE (ex 8ACY) and Andy Rutherford (ex 8TQV) serving as the photographers. All the above, a group from the Rochester Amateur Radio Club, journeyed over a 1,000 miles just to get the pictures, which had been pre-arranged and inspired by W2ZI. We sold them a bill of goods and they liked it very much. So after taking some 200 shots around the station property, a very tired gang of hams returned to Trenton. The next day, Sunday, we all took off for New Brunswick, made many interesting pictures around the beautiful buildings and grounds along the banks of the old Raritan River.

## DVRA NEWS

As most of the interior equipment has already been removed here, our work was confined to the 400 foot masts and its maze of guy wires.

It may be of interest for the record that both stations were currently operated by RCA Communications, Inc. and up to about a year ago were on the air. They served well again during War II, and could put a signal across the pond when neither short wave or cable could do so, during severe magnetic disturbances. For those who might like to know, it is interesting to note that Tuckerton worked on a wavelength of some 16,000 meters (18.4 kc) while New Brunswick's wavelength was 13,200 meters (22 kc). One can visualize the tremendous size antennas needed to reach these low frequencies, the one at WII being one mile long, 32 wires spaced in a grid 150 feet wide.

We wish to give credits to Ralph Thomas at New Brunswick who is being transferred to Hawaii, and Dan Flomerfelt of Tuckerton who has already been transferred to a new assignment at the Rocky Point, Long Island, N.Y. high power station of RCA Communications, Inc. Long may the memory of these giants live, and the wireless pioneers who built them.

### Notes from the Annual Reports of the Officers and Directors of the American Radio Relay League, 1954

Approximately 10,000 newcomers joined the ranks of amateurs during the year.

Membership in the League reached the figure of 64,732 at year end, showing an increase of 6.78 %. Full membership grew at a faster rate, 10.15 %, to again reach an all-time high --- 46,206 in the United States and Possessions; with 1,755 in Canada our total voting membership is 47,961.

The total number of licenses outstanding at year-end was 124,436 compared with a reasonably reliable figure of 112,961 the previous year-end---, --- present counting procedures are designed to eliminate the inflationary double-count figures existing several years ago.

The 31st edition of the Radio Amateur's Handbook was brought out early in 1954 and was substantially sold out by September, a total of 100,622 copies. The total recorded distribution of the standard Handbook up to the end of 1954 was 2,545,835 copies.

Henry E. Carlsson, SM8BHQ, is radio operator on the Swedish ore boat m/v HOLMAALAND running between Morrisville and South America carrying ore to Fairless. Gets in town every two or three weeks.

George Ellington, K2MHD, is Superintendent of Police in Allentown, N.J.

The hamming Pilla family, Andy K2JID, Mike K2ART, Bunny K2DSL have left the Bordentown QTH and are back in town on Redfern Avenue just off Chambers.

W2HAZ is heading for St. Francis Hospital on May 23 for an operation. Will be laid up at home for four to six weeks. Be a chance to get that extra ten country endorsement to go with the DXCC if conditions are good.

Paul Soloman, W2GRW former DVRA club member has recently been assigned as radio officer aboard the new Atlantic Refining Co. super-tanker "Atlantic Communicator" and was last reported at Naples, Italy on the Persian Gulf run. Congrats Paul and bon voyage.

DVBA NEWS

OFFICIAL BULLETINS

NR. 495

The ARRL Board of Directors met in 1955 session at Hartford May 13 and 14. The Board granted approval of a National Convention to be held in the San Francisco region sometime in 1956. If feasible, the League will request FCC to permit frequency shift keying with less than 900 cycles shift. The Headquarters will study the advisability of upgrading the Novice written examination and the possible use of a WT prefix for Technician licenses. Canadian Director Alex Reid VE2BE was congratulated on 25 years of Board service. Percy C. Noble W1VER was named a member of the Executive Committee while Director Roberts W7CPY, Vice President Handy W1BDI, and Treasurer Houghton were returned to the Committee for an additional year. The Board complimented the Headquarters on its performance during the year and took specific note of three 25 year anniversaries of employees. The Board raised the salary of its General Manager. Former Director Ray Corbell W6JZ was invited to participate fully in the proceedings, although without vote, in the absence of Director Engwicht. The Board continued funds for organizational travel by field officials, and extended its appreciation for their fine performance.

NR. 496

FCC has now taken final action on a request formulated at the 1954 meeting of the ARRL Board of Directors. Effective June 22, the forty meter Novice band will be expanded to 7150 to 7200 kc.

NR. 497

All amateurs in ARRL Field Organization territory, individuals as well as club groups, are invited to participate in the annual ARRL Field Day June 25 and 26. Make this a personal exercise in emergency preparedness. Test battery and other emergency powered equipment, make any modifications necessary to insure full readiness and dependability. No special forms are required for entry but ARRL will furnish convenient reporting sheets upon request. Send for yours and plan to test amateur radio emergency gear in the annual Field Day June 25 and 26. Full details appear in June QST.

-----

Dick Amrich, W3WUY, is waiting for delivery of a new Elmac mobile receiver, which should be in about June 1st. He already has a 10 meter transmitter in the car.

-----

It is with deepest sorrow  
that we announce the death of our  
President and Founder

F. Dawson Bliley

on Tuesday, May 17, 1955

Bliley Electric Company  
Erie, Pennsylvania



## SWAP AND SHOP

For Sale SCR 522 unconverted for sale. \$25.00.  
Contact Stephan Meyer, W2EQF  
530 William Street  
Trenton, N.J.  
Phone EX 3-0001

For Sale 1 HRO Senior Receiver with general coverage coils 30 Mc. through  
broadcast band with speaker and power supply- \$95.00  
1 600v 200 ma. power supply- \$10.00  
1 VFO and Power Supply- \$15.00  
1 6AG7-807 transmitter - \$10.00  
1 Antenna tuner with relay- \$3.00  
Misc. meters, variable condensers, coils etc. -- Cheap !  
1 40 meter Amphenol folded dipole antenna- \$5.00

Frank V.C. Yates, W2DZS  
58 Wayside Lane  
Trenton, New Jersey  
Phone EX 6-9850

For Sale 1 Harvey Wells 50 watt transmitter TBS-50 Deluxe with APS-50 power  
and supply and Bandmaster VFO. Low price.  
Want

Novice crystals - \$1.50 each

Want A 60 cycle 115 volt a.c. light plant capable of 1 kilowatt  
or better. Will make a trade.

Richard L. Doege, W9RQK/2  
The Raynond House  
Lawrenceville, N.J.  
Tinoaks 6-0101

---

## CHANGE OF MEETING PLACE

Due to increased operations the Trenton Chamber of Commerce is converting all of their space into offices and hence the space will not be available for meetings. Until a regular meeting place is located, and while the weather continues to be warm all meetings will be held at the shack.

Present plans are for a fireplace to be erected on the club grounds at the shack. Mike Fekete has donated some cinder blocks but we need some more. If anyone has some to spare contact Dick Henrie or cart them to the shack.

We could also use some outdoor furniture at the shack- but no junk please. Contact Dick Henrie on this one too.

## JULY MEETING

As announced above the July meeting will be held at the shack. At that time we will have refreshments in the form of hotdogs. Come along and bring the YL or XYL. Charlie Moore will be in charge of the food and doing the usual fine job.

## DVRA NEWS

### WAS CONTEST RULES

Time: Starting time, 0001 January 1, 1955  
Ending time, 2400 June 30 1955

Frequencies and Emission: Any or all of the authorized amateur bands may be used. Any or all types of emission authorized by FCC regulations may be used or combinations of the same.

Eligibility: All members of the Delaware Valley Radio Association are eligible regardless of where they reside.

Any other licensed amateur residing in Trenton, New Jersey or within a ten mile radius of Trenton are eligible. Judging Committee will decide on "borderline" cases.

Mobile stations may enter the contest, or combinations of mobile and fixed station, provided that no qualifying contacts take place while the mobile unit is farther than ten miles from Trenton.

Verification of Contacts: Winners will be selected on states confirmed by QSL or letter verification of contact. Contest entrants will be given until July 15th to receive delinquent QSL cards from contacts. All qualifying QSL cards and check sheets must be turned in to a member of the judging committee by July 20 1955. No qualifying QSL will be accepted bearing a postmark later than July 15 1955..

For your convenience and to aid the Judging Committee, WAS check sheets are available free at Allen and Hurley, 23 S. Warren St. Trenton. These check sheets must accompany all entries.

Awards: Prizes will be awarded to the three amateurs completing the working of all states. Dates of contacts will determine the first, second and third prize winners.

There will also be first and second prizes for Short Wave Listeners under the same above rules, except verification of states by reception only.

In the case that entrants in either group do not contact and verify the entire 48 states prizes will go in order of most states confirmed.

Prizes will be awarded in August at the Annual DVRA Doggie and Corn Roast. The five winners will be given free tickets to the affair. In the event that this affair is not held the prizes will be awarded at the regular monthly club meeting in September.



Judging Committee: The Judging Committee will consist of the following:

Lester H. Allen, W2CCO, 704 Quinton Ave. Trenton  
William F. Petty, W2HAZ, 777 Chambers St., Trenton  
Edward G. Raser, W2ZI, 315 Beechwood Ave., Trenton

Members of the Judging Committee will not be eligible for prizes.

Disqualification: Failure to comply with contest rules and/or FCC regulations will result in disqualification. More than one operator per station will also result in disqualification. The Judging Committee will review all cases and their decision is final.

Miscellaneous: Contest entrants who are not members of the DVRA are not obligated to the club in any way.

All entrants should send a note to the Editor of the DVRA NEWS by the first of each month stating the number of states worked and confirmed to date.

#### PRIZES

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Amateur 2nd prize:	Telechron electric clock 100 QSL cards One 807 tube Soldering pencil Roll Scotch Electrical tape	Les Allen, W2CCO Bill Griffith, W2EGE Les Allen, W2CCO Bill Griffith, W2EGE Les Allen, W2CCO Bill Griffith, W2EGE
Amateur 3rd prize	Roll hookup wire	Les Allen, W2CCO
Amateur 3rd prize	Pair 866 rectifiers Soldering pencil Roll Scotch Electrical tape Roll hookup wire	Dave Van Nest Les Allen, W2CCO Bill Griffith, W2EGE Les Allen, W2CCO
SWL First prize:	ARRL Handbook Roll Scotch Electrical tape Roll hookup wire	Les Allen, W2CCO Bill Griffith, W2EGE Les Allen, W2CCO
SWL 2nd prize:	ARRL License Manual and How to become a Radio Amateur Roll Scotch Electrical tape Spool hookup wire	Les Allen, W2CCO Les Allen, W2CCO Bill Griffith, W2EGE Les Allen, W2CCO

The five winners will also be given a free ticket to the DVRA Annual Doggie Roast when the prizes will be awarded.



