



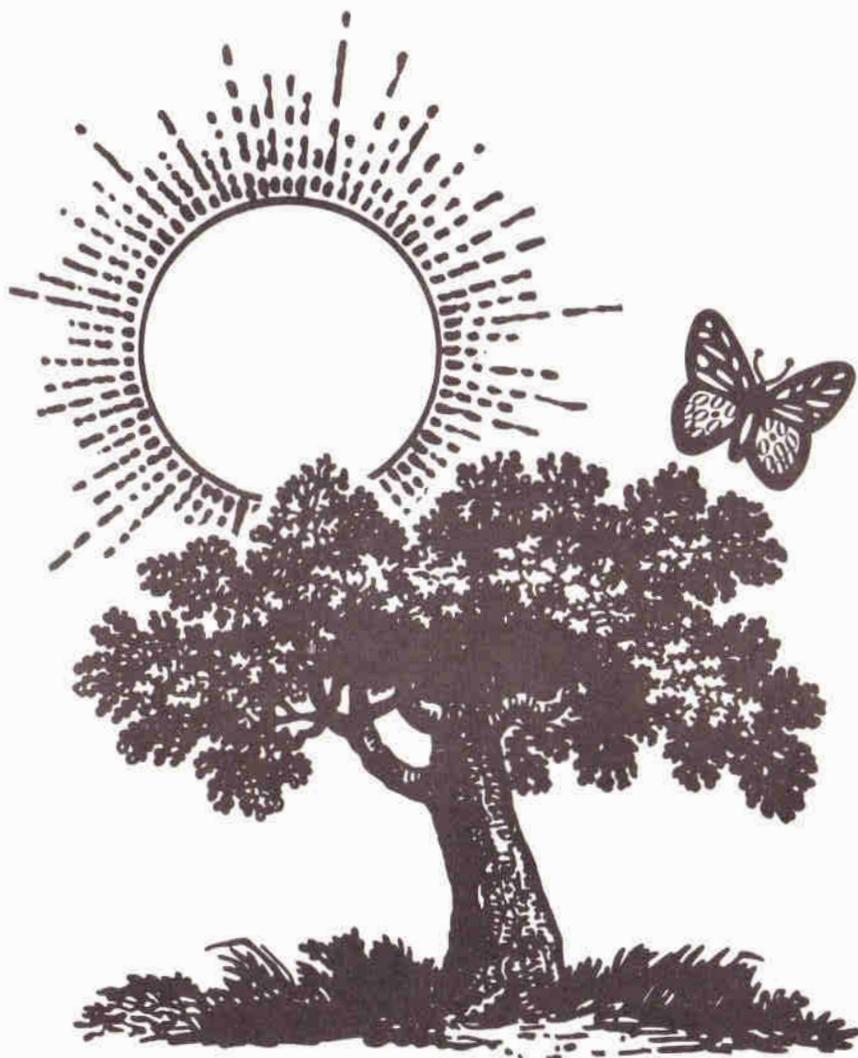
# HAM HUM

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### Copy deadline for July is June 19th

**Dues-Quarterly Basis** (For each quarter or part thereof for balance of calendar year.)

New member initiation fee .... \$1.00  
Regular member ..... \$3.00  
Regular member and spouse .. \$3.60  
Student member ..... \$1.05

### Dues-Annual Basis

(Due and Payable each January 1.)

New member initiation fee ... \$ 1.00  
Regular member ..... \$10.00  
Regular member and spouse \$12.00  
Student member ..... \$ 4.00

## NEXT MEETING

WHEN: FRIDAY, JUNE 12, 1981

TIME: 7:30 P.M.

WHERE: DOUGLAS/SARPY COUNTY CHAPTER  
AMERICAN RED CROSS  
38th AND DEWEY AVENUE  
OMAHA, NE 68105

PROGRAM: "LET'S TALK TOMORROW" —  
TERRY TAVENER, MANAGER, FACILITY ENGI—  
NEERING, WILL HAVE AN INTERESTING  
PRESENTATION ABOUT SOME OF THE CHANGE  
THAT WILL TAKE PLACE IN THE NEXT TEN YEARS  
IN TELECOMMUNICATIONS.

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## THE PREZ SEZ

Well, here we are back again with a bit of idle chatter, but before that, I would like to thank Olie Olson KAØJNS, for his fine program on RC Airplanes. Sounds like the kind of stunt flying I would like to do, the kind where your life isn't in any danger! It sounds like they have come a long way with their receivers and servos.

