Exceeding all the hopes and expectations of its originators, the first annual dinner-dance of the BARC turned out to be the most successful “kick-off” event any club could ever hope to have. Forty-three hams and guests gathered at The Alps Lodge last Feb. 14 to enjoy a delicious chicken dinner, complete with flaming dessert and all the trimmings, and to relax by dancing to the strains of the local platter spinner.

The ladies looked lovely with their frosh and colorful carnation corsages and the gentlemen were treated royally with after-dinner cigars.
The main event of the evening, other than the dinner, was the awarding of the QSO content prizes and introduction of new officers and committee chairmen.

John, KØCEZ, presented the prizes to QSO contest winners. First prize, a new call book, went to Gene, WØIA. Second and third prizes, two and one ARRL Log, went to John, KØCEZ and Bill, WØOMQ, respectively.

KØCEZ then introduced the new president, Jerry, WØCHM, who urged continued support of the club and it’s activities on the part of the club members and extended an invitation to all interested parties to become members of the club.

KØCEZ then introduced the vice president, Gene, WØ1A, the secretary-treasurer, John, WØRRV, and the activities manager, John, KØCEZ. Following appropriate comments by these officers, the new chairman of the various committees, were introduced. These chairman and their committee members are listed elsewhere in this issue. The evening was rounded out with dancing by one and all. Special thanks are due to Mrs. Peterson, of The Alps, for preparing such a delicious dinner and to KØCEZ, WØRRV and WØFQK, for planning and making the arrangements for this very successful event. It can be safely said that everyone in the club is looking forward to a repetition of this event next year.

HELP! HELP!

YOUR PUBLICATIONS COMMITTEE NEEDS NEWS ITEMS FOR THE BARC’S BARK. Send along those choice items of news to the Publications Chairman, Jack Quinn, or bring it to a club meeting and hand it to Jack in person... We want to know what you are building or how the new mobile operates.

HAM LICENSE PLATE NOW BEFORE SENATE

The Colorado auto license plate bill for amateurs has had its second reading before the state Senate and can no longer be amended. It comes up Monday, March 4th, for the third and final reading, after which it will be put to voice vote. If passed, it will go to the governor for signature. It seems that he is willing to go along if the Senate passes the bill.

Senators Cheevers and Johnson of Pueblo, and Representative Kelly and Rex Howe have all worked long and hard for the passage of this bill and our thanks to them – win, lose or draw. By the time you read this, we may know the outcome, so consult your Monday paper.

ADDENDUM TO CLUB ROSTER

Since our last issue, three new members have been added to the club roster. Welcome to the following hams:

Franklin, Robert O., WØKXE
240 30th St. HI 2-6391

Joska, James S. W1WAL/Ø
150 So. 35th St. HI 2-0631

Silberstein, Richard WØYBF
3939 No. 19th St. HI 2-5059

QSO CONTEST

At the dinner-dance get together last month, the winners of the recent BARC QSO contest were announced and prizes were awarded to the top three scorers. In all, 7 logs were submitted to the contest committee and these entries represented some 400 QSO’s in a total operating time of 87 hours.
Gene, WØIA, surprised no one by coming up with 1785 points to cop first place in the contest. (119 contacts and a multiplier of 15). With this tidy little figure, he won the premium prize of one new Call Book in which he can hunt for the QTH’s of all those conspirators. The second prize of two ARRL logs (in empty and/or like-new condition) was awarded to John, KØCEZ, who amassed a total of 725 points (his multiplier was 18). Bill WØOMQ, completed the trio in the winner’s circle by accumulating a score of 670 points (multiplier of 11) and for this effort he was awarded one ARRL logbook (unused).

Those who entered the contest thoroughly enjoyed it and felt that it was a very worthwhile event. When are we going to have another one, Norm?

* * * * *

After a long absence from the air, we were very pleased to hear Bob Franklin, WØKXE, on the BARC Roundtable. Welcome back, Bob, and let’s hear from you more often.

OUR PREXY SEZ:

RE: THE QSO CONTEST

Elsewhere in these pages is a report on the statistics of the BARC QSO contest. This was another “first” on the part of the club for the hams in this area and our Activity committee promises that bigger and better contests of this kind are in store for us this coming year.

The QSO contest is an ideal example of an activity, which exemplifies the best reasons for the existence of our hobby. For contained in such an activity are all the factors of cooperation, competition, good operating practices and good plain fun. The QSO contest, in one form or another, has historically been the one activity, which has bound together the hams of the world on a common ground.

