ARTS

TAPE Follows... HOLIDAY ART FROM BEEP WØBP MINNEAPOLIS
FIFTH ANNUAL NATIONAL RTTY DINNERS will be held in New York City on March 23 (Monday). Location is the Stonewall Inn (private dining room), 53 Christopher St, New York 14, N Y (Watkins 9-9385 or Watkins 9-9732). This is a few steps from 4th Street and 7th Ave (7th Ave subway or bus to 4th St). Send seven dollars for reservation to Clay Cool W2EZ, 443 W 47th Street, New York 36 or to Carl Daniels W2ODA, 16 Carlton Terrace, Rutherford, N J. (Clay's phone is New York Judson 6-1958, Carl's phone is Rutherford (NJ) WB5-1903). Please make reservation before March so proper planning may be accomplished. Indicate your choice of menu: 1) Broiled Virginia Ham, Hawaiian; 2) roast spring chicken with apple sauce; or 3) London broil, pan gravy. Doors will open about 7 pm, dinner about 8 pm.

Please forward an abstract of any techtalk you can give, so that you may be programmed. Main DOORPRIZE will be a MODEL 26 printer or equivalent. GUEST OF HONOR will be CAIRD ROBERT CLLEMENTS, W2TOK, the YOUNGEST RTTYER. Bob, nephew of W9QLR, is active on the air and is a builder—all gear is homebuilt (mostly do-it-yourself kits) except his Model 26, and he has reconditioned that down to about the last nut and screw!

The location this year has plenty of elbow room; a PA system (the better to hear with!); and even a piano in case anyone wishes to entertain on ivory keys. MASTER-OF-CEREMONIES will be Carl W2ODA, an active RTTYER on 80M and 2M.

We have seen the SIXTH Annual Dinner announcement in 5 magazines but a recount shows that it is the FIFTH (effects of Old Crow!). So, as corrected above, please consider it the FIFTH!

If anyone will be in town SUNDAY pm March 22 and wishes a tour of local RTTY shacks, let us know.

New York City is 3-1/4 hours from Hartford and Baltimore, 2 hr from Camden-Philadelphia, 4-1/2 hr from Washington, and 5-1/2 hr from Boston by Trailways bus.

P S: For minors under 18, reservation is $3.50.

BOSTON RTTY GET-TOGETHER will take place on Saturday March 21st at the Smith House, Cambridge, Mass. Merrill Swan W6AEE and other notables of the amateur RTTY world are expected to be present. For reservations, send four dollars to Tom Howard, Box 19, Boston 1, Mass. For further information also contact Tom.

(cont'd fm p. 4)