# DELAWARE VALLEY RADIO ASSOCIATION

## MEMBERSHIP ROSTER

MAY - 1955

Lester H. Allen	W2CCO	704 Quinton Ave.	Trenton 9	EX6-8919	EX3-0386
Richard E. Amrich	W3WUY	39 Mulberry Lane	Levittown	WI6-5378	EX6-1511
Robert E. Bate	K2CLD	1304 S. Broad St.	Trenton 10	EX4-9584	
Lyman Bethke	W2LZA	627 Beatty St.	Trenton 10	EX4-8484	
Barney Boncek	W2QVD	340 Jersey St.	Trenton 10		EX6-6511
Benny Ciavatta	K2CDH	370 Commonwealth Av	Trenton 9	OW5-1623	
Winfield Clark	W2NDO	116 E. Madison Ave.	Collingswd		
James E. Creeden	W2YFT	455 Hamilton Ave.	Trenton 9	EX3-4427	EX4-8181
Samuel Daugherty	W3VUX	34 Liberty St.	Trento	WO8-2627	
Sidney L. Deitz	W2FDE	130 Factory St.	Trenton 10	EX2-7598	
Raymond DeVos	W2TAM	140 Summit Ave.	W. Trenton		
John F. Diesel	W2WOA	489 Chambers St.	Trenton 9	EX2-4594	CY5-7012
Bill Duff	WN3AMF	264 Yorkshire Rd.	Fairlss. H1	WI6-2971	
Mike Fekete		1658 Princeton Ave.	Trenton 8	OW5-4240	
John Ferrara	W2FPT	133 Glendale Drive	Trenton 8	EX3-2775	
Donald G. Field	W2UAE	46 Sunset Ave.	W. Trenton	OW5-1966	EX2-5135
William Griffith	W3EGE	c/o Griffith Elect.	Trenton 10		OW5-8525
William Hannah	W2EUH	107 Newell Ave.	Trenton 8	EX4-3089	EX2-7111
Richard Henrie	W2UPS	100 Tipton Ave. Rt. 9	Trenton 9	JU7-6306	
Harry Ide	W2DZU	Box 249	Linwood		
Glen Jensen		339 Hutchinson St.	Trenton 10	EX3-0640	
Samuel Kale	W2VU	31 N. Lenape Av.	Trenton 8	EX3-8254	
John Kallapos		902 Cedar Lane	Trenton 10	EE2-0650	
Joseph Lewandowski	K2DQR	E. State St.	Trenton 9		
Francis J. Maier	K2BSZ	231 Columbia Ave.	Trenton 9		
Howard McCue	W2LYV	RD No. 1	Yardville	AX8-0819	
Frank Mennuti		211 Kent St.	Trenton 10	EX2-2249	EX3-1517
Charles S. Moore	W2HCR	139 Michigan Ave.	Trenton 8	OW5-9372	
William Petty	W2HAZ	777 Chambers St.	Trenton 10	EX3-3786	EX4-5577
Mike Pilla	K2ART	36 Redfern St.	Trenton 10	OW5-3735	
Frank Profy	W3CHL	907 Radcliffe St.	Bristol		
Edward G. Raser	W2ZI	315 Beechwood Ave.	Trenton 8	EX3-4809	EX6-1561
Charles Rebman		72 S. Olden Ave.	Trenton 9	EX6-6814	EX2-2539
Robert A. Reikosky	W2IIA	195 Oaklyn Terrace	Trenton 8	EX3-4039	OW5-6737
Walter R. Reikosky	W2GYW	Pleasant Valley Rd.	Titusville	PE70699W	OW5-6737
Herbert S. Spair	K2ASF	Route 33 Box 62	Robbinsvl	JU7-3990	
Michael E. Toth		343 William St.	Trenton 10	EX3-6980	EX2-2539
William P. Virgin	W2JWA	40 Patton Ave...	Princeton		Prin3150
Ken Watov	W3WSK	1002 Buckingham Way	Morrisvil	CY5-5268	
Donald G. Weeks		190 Brunswick Ave.	Trenton 8	OW5-2340	
A.G. Wentzel	W2HX	318 Gardner Ave.	Trenton 8	EX3-4823	
Charles Westwood	W2YGU	1204 Deutz Ave.	Trenton 10	OW5-0310	OW5-4121
Robert A. Worley	W2WI	1936 Riverside Dr.	Trenton 8	OW5-1533	
Frank V. Yates	K2DZS	58 Wayside Ave.	Trenton 8	EX6-9850	OW5-8525
Ken Zimmerman	W2CFL	305 Ardmore Ave.	Trenton 9	EX4-2121	



4/55

# D.V.R.A. NEWS



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LICENSED RADIO OPERATOR

*Published by the*  
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TRENTON, NEW JERSEY

Phone OWen 5-8525



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W3EGE

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Phone OWen 5-6737

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*Manufacturers of Quality Floor Tile*

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Box 855, TRENTON, N. J.

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Vice President  
Secretary  
Treasurer:

Donald G. Field, W2UAE  
A.G. Wentzel, W2HX  
Edward G. Raser, W2ZI  
Charles Rebman

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A. G. Wentzel, W2HX  
David Van Nest  
Richard Henrie, W2UPS  
Charles Rebman  
Frank Yates, K2DZS  
Edward G. Raser, W2ZI  
Robert A. Reikosky  
William P. Virgin, W2JWA

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Assistant Secretary  
W2ZQ Station Manager  
Historian  
Association Property  
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Winfiel Clark, W2NDO  
Edward G. Raser, W2ZI  
Richard Henrie, W2UPS  
John Ferrara, W2FPT  
Charles Moore, W2HCR

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Field Day  
Building

Edward G. Raser, W2ZI  
Richard Henrie, W2UPS  
A.G. Wentzel, W2HX

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Vhf Editor  
YL News  
Circulation  
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William P. Virgin, W2JWA  
David Van Nest  
Robert A. Reikosky, W2IIA  
Merceda Pilla, K2DSL  
Richard E. Amrich, W3WUY  
Robert Bate, K2CLD  
Richard Henrie, W2UPS

Published on the second Wednesday of each month by the Delaware Valley Radio Association, Incorporated, Trenton, New Jersey.

Club meetings are held on the second Wednesday of each month at 8:00 P.M. in the Chamber of Commerce Rooms in the Hotel Stacy Trent. All visitors are welcome.

## DVRA NEWS

April 1955

### OFFICIAL BULLETINS

NR. 491

Effective April 24, many sections of the United States will change to Daylight Saving Time. At that time, all WIAW operation will change to Eastern Daylight Saving Time. Those amateurs in areas remaining on Standard Time are reminded that the WIAW Official Bulletins, code practice transmissions, CRPL propagation forecasts and other announced ARRL Headquarter Station Operating activities will have to be tuned in one hour earlier than usual. Further details and a complete WIAW summer schedule will appear in May QST Operating News.

NR 492

Effective April 14 1955 FCC ammended Section 12.46b of the anateur regulations to include the radiotelegraph third class commercial permit with the first and second class licenses to allow an applicant for any class of operator license, except for Extra Class, to be given credit for the code examination.

NR. 493.

You are cordially invited to participate in the ARRL June VHF QSO Party. The contest period starts at 1400 local standard time Saturday June 11 and ends at 2300 local standard time Sunday June 12. Any amateur band 50 Mc. and above may be used. Rules provide for certificates to be awarded to the top scorer in each ARRL section. In addition, a certificate will go to the top scoring Novice, Technician and multiple operator station in each section from which three or more valid entries are received in these three special categories. Convenient reporting forms for the party will be supplied upon request. Complete rules may be found in June QST.

NR. 494

Utah, Maryland and Pennsylvania have now joined the ranks with 26 other states authorizing call letter license plates. ARRL Headquarters continues to supply information on this subject to interested groups.

-----  
This space was to have been filled with some swap and shop ads but in the process of moving they got lost. Sorry fellows and please drop me a card with any notices that you want in the June issue. And don't wait until the first of June. The sooner the better.

Send ads to William P. Virgin, W2JWA  
40 Patton Ave., Princeton, New Jersey

We'd also appreciate a little help in gathering some stuff to put in the paper. Out of the entire club membership there are perhaps only five who ever make the effort. It isn't fair to them to have to do it all. A postcard will do.



DVRA NEWS  
April 1955

- A PROGRAM- Any assignment thht cannot be complete in one phone call.
- CHANNELS- The fellow who has a desk between two expediters.
- EXPEDITE- To confound confusion with commotion.
- Consultant- Any ordinary guy ) with briefcase) more th an 50 miles from home.
- RELIABLE SOURCE- The guy you just met.
- INFORMED SOURCE- The guy who told the guy you just met.
- UNIMPEACHABLE SOURCE- The guy who started the rumor originally.
- TO IMPLEMENT A PROGRAM- Hire more people in the office.
- TO NEGOTIATE- To seek a meeting of minds without a knockong together of heads.
- NOTE AND INITIAL- Let' spread the responsibility for this.
- POINT UP THE ISSUE- To expand one page to fifteen.
- RESEARCH WORK- Looking for the jerk who moved the file.
- INTERPRETATION- Your warped opinion pitted against your adversary's good sense.
- WE ARE AWARE OF IT - We hoped that the fool who started it would have forgotton it by this time.
- WITH MODIFICATIONS- Will be shipped to you in kit form, maybe you'll have better luck- we can't get it to work.
- TO ACTIVATE- To make carbon copies and add more names to the memo.
- IT IS IN PROCESS- So wrapped in red tape that the situation is almost hopeless.
- WE WILL LOOK INTO IT- By the time the wheel makes a full turn we assume you will have forgotten about it.
- UNDER CONSIDERATION- Never heard of it.
- UNDER ACTIVE CONSIDERATION- We are looking into the files for it.
- A CLARIFICATION- To fill in the background with so many details that the foreground goes underground.
- WE ARE MAKING A SURVEY- We need more time to think of an answer.
- LET'S GET TOGETHER ON THIS- I'm assuming you're as confused as I am.
- GIVE US THE BENEFIT OF YOUR PRESENT THINKING- We'll listen to what you have to say as long as it soesn't interfere with what we have already decided to do.
- WILL ADVISE YOU IN DUE COURSE- If we figure it out we'll let you know.
- TO GIVE SOMEONE THE PICTURE- A long, confused and inaccurate statement to a newcomer.
- A CONFERENCE- A place where conversation is substituted for the dreariness of labor and the loneliness of thought.
- A MEETING- A mass mulling of master minds.
- RE-ORIENTATION- Getting used to working again.
- STATISTICIAN- One who draws a mathematically precise line from an unwarranted assumption to a foregone conclusion.
- AN EXPERT- A person who avoids all small errors as he sweeps toward the grand fallacy.
- CONFIDENTIAL- Spy bait and besides the stamp looks important.
- RESTRICTED- The commies alredy have it and we are waiting to see if they can make any sense out of it.



DVRA NEWS

April 1955

WAS CONTEST RULES

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Ending time, 2400 June 30 1955

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WVRA NEWS  
April 1955

The following is from the Mike and Key of Cincinnati. They got it from the Tri-States Sparks paper.

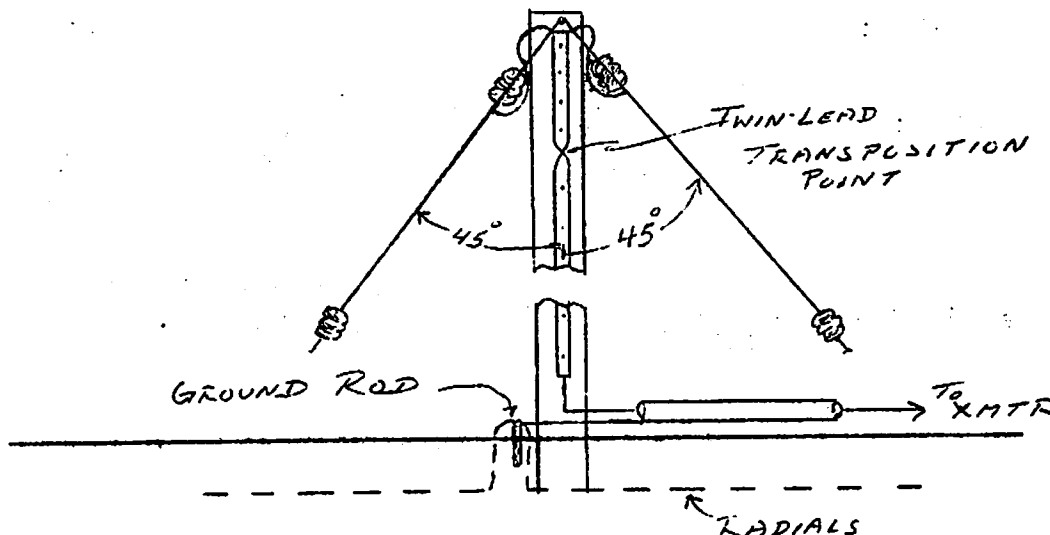
W9PNE, Brice, apparently is responsible for this 40 meter vertical which he reports has proven very successful. W5TJ and other fellows in the Oklahoma area have used this antenna and found as did Brice that it really is ok. However it must be erected as per the sketch or the results may be disappointing.

The mast is made of twenty foot 2x2 stood on the end on the ground. A 17 ft. piece of twin-lead (300 ohm) is used for the vertical section up the mast, being tacked to the mast using small nails. The transposition must be exactly six inches below the top of the Twin-Lead. The bottom ends of the Twin-Lead are joined together and connected to the center wire of the coax with the coax shield being fastened to the ground rod as are the three or better, more, radials.

He used 90 feet of RG8U to run to his transmitter. The junction of RG8U and Twin-Lead should be about three feet off the ground. The ground rod must be a low resistance one.

It is best to use heavy cord or light rope to secure the 45 degree radial guys to their anchor as wire distorts the antenna pattern and makes a considerable difference in the operation. The guys, or rather antenna extensions, are 13 feet long and the 45 degree angle is rather critical. The twinlead is secured to the 45 degree guys as shown below.

The three or more radials to be fastened to the ground rod and coax shield are to be at least 30 to 35 feet long. They may be buried or laid on top of the ground as Brice has part of his.



APRIL  
~~MARCH~~ 1955

"OT NITE ISSUE"

# D.V.R.A. NEWS



*Serving the Interests of the*  
LICENSED RADIO OPERATOR

*Published by the*  
***Delaware Valley Radio Association, Inc.***  
TRENTON, NEW JERSEY

Phone OWen 5-8525



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Richard Henrie, W2UPS

Published on the second Wednesday of each month by the Delaware Valley Radio Association, Incorporated, Trenton, New Jersey.