The Auction went very well, thanks to all of the willing and able hands that pitched in and helped Jim NØAIH and Mitch NØAZF. A list follows: Kitchen help that backed up Chef Peaker KAØEBD, were Aileene Renne, Loretta Kydney WBØMNL, Dalene Hutchinson WBØTTK, Viv Fehrman, Kay Wilson, Marge Cook, Carolyn Conley, Lee Brown, Ellen Morrissey WBØHWF, Kay Larwick WAØBDM, Joane Whitney, and Nancy Genovesi. (I hope I haven't forgotten anyone). A GREAT BIG THANKS from all of us. Incidentally, Chef Peaker, a certain person told me Crow wasn't too bad to eat, with enough catsup on it!

In the Treasurer's Shack helping out our Treasurer, Dick Fehrman KAØAAB, were Lysle Renne NØCKH, Walt Brown KAØDMB, Dave Dreith NØANR, Jon Penner WBØGQT, and myself.

On the floor handling the equipment and helping Bob Bouman WØPPT, the Auctioneer (incidentally who has been helping us out for 6 or 8 years) were Bob Carl NØAZA, Chuck Hoffman WBØNVL, Tom Thiessen KØPQR, Sam Kaplan WDØBVH, Willis Hoehne WØZUT, Ron Faulkner WDØCFC and XYL Elizabeth WBØZEX, Don Kavalec NØCCT, John Draus WØEKB, Scott Persson WBØQPP, Duke Humphrey WDØEWH, Jay McAleer WAØLLQ, Bill Leatherwood WAØZUR, Frank Clayton WDØESL, and Marty Peck WBØYTV, whom I'm told, did a lot of work before the Auction even started. Plus many more that I no doubt have forgotten, that slipped in and worked and left without being noticed. TNX again for a job well done! Bob WØPPT, tells me it was the best auction he has had yet! The acoustics were great and everything worked out smoothly. See you all there next year.

Among the upcoming events is Field Day. Dave NØCLW and Frank WAØIWF, the Field Day Chairmen, tell me they expect to finish even higher in the scoring this year with the help of the following shack chairmen:

Duke Humphrey	WDØEWH	80 & 10 meters shack chairman
Scott Bauer	KAØDXR	80 & 10 meters shack chairman
Mitch Gagne	NØAZF	40 & 15 meters shack chairman
Charles Peaker	KAØEBD	40 & 15 meters shack chairman
Mike Bruening	NØAON	20 meter phone shack chairman
Pat Connell	NØBNY	20 meter CW shack chairman
John Bruckner	NØAJU	VHF shack chairman
John Draus	WØEKB	VHF shack chairman
Fred Genovesi	KAØKDJ	Novice shack chairman
Jim Sanford	NØAIH	Equipment chairman
Jim Wilson	WBØJPN	Canteena chairman



(Continued from Page 3)

Also, YOUR help. They do need operators, so if anyone wants to get into the act, get in touch with the proper shack chairman. Or, just come out to Boys Town, June 27th.

I just had an offer made to me that 5 Hams out there can't refuse. An anonymous Ham told me that he would pay the Ak-Sar-Ben Amateur Radio Club dues for any 5 Hams for 1981, except the initiation fee. They have to be Hams who are licensed for 5 years and have never been a member for that period. If anyone out there knows of a Ham or has a buddy who wants to join and has been holding back, now is the time for him to do it. Just have him contact me and we will get things under way.

The Falstaff party was a lot of fun. There was just a "small but merry band" there, but a good time was had by all! We all thank Walt KAØDMB, and Ed WDØHBY, for starting the whole process. Maybe next time we can get more members out for it.

This month's program is about some of the changes that will take place in the next ten years in Telecommunications. Sounds like it will be very interesting. Remember, we are always open for your comments and suggestions. GET INVOLVED!

73's

de Jim WBØJPN

"IT MATTERS NOT WHAT YOU ARE THOUGHT TO BE, BUT WHAT YOU ARE."

\*\*\*\*\*

### **NOTES FROM THE BOARD OF TRUSTEES MEETING held on April 28, 1981, at the American Red Cross Building at 19:45 hours**

Members present: President Jim Wilson, WBØJPN; Charlie Rodgers, WØQQN; Walt Brown, KAØDMB; Ellen Morrissey, WBØHWF; Dick Fehrman, KAØAAB; and Chuck Hoffman, WBØNVL.