Although the physical awards associated with our QSO contest were nominal at the most, the fun of competing, experienced by all who entered was motivation and reward enough to make the effort more than worthwhile. As with any activity of this type, the pleasures derived from it are in direct proportion to the size and quality of the competition. In this first contest, we had plenty of quality, but we were shy on numbers. So when the next one comes up, let’s all get in there and show our venerable Vice President that if he intends to be on top in that contest, he will have a bigger and perhaps a better, field to recon with.

See you on the air. 73

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IONOSPHERIC PROPAGATION

With the “Ides of March” just around the corner, the Spring Equinox promises much in the way of radio propagation via the F2 layer. There should be many openings to far distant Shangri-la’s on 10 meters at unexpected times, during the daylight hours. 15 meters will be even more reliable for the DX hounds, while 20 meters will show improvement during the evening hours.

This month we have worked out transmission paths to Rhodesia, South Africa and to Little America in the Antarctic. (These paths are worked out for 1 kW transmitters on a rhombic antenna). Low power stations should stay as close to the curve as possible, otherwise, the absorption will get you. 15 meters should be satisfactory for Little America daytime contacts, while 20 meters shows much promise for the entire nighttime hours.

For normal, quiet ionospheric days, these curves may be expected to hold true for about 85% to 90% of the time.
TVI DEMONSTRATION

There was no bloodshed or bones broken at the recent TVI lecture and demonstration held in the auditorium at the NBS Laboratory.

Approximately sixty-five people attended the lecture given by the Engineer-In-Charge, William E Clyne of the Denver Office of the FCC. The Denver Radio Club graciously supplied a TVI-proof RCA pro-table television receiver while our prexy WØCHM, offered his 21 mc TV set.

One of the more unusual sources of TVI demonstrated was the interference caused by an ordinary old-fashioned light bulb with the long zigzag filament. Kenny, WOUXI, has lovingly saved one for just such an occasion.

Our thanks go to John, WØRRV, whose efforts made the TVI demonstration possible, to Mr. Wm. E Clyne and to Swede Johnson, WOBON.

BARC has made one more step forward in maintaining harmonious relations between our Boulder Hams, the TV viewers and servicemen.

* * * * *

Some of our more skeptical members question our fine (?) new phonetics as used by MARS and the armed services. Romeo, Romeo, wherefore art though, Romeo? (Here I is Juliet).

FLASH!

HIDDEN TRANSMITTER HUNT

Norm, KOCQP, our activities chairman, has announced that a hidden transmitter hunt has been scheduled for about May 1st. He solicits your ideas for the rules governing the hunt, operating frequency for the hidden transmitter, etc. Many clubs now conduct their hunts on the minimum mileage basis with a time limit of, say, two hours. This obviates a tendency towards reckless driving when minimum time determines the winner. It might even be possible to have hidden transmitters on two frequencies.

Get your mobiles in shape and have your direction finding gear built up…… Don’t forget that a portable would also be useful on one of those hunts.

How about a picnic immediately following the transmitter hunt, with the XYL’s and families???

* * * * *

NEW NOVICES (?)

Carl Turnquist and his brother-in-law, Bob Strange, have just completed their novice examinations and now impatiently await affirmative action of the FCC on their Novice licenses. It is rumored their chances are good.

CLUB QSL CARDS!!

There has been much discussion and comment about a club QSL card. If the club has a cut made, we can keep the cut, which can be brought to any printer and printed up in any color combination and with different call letters. Thus, we would have a club card but with individual tastes in colors, etc., also available. Let’s have your ideas on this subject at the next club meeting. The executive committee hopes to have some samples, to help stimulate ideas, very soon.

CLUB COMMITTEES

At the bank meeting last week, the main order of business was the filling of vacancies in the various club committees. After the smoke had cleared, things began to look pretty good. The standing committees and the respective membership of each committee are listed below:
Activities Committee:
Norm Knudson, KØCPQ (Chairman)
Jim Joske, W1WAL/Ø
Bill Smith, WØZFJ
John Walsh, WØRRV (EC)

TVI Committee:
John Walsh, WØRRV (Chairman)
John Pitts, KØCEZ
Kenny Smith, WØUXI

Membership Committee:
Glen Johnson, WØFQK (Chairman)
Dave Hultquist, KNØHVY

Program Committee:
Gene Link, WØIA (Chairman)
George Oehlkers, WØOTG
Jerry Norton, WØHWI
Norm Knudsen, KØCPQ
Jerry Arthur, WØCHM

Publications Committee:
Jack Quinn, KØHEH (Chairman)
John Fullerton, KØHMT
John Pitts, KØCEZ
Jerry Arthur, WØCHM
Gene Link, WØIA
John Walsh, WØRRV

Publicity Committee:
Bill Clements, WØOMQ (Chairman)

* * * * *

We hear that since the last big wind, the KØCEZ ten-meter beam has the proper tilt for moon bounce reception. Heard anything from Polaris, John?