## DVRA NEWS

### NEW JERSEY'S LONG WAVE HIGH POWER WIRELESS STATIONS

#### TO BE DEMOLISHED THE PASSING OF AN ERA

As reported by Edward G. Raser, W2ZI  
Club Historian

On May 18th the old long wave station, built by the Germans in 1911, at Tuckerton on Jersey's salt marshes, officially closed its doors forever. Also the highest power spark station in the world at New Brunswick in Middlesex County, part of a world-encircling scheme of the British Marconi Company, will soon be a thing of the past. This station built in 1912 for the American Marconi interests has been sold to private investors, who will tear down both famous old stations and sell it for what the junk price of the metal will bring.

There will be a pang in the hearts of many old timers who vividly recall winding huge loading coils 3 feet long and six inches in diameter, so as to tune in the big arc sets and later the flute like notes of the 200 Kw. alternators. Will the New Brunswick station was originally planned to use a 300 Kw. "timed spark" system, but due to War I interfering, it only reached the testing stage. In 1917 the Navy took over, and operated the station by remote control from Washington, D.C. using the Alexanderson system of high frequency alternators, signing the now famous call of NFF.

In the early part of hostilities with Germany, long about 1916 the Tuckerton station was caught red handed, sending ship sailing information to submarines at sea off the Jersey coast, and was closed down for acts of espionage by the U.S. Government officials. The Navy took over at this period and operated a 60 Kw. Federal Arc until the new alternators arrived, via remote circuits from Washington, same as NFF, signing NFF. Tuckerton's original transmitter was a 100 Kw. German type alternator, this being abandoned when the Navy confiscated the station. Old WGG as it was then known to all long wave listeners, had quite a career of intrigue and change of owners. The more spectacular of the two big stations with its 860 foot lattice tower with huge umbrella antenna 3200 feet in diameter is a sight to behold! Just the guy anchors alone are as large as a good size summer shack at the beach. The guy insulators weigh several thousand pounds and the antenna with miles of wire, is the shape of a huge cartwheel. Many of the club members have had the good fortune to visit this station during our club group trips of the past few years. There will be no more of them, as within the next few months all will be gone.

Feeling that the story of these great stations should be preserved for history's sake at least, the writer made arrangements with the managers of both stations to take movies and color pictures of them, and work it into an interesting presentation with sound commentary. So on May 14 a picture taking safari left Trenton in the early morning, headed first across the Jersey plains for Tuckerton. Among those to make this historical trip were the writer, as guide, old timers W2LF (ex 8TF), W2GE (ex 8TC), W2QY (ex 8ADI), Bruce Kelly W2ICE (ex 8ACY) and Andy Rutherford (ex 8TQV) serving as the photographers. All the above, a group from the Rochester Amateur Radio Club, journeyed over a 1,000 miles just to get the pictures, which had been pre-arranged and inspired by W2ZI. We sold them a bill of goods and they liked it very much. So after taking some 200 shots around the station property, a very tired gang of hams returned to Trenton. The next day, Sunday, we all took off for New Brunswick, made many interesting pictures around the beautiful buildings and grounds along the banks of the old Raritan River.

## DVRA NEWS

As most of the interior equipment has already been removed here, our work was confined to the 400 foot masts and its maze of guy wires.

It may be of interest for the record that both stations were currently operated by RCA Communications, Inc. and up to about a year ago were on the air. They served well again during War II, and could put a signal across the pond when neither short wave or cable could do so, during severe magnetic disturbances. For those who might like to know, it is interesting to note that Tuckerton worked on a wavelength of some 16,000 meters (18.4 kc) while New Brunswicks wavelength was 13,200 meters (22 kc). One can visualize the tremendous size antennas needed to reach these low frequencies, the one at WII being one mile long, 32 wires spaced in a grid 150 feet wide.

We wish to give credits to Ralph Thomas at New Brunswick who is being transferred to Hawaii, and Dan Flomerfelt of Tuckerton who has already been transferred to a new assignment at the Rocky Point, Long Island, N.Y. high power station of RCA Communications, Inc. Long may the memory of these giants live, and the wireless pioneers who built them.

### Notes from the Annual Reports of the Officers and Directors of the American Radio Relay League, 1954

Approximately 10,000 newcomers joined the ranks of amateurs during the year.

Membership in the League reached the figure of 64,732 at year end, showing an increase of 6.78 %. Full membership grew at a faster rate, 10.15 %, to again reach an all-time high --- 46,206 in the United States and Possessions; with 1,755 in Canada our total voting membership is 47,961.

The total number of licenses outstanding at year-end was 124,436 compared with a reasonably reliable figure of 112,961 the previous year-end---, --- present counting procedures are designed to eliminate the inflationary double-count figures existing several years ago.

The 31st edition of the Radio Amateur's Handbook was brought out early in 1954 and was substantially sold out by September, a total of 100,622 copies. The total recorded distribution of the standard Handbook up to the end of 1954 was 2,545,835 copies.

Henry E. Carlsson, SM8BHQ, is radio operator on the Swedish ore boat m/v HOLMÅLAND running between Morrisville and South America carrying ore to Fairless. Gets in town every two or three weeks.

George Ellington, K2MHD, is Superintendent of Police in Allentown, N.J.

The hamming Pilla family, Andy K2JID, Mike K2ART, Bunny K2DSL have left the Bordentown QTH and are back in town on Redfern Avenue just off Chambers.

W2HAZ is heading for St. Francis Hospital on May 23 for an operation. Will be laid up at home for four to six weeks. Be a chance to get that extra ten country endorsement to go with the DXCC if conditions are good.

Paul Soloman, W2GRW former DVRA club member has recently been assigned as radio officer aboard the new Atlantic Refining Co. super-tanker "Atlantic Communicator" and was last reported at Naples, Italy on the Persian Gulf run. Congrats Paul and bon voyage.

## DVRA NEWS

### OFFICIAL BULLETINS

NR. 495

The ARRL Board of Directors met in 1955 session at Hartford May 13 and 14. The Board granted approval of a National Convention to be held in the San Francisco region sometime in 1956. If feasible, the League will request FCC to permit frequency shift keying with less than 900 cycles shift. The Headquarters will study the advisability of upgrading the Novice written examination and the possible use of a WT prefix for Technician licenses. Canadian Director Alex Reid VE2BE was congratulated on 25 years of Board service. Percy C. Noble W1VER was named a member of the Executive Committee while Director Roberts W7CPY, Vice President Handy W1BDI, and Treasurer Houghton were returned to the Committee for an additional year. The Board complimented the Headquarters on its performance during the year and took specific note of three 25 year anniversaries of employees. The Board raised the salary of its General Manager. Former Director Ray Corbell W6JZ was invited to participate fully in the proceedings, although without vote, in the absence of Director Engwicht. The Board continued funds for organizational travel by field officials, and extended its appreciation for their fine performance.

NR. 496

FCC has now taken final action on a request formulated at the 1954 meeting of the ARRL Board of Directors. Effective June 22, the forty meter Novice band will be expanded to 7150 to 7200 kc.

NR. 497

All amateurs in ARRL Field Organization territory, individuals as well as club groups, are invited to participate in the annual ARRL Field Day June 25 and 26. Make this a personal exercise in emergency preparedness. Test battery and other emergency powered equipment, make any modifications necessary to insure full readiness and dependability. No special forms are required for entry but ARRL will furnish convenient reporting sheets upon request. Send for yours and plan to test amateur radio emergency gear in the annual Field Day June 25 and 26. Full details appear in June QST.

-----

Dick Amrich, W3WUY, is waiting for delivery of a new Elmac mobile receiver, which should be in about June 1st. He already has a 10 meter transmitter in the car.

-----

It is with deepest sorrow  
that we announce the death of our  
President and Founder

F. Dawson Bliley

on Tuesday, May 17, 1955

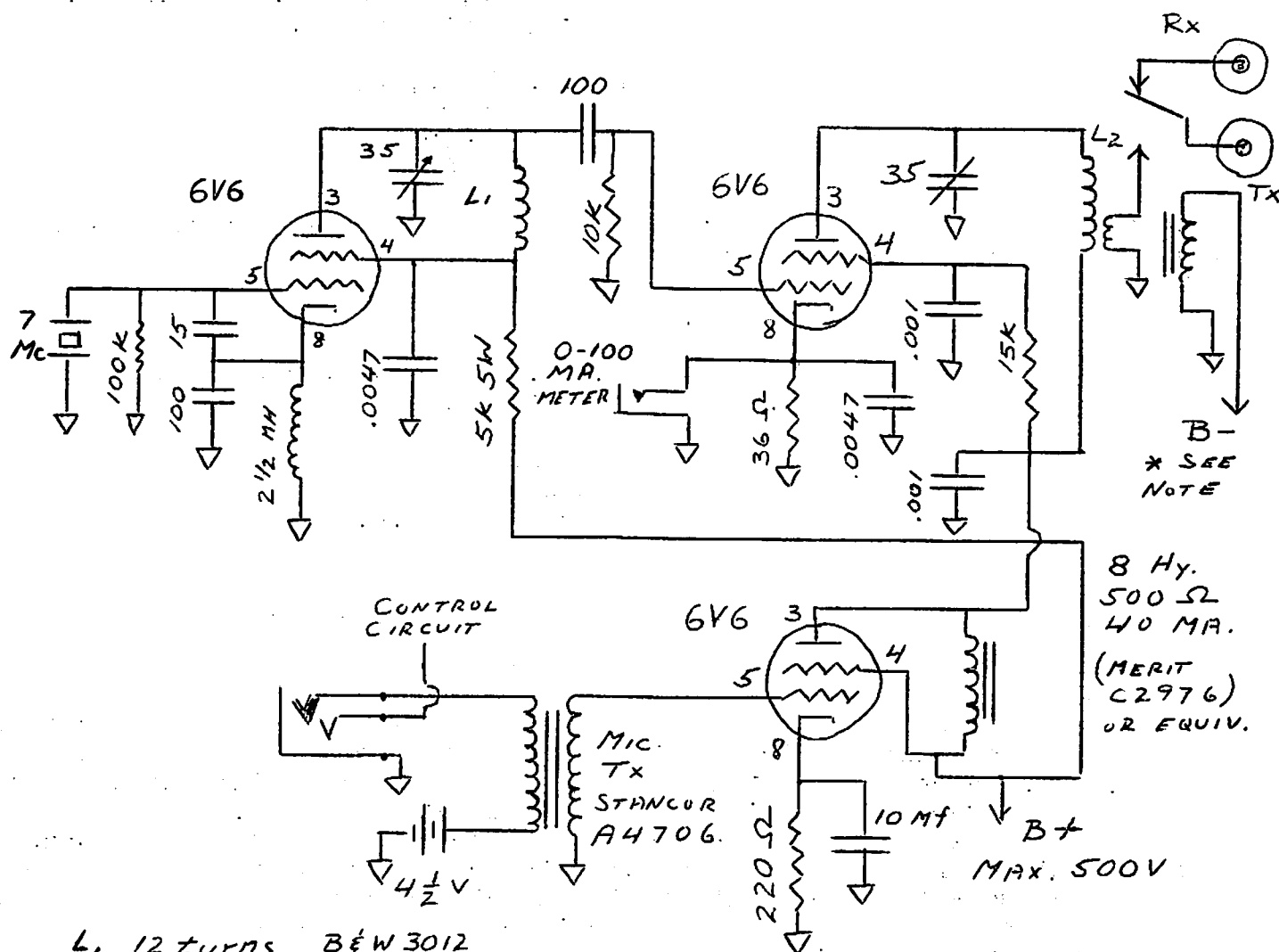
Bliley Electric Company  
Erie, Pennsylvania

# DVRA NEWS

From the Phil Mont Radio Club

"The trend in ten meter mobile transmitters today is simplicity. Each diagram we have received lately seems to point this out. The latest by W3UIX is presented for comparison with others previously printed on this page. This reign of Von's puts out a nice signal as the mobile gang can verify.

"As a mobile club, we should be 100% mobile and with circuits like these there is not much excuse for a member not to have a rig in his car. If anyone is interested we have converter circuits as simple as this rig to build to complete the installation. So let's go."