Bill Henn
See KN2C/OWD

K2F/C / AA2AS
Douglas B. Couse Sr
PO Box 38
Acra, N Y

W2TOK Bob / A2TOX
Caird Robert Clements
331 76th St
Brooklyn 9, N Y
ARTS 53-2

K2ZSE
Frank A. Rosolowski
437 Skiff Drive
Syracuse 11, N Y

W2ZM/IM
Capt. Carlsen
SS Flying Enterprise
17 Broadway
New York, N Y

Amateur Radio-
Teletype's Bulletin
No. 53 Jan-Feb 1959

Every effort is made to make these listings complete and correct. W2's are listed in ARTS#52, etc.—Any ten issues will thus contain a complete QTH listing. ONLY active RTTYers are listed. Omissions and corrections invited. de W2EZ
<table>
<thead>
<tr>
<th>Callsign</th>
<th>Name</th>
<th>Location</th>
</tr>
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<tbody>
<tr>
<td>W3AAAB</td>
<td>Russell L. Parker</td>
<td>8713 Gilbert Place</td>
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<tr>
<td></td>
<td></td>
<td>Takoma Park, Md</td>
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<tr>
<td>W3ACJ</td>
<td>Arthur L. Jerome</td>
<td>2834 Elliott St</td>
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<td></td>
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<td>Baltimore 24, Md</td>
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<td>W3AFR</td>
<td>George M. Hannah</td>
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<td>W3BGN</td>
<td>Edwin R. Gibson</td>
<td>813 Green St</td>
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<td></td>
<td></td>
<td>California, Pa</td>
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<tr>
<td>K3BYA</td>
<td>Kern M. Bowyer</td>
<td>13 Rock Manor Av</td>
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<td>Wilmington 3, Del</td>
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<td>W3CA</td>
<td>Ken</td>
<td>Kendall H. Speer</td>
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<td>W3CR0</td>
<td>Dick</td>
<td>Richard Urian</td>
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<td>256 Parham Rd</td>
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<td>Springfield, Pa</td>
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<tr>
<td>W3CYT</td>
<td>Roy E. Skipton</td>
<td>3103 Shepherd St</td>
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<td></td>
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<td>Mount Rainier, Md</td>
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<tr>
<td>W3CZE</td>
<td>R. E. Macomber</td>
<td>PO Box 68</td>
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<td></td>
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<td>North Beach, Md</td>
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<tr>
<td>W3EJMC</td>
<td>Fred W. Albertson</td>
<td>3753 Jenifer St NW</td>
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<td>W3FMC</td>
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<td>W3FU</td>
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<td>John Towne</td>
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<td>A3FU</td>
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<td>736 S Salisbury Blvd</td>
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<td>Salisbury, Md</td>
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<tr>
<td>W3GIV/5</td>
<td>Allen J. Daniel Jr</td>
<td>2504 Northside Dr</td>
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<td>Bossier City, La</td>
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<td>W3IVL</td>
<td>Bill</td>
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<td>W3LMC</td>
<td>Howard W. Snyder</td>
<td>4330 Glenmore</td>
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<tr>
<td>W3LWQ</td>
<td>Wilbur A. Rimer</td>
<td>456 Dippold Av</td>
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<td>W3MHD</td>
<td>HR*</td>
<td>Frank C. Gibson</td>
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<td>W3NRQ</td>
<td>R. E. Quenstedt</td>
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<td>APO 500</td>
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<td>W3MWV</td>
<td>Erwin Lange</td>
<td>342 Prospect St</td>
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<td>W3NDE</td>
<td>(W3KVR)</td>
<td>Henry J. Brock</td>
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<td>W3NEP</td>
<td>James A. Cunningham</td>
<td>226 Church St</td>
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<tr>
<td>W3NIV</td>
<td>W. Paul Egleston</td>
<td>405 S 3rd St</td>
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<tr>
<td>W3NQA</td>
<td>Richard A. Gilson</td>
<td>201 Pioneer St</td>
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<tr>
<td>W3NQC</td>
<td>Donald F. Esslinger</td>
<td>2715 Bauernwood Av</td>
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<td>W3NQV</td>
<td>Russell E. Gough</td>
<td>5625 Valley View Dr</td>
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<td>Bethal Park, Pa</td>
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<td>K3NSS</td>
<td>Special Services Div</td>
<td>USN Radio Station (R)</td>
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<tr>
<td></td>
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<td>Cheltenham, Md</td>
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<tr>
<td>W3QGD</td>
<td>George R. Sharp</td>
<td>3919 Brisban St</td>
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<tr>
<td>W3PKF</td>
<td>Ed</td>
<td>Charles E. O'Bryon</td>
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<tr>
<td>W3ZLG</td>
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<td>Harry Rappaport</td>
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<td>Frank C. White</td>
<td>2706 Harmon Rd</td>
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<td>W3ZPA</td>
<td>Red Cross</td>
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<td>W3ZLQ</td>
<td>Lee J. Dawson</td>
<td>930 H St</td>
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<tr>
<td>W3ZBH</td>
<td>Now K2QGH</td>
<td>6608 Vernon St SE</td>
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<td>Washington 21, DC</td>
</tr>
</tbody>
</table>
W3TCQ HR* Robert C. Treadwell, Jr.
530 Shipley St
Seaford, Del