* * * * * * * *

It has been heard via 75 meters that WØOTZ is hot on the trail of hidden transmitters. Good luck George, and bring home the bacon.

* * * * * * * *

Dick Silberstein is now operating from KL7-land via KL7BFW
During the last few years, the Boulder Amateur Radio Club has had the opportunity to try out several plans for emergency operation. Many of the local group feel that one of these plans has worked successfully enough that we should adopt it as the emergency plan for the Boulder area. This plan should not be confused with the RACES plan which is a different horse altogether. The basic plan will be outlined here so that all may know what to do in the event of a local emergency. As soon as anyone in the local group is informed of the existence of an emergency, immediately contact WØIA. At that time, a fixed station will go on the air on 3890 kcs. All available mobiles should then check in on frequency and standby for further information and instructions. After the emergency situation has been evaluated, mobile stations will be dispatched to points where they are needed. In addition, a portable station will be set up at a place designated by local disaster officials. At this time, all mobiles will check into the portable station at Disaster Hdqtrs. The station at WØIA will continue to operate on 3890 kc (Colorado Emergency Net Frequency) and maintain a link with other parts of the state.

Since we cannot predict the exact circumstances of an emergency, the above procedure will get us started quickly and we can work out the details after our communications needs are determined. The important thing to remember is the frequency 3890 kc. Tune it in and standby for information and instructions. Everyone will be needed.

In order that we may plan more effectively, let us know what you have to offer. Fill out an AREC application. It doesn’t cost you a cent and it may help you.

Join us on the BARC Roundtable.

* * * *

THE CALENDAR

March 14 ------------- Social meeting at the QTH of KOCEZ. 220 Martin Drive, So. Boulder.

March 28 ------------- Regular meeting at The National State Bank conference room (downstairs) (Movies)

April 11 ------------- Dutch Treat Spaghetti dinner at Colacci’s in Louisville, 7 p.m. sharp.

April 25 ------------- Regular meeting at the National State Bank room. (field intensity lecture)
PHASING LINE OF 300 OHM TWINLEAD OR PREFERABLY 300 OHM OPEN LINE

- 0 -
Direction
Xmsn.

150 OHM TWINLEAD

300 OHM LINE (Non Respt.)

2-CO AX 72 OHM TWINLEAD 95 OHM TWIN AX
FRONT TO BACK IS ABOUT 29 DB. GAIN IS ABOUT 7 TO 9 DB OVER SIMPLE DIPOLE

W9IA


<table>
<thead>
<tr>
<th>Element</th>
<th>Formula</th>
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<tbody>
<tr>
<td>Long Folded Dipole-A</td>
<td>492/MC X .95</td>
</tr>
<tr>
<td>Short Folded Dipole-D</td>
<td>492/MC X .95</td>
</tr>
<tr>
<td>Space Between Inner Elems-C</td>
<td>984/MC X .10</td>
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<tr>
<td>Space Between Outer Elems-D</td>
<td>123/MC</td>
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<tr>
<td>Length Matching Stub-E</td>
<td>246/MC X .77</td>
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<tr>
<td>Length Phasing Line</td>
<td>123/MC X .95</td>
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</tbody>
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20 Meter Beam: 15 Meter Beam: 16 Meter Beam:
A: 32 FT, 6 IN.  31 FT, 10 IN.  32 FT, 3 IN.
B: 30 FT, 10 IN.  21 FT.      15 FT, 2 IN.
C: 7 FT.     4 FT, 7 IN.  3 FT, 6 IN.
D: 6 FT, 7 IN.  5 FT, 8 IN.  3 FT, 2 1/2 IN.
E: 13 FT, 3 IN.  9 FT, 10 1/2 IN.  9 FT, 7 IN.
FNL: 7 FT, 9 IN.  5 FT, 1 1/2 IN.  5 FT, 10 IN.