- L1 12 turns B&W 3012
- L2 10 turns B&W 3010
- L3 4 turns #20 solid insert in coil end of L2 and cement

\* B neg. is carried to Tx Chassis thru relay coil  
Relay coil 4000  $\Omega$  or more



## SWAP AND SHOP

For Sale SCR 522 unconverted for sale. \$25.00.  
Contact Stephan Meyer, W2EQF  
530 William Street  
Trenton, N.J.  
Phone EX 3-0001

For Sale 1 HRO Senior Receiver with general coverage coils 30 Mc. through  
broadcast band with speaker and power supply- \$95.00  
1 600v 200 ma. power supply- \$10.00  
1 VFO and Power Supply- \$15.00  
1 6AG7-807 transmitter - \$10.00  
1 Antenna tuner with relay- \$3.00  
Misc. meters, variable condensers, coils etc. -- Cheap !  
1 40 meter Amphenol folded dipole antenna- \$5.00

Frank V.C. Yates, W2DZS  
58 Wayside Lane  
Trenton, New Jersey  
Phone EX 6-9850

For Sale and Want 1 Harvey Wells 50 watt transmitter TBS-50 Deluxe with APS-50 power  
supply and Bandmaster VFO. Low price.  
Novice crystals - \$1.50 each  
Want A 60 cycle 115 volt a.c. light plant capable of 1 kilowatt  
or better. Will make a trade.

Richard L. Doege, W9RCK/2  
The Raynond House  
Lawrenceville, N.J.  
Twin Oaks 6-0101

---

## CHANGE OF MEETING PLACE

Due to increased operations the Trenton Chamber of Commerce is converting all of their space into offices and hence the space will not be available for meetings. Until a regular meeting place is located, and while the weather continues to be warm all meetings will be held at the shack.

Present plans are for a fireplace to be erected on the club grounds at the shack. Mike Fekete has donated some cinder blocks but we need some more. If anyone has some to spare contact Dick Henrie or cart them to the shack.

We could also use some outdoor furniture at the shack- but no junk please. Contact Dick Henrie on this one too.

## JULY MEETING

As announced above the July meeting will be held at the shack. At that time we will have refreshments in the form of hotdogs. Come along and bring the YL or XYL. Charlie Moore will be in charge of the food and doing the usual fine job.

## DVRA NEWS

### WAS CONTEST RULES

Time: Starting time, 0001 January 1, 1955  
Ending time, 2400 June 30 1955

Frequencies and Emission: Any or all of the authorized amateur bands may be used. Any or all types of emission authorized by FCC regulations may be used or combinations of the same.

Eligibility: All members of the Delaware Valley Radio Association are eligible regardless of where they reside.

Any other licensed amateur residing in Trenton, New Jersey or within a ten mile radius of Trenton are eligible. Judging Committee will decide on "borderline" cases.

Mobile stations may enter the contest, or combinations of mobile and fixed station, provided that no qualifying contacts take place while the mobile unit is farther than ten miles from Trenton.

Verification of Contacts: Winners will be selected on states confirmed by QSL or letter verification of contact. Contest entrants will be given until July 15th to receive delinquent QSL cards from contacts. All qualifying QSL cards and check sheets must be turned in to a member of the judging committee by July 20 1955. No qualifying QSL will be accepted bearing a postmark later than July 15 1955..

For your convenience and to aid the Judging Committee, WAS check sheets are available free at Allen and Hurley, 23 S. Warren St. Trenton. These check sheets must accompany all entries.

Awards: Prizes will be awarded to the three amateurs completing the working of all states. Dates of contacts will determine the first, second and third prize winners.

There will also be first and second prizes for Short Wave Listeners under the same above rules, except verification of states by reception only.

In the case that entrants in either group do not contact and verify the entire 48 states prizes will go in order of most states confirmed.

Prizes will be awarded in August at the Annual DVRA Doggie and Corn Roast. The five winners will be given free tickets to the affair. In the event that this affair is not held the prizes will be awarded at the regular monthly club meeting in September.

Judging Committee: The Judging Committee will consist of the following:

Lester H. Allen, W2CCO, 704 Quinton Ave. Trenton  
William F. Petty, W2HAZ, 777 Chambers St., Trenton  
Edward G. Raser, W27I, 315 Beechwood Ave., Trenton

Members of the Judging Committee will not be eligible for prizes.

Disqualification: Failure to comply with contest rules and/or FCC regulations will result in disqualification. More than one operator per station will also result in disqualification. The Judging Committee will review all cases and their decision is final.

Miscellaneous: Contest entrants who are not members of the DVRA are not obligated to the club in any way.

All entrants should send a note to the Editor of the DVRA NEWS by the first of each month stating the number of states worked and confirmed to date.

#### PRIZES

Amateur first prize:	Static D-104 microphone or Speed-X Automatic Key 100 QSL cards One 807 Soldering pencil Roll Scotch electrical tape Roll hookup wire	Les Allen, W2CCO Bill Petty, W2HAZ Charles Rebman Les Allen, W2CCO Bill Griffith, W2EGE Les Allen, W2CCO Bill Griffith, W2EGE Bill Petty, W2HAZ Charles Rebman Les Allen, W2CCO Bill Griffith, W2EGE
Amateur 2nd prize:	Telechron Electric clock 100 QSL cards One 807 tube Soldering pencil Roll Scotch Electrical tape	Les Allen, W2CCO Bill Griffith, W2EGE Les Allen, W2CCO Bill Griffith, W2EGE Les Allen, W2CCO Bill Griffith, W2EGE
Amateur 3rd prize	Roll hookup wire	Les Allen, W2CCO
Amateur 3rd prize	Pair 866 rectifiers Soldering pencil Roll Scotch Electrical tape Roll hookup wire	Dave Van Nest Les Allen, W2CCO Bill Griffith, W2EGE Les Allen, W2CCO
SWL First prize:	ARRL Handbook Roll Scotch Electrical tape Roll hookup wire	Les Allen, W2CCO Bill Griffith, W2EGE Les Allen, W2CCO
SWL 2nd prize:	ARRL License Manual and How to become a Radio Amateur Roll Scotch Electrical tape Spool hookup wire	Les Allen, W2CCO Bill Griffith, W2EGE Les Allen, W2CCO

The five winners will also be given a free ticket to the DVRA Annual Doggie Roast when the prizes will be awarded.

# DELAWARE VALLEY RADIO ASSOCIATION

## MEMBERSHIP ROSTER

MAY - 1955

Lester H. Allen	W2CCO	704 Quinton Ave.	Trenton 9	EX6-8919	EX3-0386
Richard E. Amrich	W3WUY	39 Mulberry Lane	Levittown	WI6-5378	EX6-1511
Robert E. Bate	K2CLD	1304 S. Broad St.	Trenton 10	EX4-9584	
Lyman Bethke	W2LZA	627 Beatty St.	Trenton 10	EX4-8484	
Barney Boncek	W2QVD	340 Jersey St.	Trenton 10		EX6-6511
Benny Ciavatta	K2CDH	370 Commonwealth Av	Trenton 9	OW5-1623	
Winfield Clark	W2NDO	116 E. Madison Ave.	Collingswd		
James E. Creeden	W2YFT	455 Hamilton Ave.	Trenton 9	EX3-4427	EX4-8181
Samuel Daugherty	W3VUX	34 Liberty St.	Trento	WO8-2627	
Sidney L. Deitz	W2FDE	130 Factory St.	Trenton 10	EX2-7598	
Raymond DeVos	W2TAM	140 Summit Ave.	W. Trenton		
John F. Diesel	W2WOA	489 Chambers St.	Trenton 9	EX2-4594	CY5-7012
Bill Duff	WN3AMF	264 Yorkshire Rd.	Fairlss. H1	WI6-2971	
Mike Fekete		1658 Princeton Ave.	Trenton 8	OW5-4240	
John Ferrara	W2FPT	133 Glendale Drive	Trenton 8	EX3-2775	
Donald G. Field	W2UAE	46 Sunset Ave.	W. Trenton	OW5-1966	EX2-5135
William Griffith	W3EGE	c/o Griffith Elect.	Trenton 10		OW5-8525
William Hannah	W2EUH	107 Newell Ave.	Trenton 8	EX4-3089	EX2-7111
Richard Henrie	W2UPS	100 Tipton Ave. Rt. 9	Trenton 9	JU7-6306	
Harry Ide	W2DZU	Box 249	Linwood		
Glen Jensen		339 Hutchinson St.	Trenton 10	EX3-0640	
Samuel Kale	W2VU	31 N. Lenape Av.	Trenton 8	EX3-8254	
John Kallapos		902 Cedar Lane	Trenton 10	EE2-0650	
Joseph Lewandowski	K2DOR	E. State St.	Trenton 9		
Francis J. Maier	K2BSZ	231 Columbia Ave.	Trenton 9		
Howard McCue	W2LYV	RD No. 1	Yardville	AX8-0819	
Frank Mennuti		211 Kent St.	Trenton 10	EX2-2249	EX3-1517
Charles S. Moore	W2HCR	139 Michigan Ave.	Trenton 8	OW5-9372	
William Petty	W2HAZ	777 Chambers St.	Trenton 10	EX3-3786	EX4-5577
Mike Pilla	K2ART	36 Redfern St.	Trenton 10	OW5-3735	
Frank Profy	W3CHL	907 Radcliffe St.	Bristol		
Edward G. Raser	W2ZI	315 Beechwood Ave.	Trenton 8	EX3-4809	EX6-1561
Charles Rebman		72 S. Olden Ave.	Trenton 9	EX6-6814	EX2-2539
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Herbert S. Spair	K2ASF	Route 33 Box 62	Robbinsvl	JU7-3990	
Michael E. Toth		343 William St.	Trenton 10	EX3-6980	EX2-2539
William P. Virgin	W2JWA	40 Patton Ave...	Princeton		Prin3150
Ken Watov	W3WSK	1002 Buckingham Way	Morrisvil	CY5-5268	
Donald G. Weeks		190 Brunswick Ave.	Trenton 8	OW5-2340	
A.G. Wentzel	W2HX	318 Gardner Ave.	Trenton 8	EX3-4823	
Charles Westwood	W2YGU	1204 Deutz Ave.	Trenton 10	OW5-0310	OW5-4121
Robert A. Worley	W2WI	1936 Riverside Dr.	Trenton 8	OW5-1533	
Frank V. Yates	K2DZS	58 Wayside Ave.	Trenton 8	EX6-9850	OW5-8525
Ken Zimmerman	W2CFL	305 Ardmore Ave.	Trenton 9	EX4-2121	

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TRENTON, NEW JERSEY

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**NEWS**

**D.V.R.A.**

"OT NITE ISSUE"  
(WHY AN OLD TIMERS NITE?)

APRIL  
~~MAY~~ 1955



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VHF Editor  
YL News  
Circulation  
Assembly  
Mobile News

Published on the second Wednesday of each month by the Delaware Valley Radio Association, Incorporated, Trenton, New Jersey.

Club meetings are held on the second Wednesday of each month at 8:00 P.M. in the Chamber of Commerce rooms, Hotel Stacy Trent.



## THE PAST AND THE FUTURE

W2UAF

The number who can boast of having lived in the days of "no radio" are becoming less and less. What a grandstand seat the "old timers" have had in watching the growth of this art which has so changed the lives of everyone. Many of the old timers have contributed much to this growth and their feats have gone almost unnoticed as to recognition for their part in the progress of radio and electronics. To these pioneers we owe much and give little. It is to these old timers that we pay tribute and honor them on the occasion of the Old Timer's Banquet each year.

To have lived through the era of the birth of radio, and its growth to the present level, has been an experience which few would consider less than a truly inspiring drama of man's progress. To have witnessed some of the many firsts that occurred was to be a witness to great history in the making. To have built a crystal detector and then to have actually heard a station in the earphones—what a thrill. Then, for the ham, to have built a spark gap transmitter and to have made a contact with some other ham perhaps just a block away was an unforgettable experience. To have listened to the powerful signals of the government stations and visited them, to gaze in amazement at the equipment and the huge antennas, to have heard and later built a phone station and the thrill of talking to stations more and more distant as techniques improved. To have seen ham radio grow from a handful of men interested in this phenomenon to more than one hundred thousand today is to have been a witness to a technological growth never before seen on this earth.

Just go back a little and pick up a copy of "The Underlying Principles of Radio Communication" copyright 1921 and read that 80 percent of all the energy actually radiated into space for radio purposes during a given time, excluding amateurs stations, was generated by the arc method and to read also that the most powerful station in the world was a 1000 kilowatt arc in Bordeaux, France will cause a person to smile and think how crude that equipment was compared to modern day equipment.

Yes, how crude it was, and how crude are we going to think the equipment which we are using today will seem thirty years from now. The new, but as yet crude, transistor, and the tremendous effects it will have on all communication and electronic equipment in the future. And the atomic battery and how it will change our present concept of our power sources. The impact which television has had on modern day living and where it will lead us fifty years from now.

Yes, those who have lived through the last fifty years have been witnesses to a tremendous advance in the technological world, but those who are going to live through the next fifty years are going to see even greater advances and progress.

Man's intense interest and desire to explore the unknown has always reaped great rewards for humanity, and it is to this end that we all pray that man will continue to progress and that humanity will continue to benefit by the progress.