MARS RATT  A3USA
HQ, 2nd Army
Bldg 4659
Ft George G Mead, Md

W3UWM Ken
Kenneth W. Harris
127 Crescent Dr
Pittsburgh 28, Pa

W3VU Edward E. Jones
407 Lincoln Av SW
Glen Burnie, Md

K3WAL Det 2, 2332-3
Carnegie Institute of Technology
Pittsburgh 13, Pa

W3WG Boyd King
Prince Frederick, Md

W3WRE Louise HR* %
Mrs W. F. Moreau
639 Russell Av
Johnstown, Pa

W3WTW Robert B. Blackwell
1366 E Capitol St
Washington, D C

W3YRB Bill HR* %
W. W. Blessing
92 Oneida Rd
Camp Hill, Pa

W3ZCS Robert Rhule
7447 Race St
Pittsburgh 8, Pa

W3ZZJ Now K60I/1

W3ZJT W. J. Futch
RD 3
Wyoming, Pa

W3ZYK HR* %
Harry L. Metzger
Box 66
Mechanicsburg, Pa

W2SSS/3 John J. Schueler
4706 Norwich Rd
College Park, Md

W4ZPZ/3 lst Lt Neal Sheffield
2151-1 SU Dental Det
Aberdeen Proving
Ground, Md

KL7HL/W3 Albert Jason
FCC Box 31
Laurel, Md

Wade H. Lockey
4513 Old York Rd
Philadelphia 40, Pa

AIR/WAR MARS
Room BE-1000
The Pentagon
Washington, D C

James P. Mickelson
RD 1
Tidioute, Pa

James A. Mose
Main & Hall St
Box 131
Sharpsburg, Md

W3WRE is xyl of W3WRC
W3ZYK xyl is W3BGI
W3YRB xyl was WN3GOU

* HR = Listed in Ham
Register 1958.
Ham Register is $5
via W3VKD
Art Lewis
RD 2
Indiana, Pa

W2 CORRECTIONS
SEE ARTS 52

W2DMY Otto Mildner
241 River Vale Rd
Westwood P O, N J

K2DOH Bob
Robert G. Stoeber
22 Stephen St
Montclair, N J

W2HDQ Hank
Henry S. Pustarfi
9 Norman Ave
Lake Hiawatha, N J

W2IGX John I. Stockwell Jr
13 Columbus Ave
Montclair, N J

K2IRB Umberto A. Botticelli
173 High St
Nutley, N J

K2IZD DELETE
W2JCM HR* John R. Litfin
Gen. Del.
Landing, N J

K2KGB Larry R. Cohen
100 Brook Ave
Passaic, N J

ex-KN2KLY DELETE

K2LWI Willie
Rolla C.

Williamson Jr
RD 3
Clay, N Y

W2QGM Sid
Sydney N. Mitchell
37 Yahara Ave
Rutherford, N J

KN2OWC / KN2OWD
Bill Henn Sr / Jr
161 Menahan St
Brooklyn 21, N J
(cont'd on p. 2)
The circuit described has been in constant use at W2ODA since joining the RTTY ranks over a year ago. It can be built in a separate Minibox or directly incorporated into your present loop circuit. There is only one switch used and that is the SEND-RECEIVE toggle switch S1 mounted in the blank plate on the right side of the Model 26. Operation is as follows: With the switch in RECEIVE, the converter supplies 60 ma loop current on MARK signal. The RC network across relay K1 determines time delay of closing motor contacts. A normal SPACE signal will immediately key the selector magnets but have no effect on K1 due to RC network. SPACE signals longer than 1 to 3 seconds will give the charge on C time to leak off, thus opening motor contacts. Relay K2 follows the signal and its contacts can be used to key an AFSK oscillator for relaying, or may be used for keying a reperf.