Guests were: Debbie Willmer, Lloyd McElhaney, KØDKM, and Lou Cutler, WØVLI.

Insurance was discussed. Plans for Field Day were gone over. The Silent Key board is starting to take shape.

Meeting adjourned at 21:50 hours.

Club Secretary,  
Ellen, WBØHWF

\*\*\*\*\*

## HERE ARE JUST A FEW OF THE WAYS YOUR CLUB CAN HELP YOU

Jackets & Caps	Walt KAØDMB
Name Tags	Edie WDØGHA
RFI	Frank WAØIWF
	Tom KØPQR
	Dave NØCLW
Technical Help	John WBØCMC (not before 10 AM)
Tower Climbers	Mitch NØAZF
	Scott WBØWOT
	Jim NØAIH
ARES	Jerry WBØPPF
Contests	Mike NØAON
QSL	Charlie WØQQN
	Alma XYL of WØQQN
Programs	Dick KØDG
Courtesy	Charlie KØQVL
Novice Help	Charlie WØQQN
	Chuck KAØEBD
Manpower	Jim WBØQGV
	Chuck WBØNVL
Advertisement	Tom KØPQR
Coffee Lady (at the meetings)	Aileene XYL of NØCKH

\*\*\*\*\*

## COMMITTEES

Education	Bob WAØDHU
	Ellen WBØHWF
	Lloyd KØDKM
Instructors	Bob WAØDHU
	Chuck KAØEBD
	Charlie WØQQN
	Jim NØAIH
Subs	Frank WAØIWF
	Dave NØCLW
	Jim WBØQGV
Auction	Jim NØAIH
Field Day	Frank WAØIWF
	Dave NØCLW
Equipment	Scott WBØWOT
	Jim NØAIH
Finance	Dick KAØAAB
	Walt KAØDMB
	Lysle NØCKH

(Continued on Page 6)

(Continued from Page 5)

**(COMMITTEES - continued)**

Finance	Paul WDØHRK Sam WDØBVH
Silent Key Plaque	Lloyd KØDKM Lou WØVLI
Repeater	John WBØCMC Ed WDØHBY Scott WBØWOY Wayne WBØHEW John WØWRT
Roster (notify of any changes)	Ellen WBØHWF Jon WBØQGT
Historian	Lou WØVLI
Ham Shack	Mitch NØAZF Tom KØPQR Dave NØCLW

\*\*\*\*\*

**RECENT CONTRIBUTORS**

HAM HUM POSTAGE

William F. Boeckenhaupt, AKØA

34/94 REPEATER

John A. Draus, WØEKB  
F. Hilton Norton, WBØHPP  
Lawrence F. Caccomo, WØNMN  
John F. Davey, WØWEN  
Wm. A. (Duke) Humphrey, WDØEWH  
Ward H. Justus, WØLAA  
Sgt. Carl J. Quijas, WBØTUE

40/00 REPEATER

Walter J. Brown, KAØDMB  
Sgt. Carl J. Quijas, WBØTUE

22/82 REPEATER

Wm. (Duke) Humphrey, WDØEWH  
Ward H. Justus, WØLAA  
Sgt. Carl J. Quijas, WBØTUE

\*\*\*\*\*

**CHANGE OF ADDRESS**

Patrick L. Scolla, WBØEGR  
2103 Main  
Bellevue, NE 68005  
Phone: 291-1186

\*\*\*\*\*

**UPGRADE & CALL CHANGE**

Lysle A. Renne  
from KAØDKO to NØCKH  
(Advance License)

\*\*\*\*\*

**NEW MEMBER ADDITION TO ROSTER**

Dennis E. Godek, WDØBCP  
4218 Valley  
Omaha, NE 68105  
Phone: 551-6543

\*\*\*\*\*

## MINUTES OF THE GENERAL MEMBERSHIP MEETING held May 8, 1981, at the Red Cross Building at 38th & Dewey Ave., Omaha, Nebraska

The meeting was called to order at 19:30 hours by President Jim Wilson, WBØJPN, and began with the Pledge of Allegiance.

Identification — each member arose and gave their name and call letters.

New member — Dennis E. Godek, WDØBCP. Motion made and seconded that he be admitted to the Club.

Bob Lockwood, WAØDHU, Chairman of the Education Committee, gave a nice report that there were several upgrades and new Novice licenses and that plans are being made for the next classes.