## WHY AN OLD TIMER'S NITE?

To have lived through the early days of wireless is a great privilege indeed. The old timers still with us tell the story. The thrill of their experiences of the olden days of spark and arc still hang on, and the banding together in gatherings throughout the land to meet on common ground once each year has developed into something quite unique and apart from the ordinary type of hamfest.

Ten years ago the writer came up with an original idea, not certain it would even be a success, that of an Old Timer's Nite Round-up. The idea was presented to the club and the Number One Round-up was off to a good start. Since then the idea has captured the imagination of many others, and now we find Old Timer's affairs being held all over the country and still gaining in popularity.

It has been our privilege to bring to Trenton many wireless pioneers and inventors, whom the average person would be unlikely to meet in his lifetime. Just to name a few, we have proudly presented from our guest table such well known personalities as Paul Godly, Hugo Gernsback, Raymond Hetling, Lloyd Espenshied, John Reinert, Elmo Pickertill, Irving Vermilya, WJZE, Clarence Tuska (co-founder of ARRL), Elman B. Myers, and Henry Wallace McCandless, who built the first audion for Lee Deforest. There are still many more on our list. It is not hard to picture many others who might appear-- Jack Binns, who sent the first GOD distress signal, Jack Hogan, or even the great Deforest himself. It was a great honor indeed to have had with us, just before his passing, Kenneth B. Warner, WJFH, who had dedicated his life to the betterment of amateur radio, and to whom all hams owe a great debt. It is such events as these that make the effort most worth while.

There has been some misunderstanding about who is eligible to attend an OT Nite. The answer is that EVERYONE is most welcome. One does not have to be an Old Timer to enjoy such a gathering. These affairs are not only fraternal in spirit, but educational as well. Each year we have many "Young Squirts" in attendance. They seem to get almost as big a thrill out of the doings as any of the older radio people. Because radio is somewhat of a romantic game, this seems to be so.

So, here's to the early pioneers of radio and wireless, it is to them we owe so much, as they have paved the way to super communications, a great electronics industry, and much fun and pleasure for the radio amateur. Long live OLD TIMER'S NITE!

W2ZM

Effective May 1, 1955 the Editor's address should be changed. All copy and ads for the NEWS should be sent to William P. Virgin, W2JWA  
40 Patton Avenue  
Princeton, New Jersey

We always welcome any contributions in the way of news items, technical articles, hints and kinks, letters to the editor, or what have you.



Special greetings to all visiting mobileers at the Old Timer's Nite banquet, whether you be local or a visitor. We hope you will enjoy reading this column and will certainly accept any new ideas you may have to add.

### Brief History of Mobile Activity in and Around Trenton

No doubt this short resume will not cover half of the facts about mobile activity in the area since the end of World War II but we are limited in our source. I believe the first mobile station on the lower frequencies around these parts was our old sea going friend W2JAG, Pierre Williams, who used a converted SCR 522 on ten meters with a Gonset 10-11 converter and a home made whip. He tried many various types of power supplies and believe me he had some dandies, but like everything else that Pee Wee did, it worked. Lee, W2STU, and some of the boys from the Hamilton Township club were still on the old two and a half meter band using the rigs that were used during the war on WERS. After that period there was a slight pause on mobile activity until about 1950 when hams such as ETV, W2OSS, Charlie, W2YGV, Barney, W2GVD, Ron, W2ZEW, Jake, W2RMC, Bill, W2ZJD, and Walt, W2GYW started the ball moving again. Quite a few Harvey Wells' were in use along with home built rigs varying both in power and design. Due largely to Joe, W3FNL, who gave the sport a shot in the arm with his intercommunity net (we think it was the best one yet) more stations followed, some being W2UPS, W2DOX, W2RYB, W2RGY, W2WOA, W2WLN, W2HX, W2IEQ, W2ZNO, W3GFC, and W3AWL. The Trenton CD net, which functioned for about two years, brought on a few more of the buggy boys, W2SGG, W2SMP, W2IJA, W2QKE, W2LSS, W2AND, W2CEH, W2LYX, W2FDE, W2TAM and W2SDT. These two nets operated on ten meters, while on two meters W2ASQ, W2UNT and W2STU were trying out mobile operation. This was before the days of the communicators, and most of the rigs were built from surplus equipment.

The Princeton boys got the bug with some financial help from their CD council and had about five or six mobile stations on ten. We can think of only a couple at this time, W2KHA Art, W2ATB Howard, and W2WWS. There have been others in and around Trenton who have come on mobile for short periods, W2I-75, W2QIP-75, W2HCR-10, W2AND-10, W2EYF-75, W2GFL-10. Once again we must apologize here to any of the guys we have missed or for any information which we have missed. Only two hidden transmitter hunts have been held in this area to my knowledge. Ron, W2ZEW won the first one and Jack, W2QKE snitted out the hidden transmitter in the second one to win the prize donated by the DVRA. It took Jack just 51 minutes to locate the secret location, and without the aid of any DF equipment! An erratic xtal caused the signals to travel up and down the ten meter band giving the boys some excitement and making it really tough to find the station's location.

Mobile stations have participated numerous times in the past few





years at the Soap-Box Derby races providing time checks and communications between the start and finish lines. Trenton mobilers also took part in a message relay test from New York to Washington and back around 1951. All in all there has been a fair amount of mobile activity in and around the capitol city. Not as much perhaps as the more populated metropolitan areas of New York and Philadelphia but enough to keep us interested in the sport for nigh onto five years.

### Mobile Activity Around Trenton at the Present Time

Two meter activity seems to be the prevailing interest at the time with seven or eight stations actually in the mobile status. Bob, "21IA, uses the familiar Gonset Communicator with a 10" whip on the roof of his Hudson, while both "20YL and "N3AWY are putting out sibs with the SCR 522 transmitter. Jack, "20YL, uses the 522 receiver and Dick "N3AWY pulls them in on a Gonset two meter converter. Doc, "2W0A, Ray "2RLY, and Bee "2HX all use the Communicators and are working to. Earl "2UNT and Dal "2ASQ are calling into the Mercer Emergency Net using homemade transmitters and receivers.

Then there are quite a few of the boys who occasionally bring their Communicators out in the old buggy and work some "250's but are not on enough to actually call them mobiles. Bill, "3W4V is also on two mobile. No doubt we have missed some of the boys as we are not on two ourself and had to dig this information out of Bob, "21IA.

Ten meters is practically nil and finding contacts is really something. "21IA gets out on ten using the Gonset Commander and Super-Six converter and does a nice job I might add. Mac, "2LV, and yours truly "2UPS, are cooking out with identical set-ups, an Elmac transmitter and Gonset Tri-Band converters. The skywires are master mobile 8' whips. Chick, "2RYB also has the Gonset Commander and Tri-Band converter. K2ART, Mike and K2BDK, Gary are mobile with the new Elmac transmitter and receiver. "2CEH gets on occasionally but haven't run into him on the air recently to find out what he is using and the same goes for Jake, "2BMC. We hear that Ray, "21A is selling his Link transmitter and the rest of his mobile station for a very reasonable price. Anyone contemplating mobile operation might drop around to see Ray. Through the underground we hear that Dick, "3UY is planning to go mobile and poke some holes in that new Studabaker. The March issue of QST has two fine articles that should interest the mobile minded ham, one on a DF loop and the other on a field strength indicator. Also, the Q mobile issue is out on the stands and has some fine info in it.

With everyone and his cousin sporting a whip on their cars these days perhaps the ham fraternity should dig up some novel way of distinguishing the brother mobiler from the rest of the pack. Too bad New Jersey hasn't come through with the much awaited license plates. Transmitter hunt anyone?

W2UPS

For Civilian Defense, Federal, State and local law enforcement officials in the interest of National Defense, Public Safety, and Health and the Red Cross.

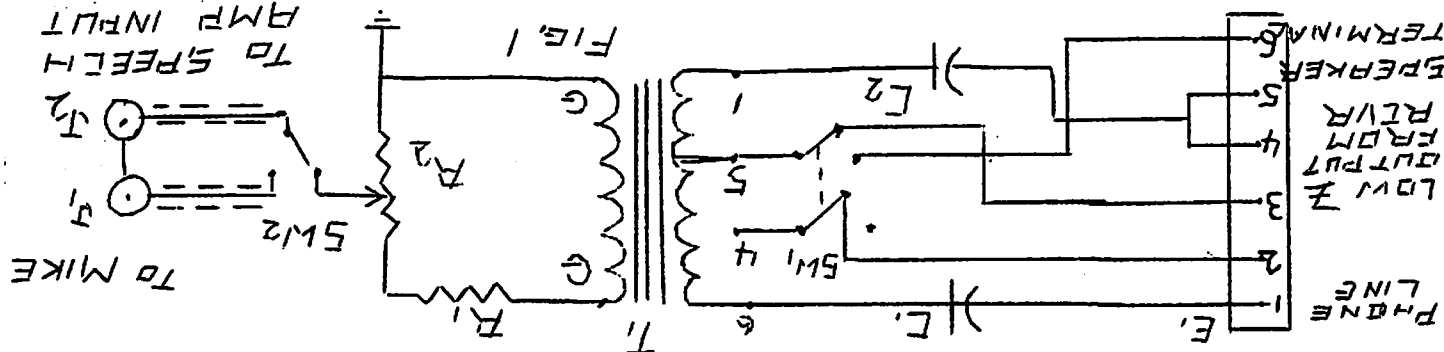
In order to provide immediate identification of amateur radio operators and mobile equipment departments of motor vehicles in other States are issuing amateur call letter registration plates for this purpose.

# PHONE PATCH Courtesy of J. Brumelow and J.A. Greene, AA2USA

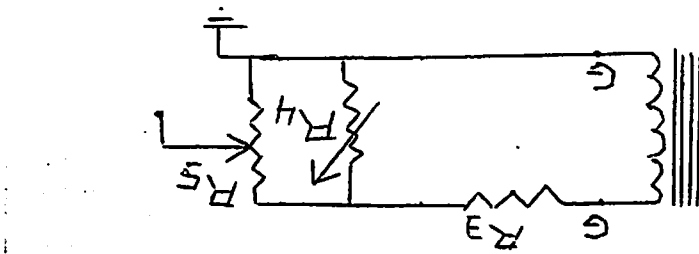
Although many phone patch circuits have been seen recently this one which is in use at AA2USA is being submitted because of its excellent performance, coupled with simplicity of design and the use of readily available components.

Operation is also simple. Throw speaker and mike switches, adjust pot for proper level and patch is in use. Pot eliminates need to readjust speech amplifier when changing from patch to normal operation. Fig. 2 is a modification which may be needed on some transmitters.  $R_4$  is coarse screw driver adjust set to prevent overmodulation when  $R_5$ , fine adjust, is set at the highest input level.

Separate toggle switches have been used as it has been found useful at times to be able to pit only the receiver output on the phone line for audio level adjustment purposes; phone mike will not modulate rig unless both switches are thrown. Only one side of the phone line is broken when patch is not in use, but no difficulty has been experienced from this arrangement. The speaker is also automatically disconnected when the patch is in. The transformer is the secret of the unit and the listed Stancor item should be obtained for best results. Patches at AA2USA were constructed in 7X9X2 boxes for panel mounting purposes.



- E1 6 position terminal
- C1, C2 2 mfd 400 V
- T1, T2 Stancor A4352
- S1, S2 DPDT
- S1, S2 Chassis mount mike connector
- R1 22K, 1/2 watt
- R2, R3 100 K potentiometer
- R3, R4 90K, 1/2 watt resistor
- R4 10K potentiometer



Note: If one side of speaker and output transformer are grounded, Terminal 4, 5 on E1 may be omitted and C2 grounded.

Hans from the New Jersey area may be interested in this copy of the text of the license plate bill which is now in the process of going through the State Legislature.

ASSSEMBLY, No. 184

STATE OF NEW JERSEY

Introduced March 7, 1955 by Mr. Hughes

Referred to Committee on Highways, Transportation and Public Utilities

An Act concerning motor vehicles, and supplementing chapter 3 of Title 39 of the Revised Statutes.

Be it enacted by the Senate and General Assembly of the State of New Jersey:

1. The Director of the Division of Motor Vehicles in the Department of Law and Public Safety shall cause to be issued to each applicant for registration of a motor vehicle, who holds an unrevoked and unexpired official amateur radio station license issued by the Federal Communications Commission, registration plates for each motor vehicle, for registration of which application is granted in the name of the applicant, bearing the official amateur radio call letters and numbers of such applicant as assigned by the Federal Communications Commission in place of the usual markings thereof, in order to aid law enforcement and other officers in the recognition of such amateur radio operators for use in case of public or private need, but only if application for registration of such motor vehicles and for issuance of such special registration plates is made pursuant to the provisions of this act.