On SEND, the converter is disconnected and the local "battery" supplies the 60 ma loop current. Operation of the keyboard gives local printer copy, and K2 keys the transmitter. The reversing switch S2 is used as necessary.

A nice feature is that when the fellow you are receiving sends his last character, you flip your switch to send so that his CW will not affect copy, and (after listening for any break-ins) you are ready to throw your carrier on and reply.

Some have questioned the status of the new phase-shift systems. Let's take a look at it. A type emission (an emission with absence of any modulation) cannot be distinguished from F. The fine point is that A is a carrier that is not modulated in amplitude, whereas an F signal is one not modulated in frequency! This is like the man who could not stop beating his wife for the reason he had never beaten her! For practical purposes a signal not modulated may as readily be labeled F as A.

Of course F signals cannot be used on amateur frequencies below 51mc. However, we do enjoy F1 emission within at least segments of all amateur bands (excepting 160M).

Now, let's look at our phase modulation telegraph signals. They are modulated for purposes of communication, therefore they are not a A type emission (neither A nor F). How shall we classify the emission?

According to Atlantic City 1947 Treaty (to which USA is signatory) an F type emission is designated as frequency OR PHASE modulation. (This designation is dittoed in the USA in ACP 121-B, 1 July 1953 and other publications.) Thus, phase-shift telegraphy is an F1 type emission and permitted to amateurs by FCC regulations in the F1 segments of the amateur bands. Frequency deviation is ZER0, which is surely well within the 900 cycles maximum permitted! The FCC regulations contain no restrictions as to the amount of phase shift used by amateurs.

In consideration of the few monitoring receivers able to monitor phase-shift telegraphy, amateurs using this method may be expected to be polite enough to use Al emission for Morse signing!
*ADJUST BIAS POT. FOR 30MA.
*ADJUST LOOP POT. FOR 60MA.

K1 ANY RELAY THAT PULLS IN AT 3MA
K2 215 OR 255 POLAR RELAY
T1 STANCOR PA8421, 150V 50MA, 6V 1A
C1 40UF 250VDC
C2 2000UF 15VDC

W2O DA "AUTOSTART" CONTROL

ARTS 53-6
TELEPRINTER EQUIPMENT FOR SALE TO AMATEURS FOR AMATEUR USE ONLY.
Waiver required for printers and perforators. Except as noted, price
includes packing charge. Money promptly refunded for items out of
stock. Condition good or as noted. These prices do not permit com-
plete overhaul of equipment—any broken or missing parts supplied.

MODEL 14
Keyboard ........................ $35
Printer cover ................. 20
Typing unit, sync motor. 45
Typing reperf (price depends
on condition, inquire)
Motor, 115vac sync w/base. 22
Motor, ac governed, used .. 5

MODEL 15
Complete, w/sync motor ... $115
" w/ ac governed motor .... 100
Keyboard ...................... 12
Printer cover ................. 20
Typing unit .................. 50
Motor, 115vac sync w/base. 22
" ac governed, w/ lamp
and switch, new ....... 10
Base, w/ sync motor ......... 40
Table, wood (FOB NYC) .. 5
Table, steel ($3 packing). 17

MODEL 19
Complete, w/ sync motor and
Table ......................... $400
Keyboard perforator. ... 110
Power supply, 800ma dc, used
good ($5 packing). .... 25

MODEL 26
Complete, w/sync motor, com-
communications keyboard (no
fractions)(FOB NYC) ....... $75
Keyboard ..................... 25
Motor, 115vac sync ......... 22
Printer cover ............... 10
Typing unit, w/sync motor 40

TAPE PERFORATOR, 5-unit code,
complete w/ tape cover, end-
of-line indicator, and
paper holder ............. $47