These figures are for middle of each frequency. Use the frequency in formula on which you want beam freq. centered. 

Data will load nicely over 200 KC. Either side of center frequency, with little change in antenna tuner, will load over a band of 27 KC to 30 KC, with drop of only about thirty percent of maximum loading at extreme limits.

All credit for this design goes to the Naval Research Laboratories, who released this data.
XTAL EXPERT EXPOUNDS

At our last formal meeting, we were quite fortunate in having Miss Kay Barclay of the Bureau of Standards, give a talk on quartz crystals for radio use. Kay is one of the few really bona-fide experts on crystals. She gave a fine dissertation on all phases of crystal production and operation. Of considerable interest was the information she gave on temperature-frequency characteristics and harmonic mode. It does not oscillate on three times the fundamental frequency of the crystal, but some frequency that is considerably lower than the multiple of the fundamental. The samples of quartz and the many different types of holders mounted crystals were of great interest. Holders dating back to the early twenties were on display and some of the most modern plated crystals. Of particular interest was a new vacuum mounted, highly polished crystal under development at the laboratories.

Kay is to be congratulated on the excellent presentation of her subject.

* * * * * * *

Jack, KØHEH, is so determined to put a big signal on, he will soon be called J. Kilowhat Burner.

TREASURERS REPORT

On FIRST ANNUAL DINNER DANCE

43 chicken dinners
@ $1.90.............................................................................................................$81.70

Tax.........................................................................................................................................1.88
Music.........................................................................................................................................2.00
Punch (Hic!)..............................................................................................................................2.50
Tip.............................................................................................................................................5.00
Cigars.......................................................................................................................................2.00
Flowers.....................................................................................................................................8.67

Total Cost $103.05

Amount received from sale of tickets................................................................. $64.50

Deficit paid from the club treasury................................................................. $38.55

* * * * *

Field Day this year will be the fourth weekend in June. It is not too soon to be looking around for a site that can be easily reached by car, motor scooter and pogo stick. Shade and drinking water are prime considerations. Please advise the committee of any sites you think would be suitable – now- not June 20th. We would like to have two or three fair sized wall tents available and several folding tables. We would welcome a cook and crew to provide coffee and breakfast for the ops. Brush up on your code OM, the BARC will have need of every Op we can get, to ease the load.
BARC Roundtable

Our Wednesday evening roundtable is gaining members with each season. The last two times there were eight and nine participants. We had Pete Heid KØAUS, Jim W1WAL/O, Norm Johnson, KØEMN, with us recently. Everyone had fun and even our casual listeners enjoyed eavesdropping in on us. Our novices bent an ear also and your Norwegian guest, Laagen Kuerils, has made tape recordings of some of our transmissions. You would be surprised to find out how you actually sound on the air. Join us on 3890 kc., next Wednesday at 6:00 PM, MST! And how about a CW Round Table on 3730 kc sometime so that our novices can participate? I'll bet most of you could afford to renew your acquaintance with CW. How about it? Last week’s session, with some break in, did much to improve the exchange of pungent comments and information. Let’s have more break-in. C-U-There!

George, WØOTG, has recently completed a versatile direction finding loop and field strength meter, using transistors. It works fine on ten and 75. Nice going, George. Make it tough for the perennial winners.

USING SURPLUS RELAYS

There are still many fine multi-pole relays on the surplus market, in the 26 V. DC range, which are quite cheap. They can be converted quite simply for 12 or 6-volt mobile use. They will draw less current than the horn or headlight relays widely used in this service, in general terms, the magnetic pull in $\Phi = NI$; N is the number of turns on the coil and I is the current thru it. As I depends on the voltage and coil resistance, a coil to work on half voltage, should have either half the number of turns of the same size wire as the original, or the same number of turns of wire twice as large in circular mils. Three gauge sizes less has double the current carrying capacity. Product M must equal original. To get enough turns in the same winding space, it is common practice to use fewer turns and higher current than the arithmetic proportion indicates. Allow 1000 circular mils area for each ampere and use as many turns as you can.

We hear that Frank Greene at NBS is anxiously waiting the arrival of his amateur license. Be patient, Frank, it only takes a few months.