2. Application for registration of such motor vehicles and for the issuance of such amateur radio call letter registration plates shall be made in such form as shall be prescribed by the director, and shall be accompanied by proof of such amateur radio station license assigned to the registrant, as the director shall prescribe and by payment of an additional fee of \$2.00 for each registration.

3. Upon revocation or expiration of the amateur radio station license the motor vehicle registrant within 15 days after said revocation or expiration shall notify the director of such fact and the director shall issue new registration and registration plates in lieu of such amateur radio call plates and shall charge the usual fee for the issuance of lost registration plates. If the holder of such amateur radio station call letter registration plates shall fail to notify the director as set forth herein, the director may revoke said motor vehicle registration.

#### STATEMENT

The purpose of this bill is to enable the Division of Motor Vehicles of the Department of Law and Public Safety to issue special registration plates to an applicant who is the holder of an unrevoked and unexpired amateur radio license issued by the Federal Communications Commission. The amateur radio operator is a useful citizen serving his country and community without pecuniary interest in times of disaster, local and national emergencies. His technical skill, communication experience and personally owned mobile and fixed station radio equipment is available

# WAS CONTEST

## CONTEST RULES

TIME: Starting time 0001 January 1, 1955  
Ending time 2400 June 30, 1955

FREQUENCIES AND EMISSION: Any or all of the authorized amateur bands may be used. Any or all types of emission authorized by FCC regulations may be used or combinations of same.

ELIGIBILITY: All members of the Delaware Valley Radio Association are eligible regardless of where they reside.

Any other licensed amateur residing in Trenton, New Jersey or within a ten mile radius of Trenton is also eligible. Judging Committee will decide "borderline" cases.

Mobile stations may enter the contest or combinations of mobile and fixed station providing that no qualifying contacts take place while a mobile is further than ten miles from Trenton.

VERIFICATION OF CONTACTS: Winners will be selected on states confirmed by QSL or letter verification of contact. Contest entrants will be given until July 15th to receive delinquent QSL cards from contacts. All qualifying QSL cards and check sheets must be turned in to a member of the judging committee by July 20, 1955. NO QUALIFYING QSL WILL BE ACCEPTED BEARING A POSTMARK LATER THAN JULY 15, 1955.

For your convenience and to aid the judging committee WAS check sheets are available free at Allen and Hurley, 23 South Warren St., Trenton. These check sheets must accompany all entries.

AWARDS: Prizes will be awarded to the three amateurs completing the working of all states. Dates of contact will determine the first, second and third prize winners.

There will also be first and second prizes for Short Wave listeners under the same above rules, except verification by reception only. In the case that entrants in either group do not contact and verify the entire forty eight states, prizes will go in order of most states verified.

Prizes will be awarded in August at the Annual DRVA Doggie and Corn Roast. The five winners will be given free tickets to the affair. In the event this affair is not held, the prizes will be awarded at the regular monthly club meeting in September.

**JUDGING COMMITTEE:** The Judging Committee will consist of the following:  
 Lester H. Allen, W2CCO, 704 Quinton Ave., Trenton, New Jersey  
 William F. Petty, W2HAZ, 777 Chambers St., Trenton, New Jersey  
 Edward G. Raser, W2ZI, 315 Beechwood Ave., Trenton, New Jersey

**DISQUALIFICATION:** Failure to comply with contest rules and/or FCC regulations will result in disqualifications. The Judging Committee will review all cases and their decision will be final.

**MISCELLANEOUS:** Contest entrants who are not members of the DVRA are not obligated in any way to the club.

An entrant should send a note to the Editor of the DVRA NEWS, William P. Virgin, W2JWA, 40 Patton Ave., Princeton, New Jersey by the first of each month stating the number of states worked and verified to date. This will enable the editor to compile a box-score in the NEWS monthly.

## \*\* PRIZES \*\*

### PRIZE

**Amateur First Prize:** Astatic D-104 Microphone

or Speed-X Automatic Key

100 QSL cards

One 807 tube

Soldering pencil

Roll Scotch Electrical tape

Roll Hookup Wire

**Amateur Second Prize:** Telechron Electric Clock

100 QSL Cards

One 807 tube

Soldering Pencil

Roll Scotch Electrical Tape

Roll Hookup Wire

**Amateur Third Prize:** Pat 866 rectifiers

Soldering Pencil

Roll Scotch Electrical Tape

Roll Hookup Wire

**SWL First Prize**

ARRL Handbook

Roll Scotch Electrical Tape

Roll Hookup Wire

**SWL Second Prize:**

ARRL License Manual and

How to Become a Radio Amateur Les Allen, W2CCO

Roll Scotch Electrical Tape Bill Griffith, W3EGE

Les Allen, W2CCO

The five winners will also be given a free ticket to the DVRA Annual Doggie and Corn Roast, when the prizes will be awarded.



# OFFICIAL BULLETINS

NR. 486 The Federal Communications Commission has acted to open the 50 Mc band to Technician Class licensees effective April Twelfth. In the same action, the Commission decided against opening the 144 Mc band to Technicians.

NR. 487 Amateur radio operations for US citizens are now permitted from Greenland. The Commanding General, North East Air Command, will prescribe rules for operation and will assign US call signs from the block KJ1A to KJ1Z inclusive.

NR. 488 ARRL invites applications for Official Experimental Station appointment. League members residing in any US or Canadian section who are operating amateur stations with definite experimental objective on any frequency above 50 Mc are eligible. Accumulation of data to aid in discussion and knowledge of transmission phenomena peculiar to out higher frequency bands is a broad aim of this appointment. Complete details concerning requirements for appointment and a sample OES Bulletin containing technical information of interest to amateurs who use frequencies above 50 Mc. will be sent upon request.

## SELL AND SWAP

For Sale

Radiant Vibropack for mobile transmitter \$10.00  
Heavy duty 1500/2000 volt filter condensers, per pair \$8.00  
300 watt, 550 volt General Electric plate transformer \$5.00  
Buick and Ford auto radio receivers, either one \$8.00  
Universal mike transformer \$3.00  
Neon sign transformer, 10,000 volts \$4.00  
Pioneer Gen-E-Motor, for mobile rig, 6 volt input, 600 volts, 150 Ma. output  
Naval aircraft transmitter, 35 watts, make PB 75 meter meter mobile rig. \$15.00  
Heavy duty Cardwell transmitting condenser, 500 watts \$5.00

Wanted

Old and odd telegraph and wireless keys, early vacuum tubes before 1921, old time amateur or commercial wireless instruments, books on wireless, catalogs or magazines for historical collection.

Edward G. Raser, W2ZI, Club Historian  
315 Beechwood Avenue  
Trenton 8, New Jersey  
Phone, Export 3-4809

For Sale soon: Trade-In HT-20 Les Allen, W2CCO Export 3-0386

The DVRA NEWS will print ads of a non-commercial nature free of charge. The advertiser need not be a member of the DVRA. Copy must be in the hands of the editor at least ten days before publication.

7/55

# D.V.R.A. NEWS



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*tuned to tomorrow*



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Published on the second Wednesday of each month by the Delaware Valley Radio Association, Incorporated, Trenton, New Jersey.



## DVRA NEWS

July 1955

### OFFICIAL BULLETINS

NR. 499

The FCC public notice of June 1, 1953 and as since revised, in compliance with US treaty obligations, cautions US amateurs not to communicate with stations in Cambodia, Indonesia, Iran, Korea, Laos, Thailand and Viet Nam. The prefixes to be avoided are FI8, 3W8, XW8, PK, EP, EQ, HL and HS.

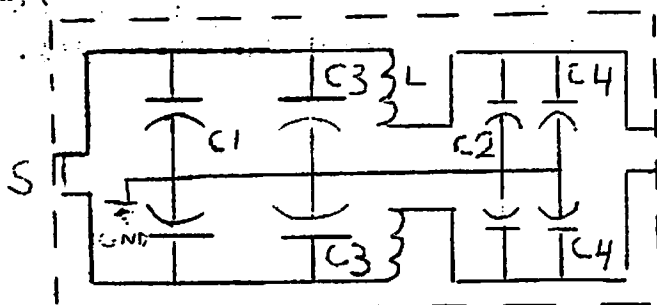
NR. 500

All active amateurs are cordially invited to apply to their Section Communications Managers for League appointment along lines for which they are qualified and interested. The ARRL field organization is dedicated to furthering operating skills and fraternalism among amateurs. The qualifications for and objectives of the various station and leadership appointments are discussed in the ARRL Operating Booklet, available without charge to League members. The CD Bulletin to be sent to appointees announces dates of the CD party, CW July 16 and 17, phone July 23 and 24. All appointees are urged to participate in this quarterly affair and further the spirit of fraternalism.

Continuing a policy instituted last year there will be no issue of the NEWS in August. We want to thank all those who have made contributions during this past year and hope they and others will continue to help when we resume publication with the September issue.

All DVRA members are urged to fill out and return the questionnaires which were mailed out a few days ago. A survey of the results will be given in a future issue of the NEWS.

Keep your RF out of the power line to cut down BCI and TVI. A single filter can be built into the transmitter, or in a separate shielding box. Run a good ground wire to the filter. (Other values of condensers may be used)



- C1 2 x .5 mfd, 600 volt lil cond.
- C2 2 x .1 mfd, 600 volt oil cond.
- C3 .01 mfd mica
- C4 .002 mfd mica
- L Ohmite Dual Pow2r Line Choke
  - 5 amperes 4" long Z-20
  - 10 amperes 6 1/2" long Z-21
  - 20 amperes 8 1/2" long Z-22
- S Flush female receptacle

DVRA NEWS

July 1955

ANNUAL REPORT OF THE ATLANTIC DIVISION DIRECTOR FOR 1954

To the Board of Directors  
The American Radio Relay League, Inc.

Gentlemen:

It is with pleasure that I am privileged to represent the largest division (membership) of the League and submit this report after the first full year as director.

Since January 25, 1954, until January 1, 1955, I have travelled 13, 114 miles on League business, 9314 miles within the Division. In that time I have attended 19 club meetings, some of which were combined meetings of two or more clubs; seven hamfests; and visited with 21 individual members. I have assisted by being present at several legal hearings where local authorities were exercising local rights but were seemingly in conflict with that were considered the rights of the radio amateur. One case was completed in a satisfactory manner by conference. The other, at this writing, was completed locally satisfactorily, but may finally end up in court action. The trips were by no means just for fun but were for the purpose of ascertaining, by individual contacts, conferences, and conversations, the opinions and desires of amateurs in the Division. Letters can never take the place of these contacts. Many things have been learned by me, some of which have definitely changed my thinking, while others only confirmed things already considered. But allow me to say, to represent the Atlantic Division is my responsibility, and I shall do that as nearly as I can ascertain the members' desires, if these desires do not work against the amateur instead of for him. I have met all requests of clubs for a visit up-to-date and, while I cannot promise to do this, I shall do my best, work load permitting.

Without going into great detail and making the report very long, I would like to point out several things which, I believe, should receive consideration. Many of these items have been suggested direct from the membership; others have been modified or perhaps come from my observations.

There must be a return to unity within the amateur ranks, realizing that the amateurs have always represented "Advance in Science", many times showing the way to commercial interests. Let us stop criticizing fellow amateurs because of their choice of mode of operation. The old saying "In Union there is Strength" still holds. Some of the very uncomplimentary remarks transmitted on the amateur bands about fellow amateurs certainly do not give a good impression to some of the non-amateur listening public. We cannot blame some of the public reaction to amateur radio operation if they have heard some of the remarks and names I have heard assigned to fellow amateurs. At the same time, I also believe consideration should be given the other fellow's viewpoint.

The amateur is a very large potential "Voice of America" without the sting of propaganda. In having QSO with foreign amateurs, or on a frequency where the "mail" may be read, would it not be well, instead of talking about rain, snow, wind and heat, to put in casually some remarks on American Home Life having a personal touch; as "The family went to the movies and just returned," or "My children are sitting in front of the open fireplace

studying their school lessons for tomorrow," or "Bill, mu four year ood son just took his collie for a walk." Many such comments could be made casuallu but honestly and would contribute to the ggod will.

Without any intended criticism of any League official, it is quite apparen that many clubs and members so not know what services are available to them at no cost or at nominal cost. Even with the possible increase in expenditure at Headquarters, this information should occasionally be made known through short "strays" in QST.

There seems to be a great need for a novice handbook. This has been brought to my attention by several amateurs and clubs, but I have also felt its need for a long time. The present Handbook has graduated into the realm of textbook or reference book far above the novice level. If ARRL does not publish one some other publisher will. Even if ARRL must depart from its very excellent printing and binding standards to make the Novice Handbook available I point out that it is needed and should be produced at low cost and perhaps even intended to have a short use life to reduce the cost of publication. I, however, question if much can be saved with a departure from quality printing and binding. We all recognize the importance of the Novice in keeping up the rate of gain in amateur radio or even keeping it par. This is one way to get him the correct reading habits. To me this is a must.