TRANSMITTER-DISTRIBUTOR
w/ sync motor, xclnt condx . . 125
TYPE MDX, approx 4x5x5",
requires motor and gear,
technical details on
request, new .......... 45
used good ........ 30

POWER SUPPLY (all 110vac to 110vdc)
Model 19, used good, 800ma
($) for packing) .......... 25
Rectifier supply (WE) 120ma
cont duty ($2 packing) . . 10
Rectifier RA-87, 400ma, new $25

FREQUENCY SHIFT CONVERTER Group
AN/URA-6, dual diversity, includes
CM-14/URR and 2 CV-57/URR in
rack cabinet .................. Comparator CM-14/URR, provides
diversity for 2 CV-57/URR.
Frequency Shift Converter CV-57/URR
accepts IF freq 395 to 475kc, AFC,
60ma TT loop output plus tone
keyed output ................ PRICE AND CONDITION ON REQUEST

POLAR RELAYS
205FB xclnt condx .......... $4.00
215A xclnt condx ........ 4.75
Socket for 215A / 255A, new 1.00
228A .......................... 1.00
255A xclnt condx .......... 5.75
D91711 xclnt condx ....... 4.00

PARTS, new 50% off, used good 60%
off. Models 1-A, 1-B, 14, 14 re-
perf, 15, 25 perf, 19, 20, 24,
24-A, 26, 28, Wheatstone or Klein-
schmidt Morse perf, TD

FELICIANO I. ESTEBAN
W 2ZKV
84-24 – 57th AVENUE
ELMHURST 73, N. Y.

Phone Illinois 8-9691
OUR EMBLEM: THE EDITOR OF THIS BULLETIN MANY YEARS AGO HAD THE EMBLEM (LEFT) DESIGNED EXCLUSIVELY FOR THIS BULLETIN. THE ARTIST WAS PROPERLY COMPENSATED FOR THE DRAWING. THIS EMBLEM HAS BEEN USED EVER SINCE AS THE "TRADEMARK" OF THIS BULLETIN. NO ONE ELSE HAS THE RIGHT OR PERMISSION TO USE THIS EMBLEM, WE NOTE A RECENT ATTEMPT BY A PAID COLUMNIST IN ANOTHER PUBLICATION (NOT OURS) TO IMITATE OUR EMBLEM, AND BY SO DOING TO TRADE ON THE PRESTIGE, GOOD WILL, AND POPULARITY OF THIS BULLETIN. THE PUBLISHERS OF THIS BULLETIN CONSIDER THIS COUNTERFEITING OF OUR EMBLEM TO BE THE LOWEST FORM OF THIEVERY AND PLAGIARISM.

PUBLISHED FOR ALL RADIO AMATEURS INTERESTED IN RADIOPRINTER, RADIOPHOTO, AND AUTOMATIC RADIOTELEGRAPHY, SUBSCRIPTION RATE: $3.00 FOR 12 ISSUES TO U.S. ADDRESS OR TO AMATEUR RADIO FOREIGN ADDRESS. NEWS, RTTY TECHNICAL INFORMATION, COMMENTS, CRITICISM INVITED. ADVERTISING RATES ON REQUEST. RED INK MARK TO THE LEFT INDICATES THAT YOUR SUBSCRIPTION HAS EXPIRED, OR IS ABOUT TO EXPIRE, AND YOU SHOULD RENEW PROMPTLY TO CONTINUE RECEIVING THE BULLETIN. PLEASE MAKE CHECK OR MONEY ORDER PAYABLE TO AMATEURS OR THE PUBLISHER, CLAY COOL. TO INCREASE THE SIZE AND CONTENT OF THIS BULLETIN WE MUST INCREASE CIRCULATION —— URGE YOUR FRIENDS TO SUBSCRIBE. FREE SAMPLES OF THE BULLETIN WILL BE SENT TO INTERESTED AMATEURS ON THEIR, OR YOUR, REQUEST. KEEP 'EM PRINTING!