TVI Activities

On Monday, Feb. 18, the chairman of the TVI committee addressed a regular meeting of the Boulder TV service organization. Nearly fifteen servicemen representing a majority of the TV service groups in Boulder attended. After a lecture demonstration on the general subject of TVI the meeting was turned over to a general discussion of interference problems. The masters of principal interest to the group were concerned with amateur responsibility, manufacturer’s responsibility and FCC action on TVI complaints. During the discussion the service shops represented agreed to stock Drake filters to facilitate remedial action on TVI complaints. All of those at the meeting agreed to support the program of the TVI committee.
The Boulder Laboratory Radio club of NBS has acquired a KWS-1 Xmtr and Collins 51-J receiver for contacting the South Pole. There were assigned KØIUK. Welcome on the air, “Institute of Uninhibited Kuckoos”!!

YE OLDE TRADING POSTE

For Sale: Master Mobile mount, HALF PRICE (5.00) WOSEV

For Sale or Trade for tubes for Viking 2: 600 V. 200 Ma. Power supply. WOFQK

Give away: 4 gassy 807’s. For sale or trade: 2 ea. 808’s. WOHWI

Swap: Hand set, Readrite Mtrs. Sell: K & E engr. Slide rule WOOTG

Trade: Mobile 15W. Xmtr. 75M VFO for slicer, money or ??? B & W BVL coils for 40, 20, and 10. Other gear. WOIA

Wanted: 20 ft. section, two in. diam. Aluminum tubing, or what have you? Sell set of code records, 78 rpm. 11 records & instructions, $6.00. Bernie Wieder, NBS. KOCEZ

Sell or trade: Millen R-9’er, with 20, 10 & 6 meter coils; B & M BVL coils, 80, 20, & 10, with link and jack bar; Want 2 ½” rd. Simpson M. 125 meter, 0-75, or 0-100 ma. WOCHM

Gene, WOIA, put his 20A kit together and got it working to his satisfaction & that of RDTBL. Now if he gets a slicer or some gear to receive it with, he can work SSB! Maybe!

MOBILE CORNER

W1WAL/Ø, Jim, reports Gonset G66B receiver doing an outstanding job under the dash as well as under the kitchen sink! How does it work as a portable, Jim? KØBTV heard going to town during the YL-OM contest, Kay was really racking them up..... but how about Colorado, Kay? What happened? WOSEV has dual mobile/portable rigs under construction for car to car (or bar to bar) communications. Karl’s potent mobile signal will soon be heard along the west coast from San Francisco to Seattle and Vancouver, BC. WØAAK, reportedly planning a midnight foray to that long rhombic north of town. Need an assistant, Bob? See a couple of new Webcor whips moving about town. Wonder who belongs to them?

BARC’s BARK

At the last regular meeting of the club, the members unanimously chose BARC’s BARK as the official title for our newsletter. We hope to publish a minimum of six issues per calendar year. Watch for the surprise features next issue.
COLORADO MARS ACTIVITIES

A new MARS net has opened up in Colorado on fone on 4025 kc at nine to ten PM, MST. John Walsh is net control station for this net, using MARS call AØRRV. Net call is AØIA/E, and net meets Wed. and Thurs.

Gene, AØIA and John, AØRRV are the Colorado representatives on M.A.T.N., a MARS net for clearing inter-army area, and overseas traffic.

This net has representatives from every state, territory and foreign US base with WAR in Washington, DC., and A6USA in San Francisco, clearing the traffic for, and from overseas.

It is a CW net on 5302.5 kc, and operates seven nights a week from five PM to five AM, MST. Any legitimate traffic for third parties can be accepted, if it is addressed to an APO or US base overseas.

BULLETIN BOARD

Charley Applegate, of the Boulder Distributing Co., is to install a bulletin board in his store where dealers or interested parties may list equipment for sale or trade. Print full data on 3”X5” cards that may be left up for one month from date you put on card.

GUEST EDITORIAL

By WØRRV

All of us are completely aware of the fact that we can enjoy amateur radio without becoming involved in such organizations as the Boulder Amateur Radio Club. It would then seem reasonable to ask, “Why do it?” The answer is very simple.

Simply, an organization comprising a large number of amateurs permits us to undertake those activities, which we enjoy and could not undertake as individuals. Good examples of this are the annual Field Day exercise, mobile transmitter hunts, and QSO contests. To this, we must add the old adage, “The more the merrier.”

During the next few months, the club expects to sponsor a number of operating activities. Participation in these activities by all the hams in Boulder will greatly increase the enjoyment of all.

Keep the dates of the forthcoming activities open. Field Day is on June 22-23 and the dates of the other activities will be announced in the near future. There is a spot for everyone in these activities, so let’s all get in on the fun.

See you on the air. 73