As I travel through the Division ; I find a great desire for visits by the Director, SCM, EC and other League officers. I am making as many visits over the Division as mu job will permit. As to the SCM and EC, I have no record of their visits, but they should, if possible, make use of the allowances permitted by the Board for visits and travel on League business and, if necessary, the Board should allow more visits. These should be to various parts of their section with the proper objective in mind and not just another pleasure trip to meet or visit friends.

Here is an item that may require considerable thought. Many of, if not all, the national professional engineering societies have a student grade of membership whereby such university students may, upon certification by a faculty member, receive the society proceedings for no longer than three years at a rate of about one quarter to one half the usual member rate. These students have no voting privileges during that time but they do receive the publication and can attend the section and local meetings of the society. Would such a plan be wise or workable in the ARRL for QST within our membership structure? Would this help to get the high school student to form proper or good reading habits? Also, after leaving high school, would it also help feed him into the regular membership of the League as an active member? The membership should be offered for a maximum of three years at a minimum rate in order to be attractive. This is suggested for consideration; I am not convinced either way at this writing.

A matter hhat has been brought to my attention by a number of individuals and groups within the Atlantic Division is the question of the "Countries List" used in DX contests. Personally, I have not made up an opinion on the matter, but I would like to have a review before the Board to settle what seems to be a protest by a number of the DX minded amateurs and particularly those who are League members.

There has been some criticism of ARRL officers from top down through the SCM and EC and myself. I have considered all as honest criticism and shall continue to do so even though some have seemed very questionable. I have decided in all cases to get the facts and pass these facts aack to the member or person concerned.

I have a very capable group in the Atlantic Division from whom I have quite frequently requested advice. Without the very able assistance of the Vice Director and the assistant directors, my work would be more difficult; I express appreciation to this group who give me their honest opinions and help me very much behind the scenes.

Respectfully submitted:

Gilbert L. Crossley, W3YA  
Director, Atlantic Division

College, Pennsylvania  
March 15, 1955

-----  
From the Annual Report of the Communications Manager  
1954

12. Our time and contacts were divided among all the popular operating bands during the year. Signals from the stabilized oscillators were supplied for all four FMT exercises. The Maxim Memorial Station log shows 5905 contacts. 2107 QSLs were sent confirming an earlier estimate that one of each three contacts is with a new station. WIAW worked 15 new countries completing its DXCC and bringing the total confirmed to 108. Twice-weekly TCC schedules were still going strong. There were checkins with the following nets, CN, CPN, TCFN, Dragnet, MCN, BN, WPA, 1RN, 3RN, 4RN, NYS, and NYSS. WIAW has worked 1463 counties of the 3073 in the USA. 1191 QSLs of the postwar total of 8989 were received in the year. Highest QSL returns were from California (111) followed by N.Y. (66) and Ohio (61). A "Courtesy Award" was tendered our station in appreciation of its work ... this from the SOC Radio Club of Sidney, Nebr. WIAW is the radio operational link with our membership. My last report covered our complete physical rehabilitation from fire damage. Major projects completed this year: replacement of burned card file completed, 6-meter beam rebuilt, desk control panel rewired, 160-meter modulator moved to cellar racks, 15-meter modulator built and installed, necessary new feed-line poles installed. Besides work in all ARRL activities the station was represented in major RTTY group activities and now works s.s.b. likewise. New equipment includes a 75A3 receiver, Band W s.s.b. generator and transmitter, new vertical multiband antenna and a speech clipper.

13. Our station staff, Murray Powell, W1QIS, and Chuck Bender, W1WPR, rate the highest credit for the year's operating accomplishments, their participation in activities and conscientious work to minimize outages. As to coverage (1) VP8AZ (Pt. Lockroy, Grahamland, Antarctica, 65 degrees south 65 degrees west) reported 1-31-55 that "over several months, especially June through August WIAW was regularly received with code practice about 0100 GMT at good strength on the 80 meter band..." (2) From W6NTN: "For better than a year I have as OBS monitored the OB schedule... except for about a month the best reception here in Pasadena has been on 3555..."

9/55

# D.V.R.A. NEWS



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*Published by the*  
***Delaware Valley Radio Association, Inc.***  
TRENTON, NEW JERSEY



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## EMERGENCY PREPAREDNESS

The flood is gone. All that is left is some mud to clean up, homes to be made liveable, bridges to be repaired or rebuilt, but most important of all, to us as amateurs, are lessons to be learned from experiencing such a disaster. We can all see where there was evidence of lack of preparedness for an emergency of the nature which we had in the "big flood".

The spirit of helpfulness was certainly present in most everyone and there were many organizations where on the spot doing tremendous jobs for hours on end. Rescue squads outdid themselves in being wherever needed on short notice, police rerouted traffic and set up roadblocks to keep people off flooded roads, canteens gave hot coffee and sandwiches to weary rescue workers, people helped strangers to move their furniture to higher levels, everywhere there was a feeling of pitching in to help the flooded-out people.

There is no doubt that in most organizations which operated in the emergency a lack of preparedness to meet such a disaster was very evident. Human nature harbors the attitude that "it can't happen here". It hadn't happened like that before in the history of the Delaware Valley and some will say that it will never happen again. How foolish these words sound. Nature is unpredictable and will always be able to humble man with her tremendous power.

Man's only resistance is to be prepared to fight back with everything at his disposal to keep the losses as low as possible. In the time of an emergency organization promotes fast and efficient operation. Without organization a group of willing workers can be seriously handicapped and lives can be lost because someone didn't know how to go about doing a job.

Our hobby is one which can be indispensable in the time of a disaster. It is our duty to the public to provide whatever communications we possibly can. This is our duty in return for the privilege of using the radio frequencies, a privilege given to us by the government which represents the people's interests.

Moreover, it is our duty to provide efficient communications. This is where we can use the organization of our forces. In the past emergency many hams were very active and provided vital communications for many hours. Previous to the emergency none of the hams had any organized plan to follow. The nets which were in operation in this area were pretty much makeshift affairs with no planned operation and operators who had had, in some instances, no net operation before. It certainly can be said that they all did a fine job and they are to be commended for the hard work. It is just that we can learn a valuable lesson for the future and can join in an effort to better prepare ourselves for a really efficient organization which will meet any disaster and meet it with a plan.

In this area we have several opportunities to serve in organizations which which have the aim of meeting any disaster. The cry of these organizations is for manpower to help in carrying out their objectives. Don't hesitate to offer your services to one of these groups, give yourself a place in helping your community to be prepared.

The next one may not be a flood, it may be a big fire, or a tornado, or a hurricane or and explosion. Do your part, the part that only a radio amateur can do.

W2UAE

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DVRA NE..S  
September 1955

## THE AMATEUR RADIO EMERGENCY CORPS

### What It Is and What It Means to You

In registering your station facilities and your availability as an operator with the Amateur Radio Emergency Corps you are not obligating yourself financially or legally. Your registration is simply an indication that your amateur radio facilities and skill are presently available to your community and your country if needed, and that to this end you are willing to participate in organizational preparedness as part of a local and national amateur group.

The ARRL Emergency Corps, as it was first called, was formed by an announcement in September 1935 QST. At first simply a matter of volunteers signing up en masse in the Corps without provision for local direction the AEC quickly attracted considerable favorable attention among amateurs. After its first big test in the 1936 floods membership boomed until it was no longer possible to publish the membership list in QST. In 1937, as a result of the obvious need for local leadership and group preparedness plans felt in several communications emergencies, the new ARRL appointment of Emergency Coordinator was created. In 1945, with the post-war reactivation of the ARRL Emergency Corps, a new section-level appointment, that of Section Emergency Coordinator, was created. In 1950 the name was changed to the Amateur Radio Emergency Corps as a better indication of the coverage and intent of the organization.

The AREC represents the combined efforts of many hundreds of amateur groups, each under its own Emergency Coordinator. Although it is sponsored by ARRL, League membership is not required for registration. All amateurs regardless of their personal affiliations, are urged to support this organized effort to form an Emergency Corps of and by amateurs as amateurs for the purpose of getting prepared and keeping prepared to provide emergency communication for the public and for the nation when, as and if needed in both peace and war.

Registration in the AREC does not require possession of equipment designed especially for emergency use-- nor does possession of such equipment determine whether your membership shall be full or supporting. A "full" member is an amateur who takes a fully active part in local AREC activities; a "supporting" member is one who for any reason cannot do so but nevertheless is in support of the group and will be available as his personal circumstances permit. Thus, there is a provision in the AREC for every licensed amateur.

Your registration, when turned over to your local EC or SEC will add your strength to the Amateur Service in its endeavor to render a continuous service to the nation. We urge you to fill out the registration and turn it over to your EC.

ARRL Communications Department

Write to ARRL Headquarters for your registration form

DVRA NEWS

September 1955

ZI's KORNER  
(By Ed Raser, W2ZI)

Just returned from a vacation trip to the Northwest and Alberta, Canada so haven't had much time to catch up on the "Scuttlebut". Read about the big flood in the Seattle and Calgary (Canada) newspapers, it must have been bad around here. Wonder if the hams were on the job as in the past.

Just received a postal card from our good member Col. Sam Kale, W2VU who reports traveling from one end of Japan to the other, then topped it off with Korea and Okinawa and will stop on the way home to visit his sister in Hawaii. The Colonel sure gets around, he is heading up a GI-TV program in the Far East.

That sure was a hair raising performance by the helicopters during the flood, getting the campers off Wilson's Island below Frenchtown. To think if the flood came two weeks earlier we would have been in the middle of an emergency communications job as W2DOJ at State Police Headquarters had a daily sked with the island. Gene Kiser operated W2DQS for several weeks with W2ZI at the West Trenton end of the circuit.

Glad to see such a nice turnout at the last Club Corn Roast, held at the W2ZQ Shack grounds, up on Wireless Hill. Billie Tomson, W2SUG one of our newer members brought in two more applications for membership all signed and sealed. Nice work Billie.

Incidentally W2SUG's new mobile rig is doing a fine job. He has reported in on several occasions to the New Jersey Phone Net (3900) on Sundays from cities and places far and wide. He was also very busy in CD relief work up along the Delaware at Milford during the flood. Understand the local power company put up two nice 60 foot poles at the base station ... for free. Nice going.

We hear through the grapevine that Don Field, W2UAE our good prexy will soon move to his new QTH somewhere in the vicinity as his present place has been sold. Good luck to ya Don, looks like it's gonna be time for some sort of a party. They also have a new baby girl which makes it an uneven three. How about a boy next time Don?

We hear Bill Petty, W2HAZ, has been on the sick list. Nothing serious I hope, Oml.

Always looking for new recruits to take over a watch at W2ZQ on Sunday's Emergency Phone Net sked. We are badly in need of operators fellas, so how about some of youse guys offering your services to help out? The list is rather small at present but at one time we had ten members signed up, what has happened? If you feel you are qualified to run a 1,000 watt rig like W2ZQ just see W2ZI or Dick Henrie, W2UPS for a check out and we will put you on the list. Ya know fellas it's a real thrill to be able to run a good net and learn the proper procedure. Just ask any of the new lads who have done it recently. They are on the way to becoming good operators. How many of you can say you know the game?

DVRA NEWS  
September 1955

Understand Bill Virgin, W2J A, and his wife are spending the week at Nantucket Island off Cape Cod. Nice country and wishing you a pleasant trip.

Bill Hannah, W2E U H, stuck to his guns during the flood. The family stayed in their house on Newell Avenue even though the waters rose over the first floor. Bill did some fine rescue work along the "Island" with his new motor boat recently finished.

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OFFICIAL BULLETINS

NR 504

The Federal Communications Commission announces that effective July 20, Laos has been removed from the list of countries with which communication is prohibited. Amateurs may therefore now freely engage in communication with KWB stations.

NR 505

ARRL invites applications for its Official Observer appointment. League members residing in any US or Canadian section are eligible. The various classes of Observer appointment include categories for phone and CW checking which require only receiving equipment and individual skill. Especially needed are Observers who can assist the ARRL observer program of identifying any stations of other services that get into our bands so the League can help keep these clear. All interested amateurs are requested to write to ARRL Headquarters for application blanks, a sample OO bulletin and full information on how to qualify for Official Observer appointments.

NR 506

The following are high claimed 1955 ARRL Field Day scores. In Class A club or group portable stations, The Pacific Radio Club, K6BAG, reported the top score of 20200 points. Tri County Radio Association, W2LI, scored 12135 points. Next was W4FU of the Ohio Valley Amateur Radio Association with 18009. Other leading class A entries W9IT 15723, W9AP 15255, W6U 13985, W1OC 13905, W6HS 13743, W6CG 12816, W9PCS 12663, K6DTA 12123, W2CKF 11187, W9KFP 11169, W2VDJ 11160, W6TOI 11111, W6EBN 10800, W3RCN 10764, K2AA 10235, W6OTX 10233. Leaders in Class B, unit and individual portables are W3EIS 6993, W5VRP 5751, W2FBA 5319, K5BLL 4955. Highest mobile totals are W8HFB 4914, W2QAV 4374, W4YI 3821, W3ERA 3740. A more complete listing of high claimed scores will appear in October QST.

NR 507

All amateurs are invited or above 50 Mc are cordially invited to participate in the September ARRL VHF QSO Party. The Party will be held during a 36 hour period starting at 1400 Local Standard Time Saturday September 17, and ending at 2300 Local Standard Time Sunday September 18. Rules provide for certificate awards for the top scorer in each ARRL Section. In addition, a certificate will go to the high scoring Novice, Technician and multiple operator station in each section submitting three or more valid entries. Convenient reporting forms for the VHF QSO Party will be supplied upon request. Full rules will appear in September QST.



DVRA NEWS  
September 1955

NR 508

Canadian Director Reid informs all amateurs of the Department of Transport allocation of the prefix VEØN to amateurs operating equipment on behalf of amateur clubs on board naval vessels. The prefix VEØM will be used by amateurs on merchant vessels. Further information is expected regarding appropriate regulations and frequencies.

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W2HX has purchased a signal slicer and seems to be headed SSB way.

W2IIA is another signal slicer owner. There must be something to this SSB stuff.

Couple of new members in the club: Charley Prescott K2IFK and Lester Mansyckel KN2JTU. Welcome to both of you.

-----

This issue of the NEWS starts off another season and with it the call goes out for help. Every year it is the same thing- we need material for the paper- and every year comes the same result, the same few members supply all the material. We are much indebted to these few for their notes of happenings at the shack, on the VHF bands, among the mobileers, and general goings on. Without them there would be no paper at all, but a little effort on the part of the other members will be appreciated. Among so many active hams there must be considerable news items which would be of interest to others. It doesn't have to be long and it doesn't have to be in polished form, we'll take care of that, just send it in. In particular we would like to have items of a technical nature whether it is complete plans for a kilowatt rig or one sentence in the nature of Hinks and Kinks.

We had hoped to present in this issue a feature article based on the questionnaires which were sent out. A few of the forms were obtained at the June meeting and later thirty six forms were mailed to members who were not present. Of these only twelve filled them out and returned them. In the near future the other members will receive a second form. We hope to get enough back to be able to get a good idea of the interests and activities of the club as a whole.

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Items for the NEWS should be mailed, by the first of the month at the latest, to

William P. Virgin, W2JWA  
40 Patton Avenue  
Princeton, N.J.

All material in this issue was submitted by W2UAE and W2ZI. Thanks fellows.



DVRA NEWS

September 1955

A new ham in the Trenton area is K2PDM, George Hulick, 118 Upper Ferry Road, West Trenton. Congratulations George on mastering the code well enough to get that General Class right off the bat.

K2DZS now has a rig back on the air and can be heard on 80 C. now and then.

UAE is preparing to take down the antennas and move to a new QTH.

ZQ is being heard more on two meters since the purchase of a Communicator.

The New Jersey 75 Meter Emergency Phone Net is being organized to operate daily since many of the members feel there is great need for this organization to handle traffic within the state. It is planned to pass the net control operation around to the members so that each one will be experienced in procedures. ZQ will remain regular NCS on Sunday mornings and as much as possible will be in on the daily sessions. For all you licensed club members, how about helping out on the daily sessions which will be in the evenings? You will hear more about this very soon.

Some hot trades were made at one of the recent Tuesday night sessions up at the shack with such items as gas driven generators, converters, special switches and numerous other items changing hands. For an evening of rag chewing and meeting your fellow hams come up to the shack on any Tuesday evening.

CCO is still plugging away on getting that DXCC certificate. Les has more than half confirmed so far.

W3WUY has an Elmac in his Studebaker now and is heard on ten quite often.

K3CLD picked up a signal slicer and seems to be on his way to going SSB in the future. Bob sure likes the sound of it.

W2TAM has an Elmac in his auto now and is operating 10 occasionally.

W2WOA has refused to allow HX to bore a hole in that new Buick for the 2 meter whip. Don't blame you Doc.

Mike Fekete has been working hard up at the shack on various jobs. The generator now has a very nice vent in the wall.

W2EUB got a picture of his new cruiser tied up to his front porch during the flood in the N.Y. Daily News.

Talked with W2DZU, Harry Ide, down in Lynwood, N.J. from ZQ and he is now sporting a new Johnson K. rig. Really punches a hole through up this way.



11/55

# D.V.R.A. NEWS



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DVRA NEWS  
November 1955

OFFICIAL BULLETINS

NR 515 FCC has proposed, at ARRL request, amendment of amateur rules to permit frequency shifts of any amount less than 100 cycles in radio-teleprinter communication on bands where authorized. Final date for comment is November 28.

NR 516 You are cordially invited to take part in the twenty second ARRL Sweepstakes, November 12, 13, 19, 20. Awards will be given in each ARRL section to the leading phone and cw entrants. Certificates will also be awarded to the highest scoring Novice or Technician in each section where three or more submit logs. Contest rules follow those for 1954 and will appear in QST for November. Special Sweepstakes reporting forms are available upon request.

NR 517 A recent FCC action dealing with single sideband emission has been misinterpreted by some amateurs as applying to the amateur service. The Commission has issued proposals with the objective of eventually requiring radiotelephone operation in the fixed and fixed and mobile services below 25,000 kc to single sideband emission. Contrary to rumors this action does not repeat not apply to the amateur service.

-----  
From the ARRL CD Bulletin Number 36  
(Answers to quix elsewhere in this issue)

1. what is the significance of the numbers 640 and 1240 ?
2. The latest prefix removed from the "banned" countries is \_\_\_\_\_.
3. What six countries permit 3rd party traffic with the U.S. ?
4. To avoid duplicate QSOs in contests, ARRL makes available Operating Aid Number \_\_\_\_\_.
5. Zero admittance is another term for \_\_\_\_\_.
6. A standard test for distinguishing an image from the desired signal in a superhet is by beating it with a VFO or a signal generator. If the resultant heterodyne changes pitch as the receiver is tuned it is \_\_\_\_\_. If the heterodyne remains unchanged it is \_\_\_\_\_.
7. The common 3 or 4 element "plummers delight" type of beam is an end fire array (true or false).
8. The 80 meter National Calling and Emergency frequency is \_\_\_\_\_.
9. Third-party traffic on behalf of U.S. military personnel stationed in Japan and Germany is permitted (true or false).
10. KG1 prefixes count the same as \_\_\_\_\_ for DXCC credit.

## Michael Faraday

Sometimes called the father of the modern electrical industry Michael Faraday lived a life full of achievements in many fields. Although he is perhaps best known to radio amateurs through the unit which bears his name his discoveries were of the first importance in the development of other sciences. To Faraday belongs the credit for discovering benzene, for producing the first stainless steel, for being the first to liquify many gasses, for discovering the laws of electrolysis, and for discovering the laws governing the rotation of the plane of polarized light by magnetism.

Born a blacksmiths son, near London on September 22, 1791, he came from a family which was too poor to keep him in school. At thirteen he became an errand boy in a bookshop and a year later entered an apprenticeship as a bookbinder. The seven year apprenticeship was over in 1812 and he entered into the trade. Those seven years were occupied by more than learning to bind books. They gave him the opportunity to read many of the books which came into his hands and which were in the shop. He soon began going to hear lectures by Sir Humphrey Davey and at one time applied for a job with Sir Humphrey- an application which was rejected.

His real work finally began a few months after the end of the apprenticeship when he again applied to Humphrey and this time was accepted. The job lasted only a few months but he was shortly rehired and at once embarked on a tour of Europe with Davey.

Experiments in chemistry, electrochemistry and metallurgy engrossed the pair upon their return. It was during this period that he performed the experiments leading to many of the discoveries named above.

In 1820 the Danish physicist Hans Oersted announced his discovery of the relationship between electricity and magnetism, and the following year Ampere placed two wire near each other and found an attraction or repulsion of the wires according to the direction of the current in them. These experiments interested Davey and Faraday and they proceeded to verify them for themselves. From the theory of Oersted's that there was a magnetic field surrounding a current carrying wire and from a suggestion of William Wollaston that this might cause rotation of the wire about its axis he proceeded along lines which led to the basic principle of the electric motor. First finding that there was no rotation of the wire about its own axis he reasoned that if the wire were free to move in the field about a magnet when current flowed then the wire should rotate around the magnet. A simple experiment soon confirmed this. There was a misunderstanding about whether Faraday had used Wollaston's idea without credit but actually Faraday had misinterpreted Wollastons idea to mean rotation about the axis of the wire. This misunderstanding was cleared up and when Faraday was nominated to the Royal Society in 1824 he was supported by Wollaston.

For a time Faraday dropped his work in this field and returned to chemistry but throughout this period an idea was running through his head. If an electric current could yield magnetism could not a magnet yield electricity? In 1831 he again dropped the researches in chemistry and turned to this problem. Within a single day he found the answer which put him on the right track. He had not previously grasped the idea that it was the motion of the electric current in the wire which caused the magnetism. On August 29, 1831 he suddenly hit upon the proper approach. By the middle of October he was able to produce a continuous current and thus had the first generator. Claims of others to be first were later shown to have been performed after hearing of Faradays experiments.

His later years were spent in experiments designed to show the relationship between gravity, magnetism and electricity, experiments which failed but did not shake his faith that such a relationship existed. He was thus one of the first to have an inkling of a unified field theory and to attempt to demonstrate its existence. He died in August of 1867.

DVRA NEWS  
November 1955

Code Practice

For the benefit of those who wish to brush up on their code here are some schedules of selected stations, in addition to the regular WIAW schedules.

Station	Location	Speed (wpm)	Freq. (kc)	Time	Days
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Amateur Practice Transmissions

WIACT	Fall River, Mass	5-7	3545	1900EST	M-Th-F
W2HEI	Hillburn, N.Y.	5-18	3950	1400EST	SSn
K2IBC	Avenel, N.J.	Beginners	3675	0730EST	SSnHol
W2NRM	Lodi, N.J.	3-8-15	1880	0715EST	M-F

Naval Reserve Stations

NDA	Boston, Mass.	14	2484	2015EST	MT-Th
NDB	Brooklyn, N.Y.	10	2916	2015EST	MT-Th
NDC	Norfolk, Va.	10-15	3490	2000EST	MT-Th
		6-10	"	2100EST	"
NDM	Washington, D.C.	25-32	3415	2020EST	Mon.
		8-16	"	2135EST	"

MARS Transmission Schedules

WAR/AIR	Washington, D.C.	25-20-15	3497.5	2000EST	Mon.
		"	6997.5, 144052300	EST	Mon
			20994, 27994		

Press Schedules

The following schedule of press transmissions is fairly constant. Such transmissions copied for code practice may not be divulged except to the addressee.

WSC	New Jersey	25	4353, 6350, 8430, 11175	2318	EST
WSL	New York	25	4343, 6260, 12997.5	2318	EST
WHD	New York	25	8502, 13033.5	1400	EST
WNU	New Orleans	25	6300, 11235	1900	EST
"	"	25	" "	1015	EST

Don Field, W2UAE, has moved to a new QTH near Lawrenceville. He's out in the country with lots of room for antennas- center fed at that.

We see in QST that W1YOU has left the hills of Connecticut and moved to New Jersey where he hopes to become K2YOU.

JWA has finally gotten around to starting work on the new rig.

Ed Raser was a guest of the Antique Wireless Association in Rochester on October 13th.

## DVRA NEWS

November 1955

### Answers to Quiz

1. Conelrad frequencies; the only broadcast frequencies to be used during air raid alerts.
2. HS, Thailand
3. Cuba, Canada, Chile, Peru, Ecuador, and Liberia
4. Six
5. Infinite impedance
6. (a) image, (b) desired signal
7. True. Direction of fire refers to the array itself rather than to the individual elements.
8. 3550 kc.
9. False
10. OX, Greenland

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Special attention is directed to the following Official Bulletin

NR 511

FCC requests ARRL to remind amateurs that Section 12.113 of amateur rules requires that sideband frequencies resulting from keying or modulation must be confined within the authorized amateur band. FCC indicates this means internal sub band edges as well as overall band edges. An amateur station using radiotelephony for example should make certain its carrier is sufficiently removed from authorized phone band edges to confine sidebands within the authorized phone band. Details are in October QST.

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We again remind all hams that Sell and Swap ads will be carried free in the NEWS as long as they are of a non-commercial nature.