Charlie Peaker, KAØEBD, Chief Cook at the Auction, gave a twelve-fold thank you to the ladies who gave such great assistance to him in the kitchen. Thanks go to the following — Aileene K. Renne, Vivian Fehrman, Kay M. Wilson, Carolyn Conley, Leota L. Brown, Joane E. Whitney, Nancy Genovesi, Marge Cook, Loretta Kydney, WBØMNL, Dalene M. Hutchinson, WBØTTK, Verla Kay Larwick, KAØBDM and Ellen Morrissey, WBØHWF.

Dick Fehrman, KAØAAB, read the Financial Report. Walt Brown, KAØDMB, says that there are jackets and caps available. Lou Cutler, WØVLI, reports that the Silent Key plaque has been framed and is moving right along. Chuck Hoffman, WBØNVL, still has a few decals left. Thomas Thiessen, KØPQR, read some from the *HR Report*.

Vicki Hohensee drew 15 names out of a hat for "Shack Pictures" and a write-up about the particular ham. Vicki is the daughter of Amy Hohensee, WBØUQI.

Motion and second that the business meeting be closed.

### Program for the evening

Olie Olson, KAØJNS, Benson Hobby Shop, gave a very interesting and informative program on radio-controlled airplanes. There were demonstrations and models and many questions that he answered. Doughnuts and coffee followed.

Program concluded at 22:05 hours.

Club Secretary,  
Ellen, WBØHWF

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 **Need help? Call us. Want to help?  
Call us.**  
**Red Cross is counting on you.**

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& The Advertising Council



## TWO-TWENTY RIO GRANDE VALLEY STYLE

By Chuck Salge, WD5JLA

When I first arrived in the Rio Grande Valley back in 1978 I asked some of the more active VHFers in the area about local interest in 220 MHz operation. The responses I received were, to say the least, discouraging.

I was told, "Don't worry about two-twenty; they're going to take that band away from us," and,

"There's nobody down here on two-twenty 'cause there's no activity there."

Some were unaware that we even had a band on 220 MHz. Not very promising, I'll tell you!

But fear not, Fellow Hams! After sixteen months all is well on two-twenty and it's getting even better. First, the World Administrative Radio Conference is over and the band is still ours; it will be ours for a long time to come. That worry is behind us.

I won't attempt to explain the premise that there is no one on two-twenty because there's no activity. It does remind me of a story of two farmers.

When rural telephone service first became available, one farmer had a phone installed right away. The first farmer asked his neighbor why he didn't get one. The second farmer replied, "Why should I? Nobody ever calls me."

Two meters was the same way some years back, wasn't it? LOOK at it NOW!!! Someone had to go up there first, right? Here in the Rio Grande Valley there is activity, some come on up,

the air is fine.

For those of you who were unaware of the 220 MHz band, or are unfamiliar with it, it looks like this: Five MHz worth from 220 to 225 available to Amateur Radio in which all modes of operation, except fast scan television and pulse, are permitted. Repeaters are found between 222 and 224.98 MHz, with channel spacing 40 KHz (vs 30 KHz on two), repeater offsets are 1.6 MHz LOW (vs 600 KHz on two). The band is situated between television channel 13 and the military UHF aircraft band. Two-twenty is far away from commercial two-way services and their associated intermod problems.

The band is loaded with advantages. The normal range of communication compares with two meters, the noise level is much lower than on two and, if you want to converse without everyone and his mother with a Bearcat 250 or something similar listening in, two-twenty is where it's at

That's enough sales pitch for now. Here are some cold, hard facts about two-twenty in the Rio Grande Valley in particular and South Texas in general.

Locally, the Westlaco repeater on 222.86/224.96 has a mobile coverage radius of about twenty miles; double that for fixed stations. Planned improvements to the Brownsville machine on 223.30/224.90 will in the near future increase its coverage to fill in the present gap between San Benito and Olmito. Soon the entire Rio Grande Valley will be within repeater coverage on two-twenty.

Elsewhere, Corpus Christi may

have a two-twenty repeater within the next year. San Antonio has four, Houston has three and Austin two. A few more are located around the state, mostly in the Dallas-Fort Worth area.

Occasionally, when the weather is right, fantastic results can be obtained on two-twenty. Several Houston and San Antonio stations have been worked by stations here in the Rio Grande Valley.

The most notable repeater contact occurred on October 4, 1979. Dave LaChance, WD5CLI, and I talked to each other for a few minutes through the WR5AHT repeater in Slidell, LA, a round trip of about 1,275 miles!

Twelve days later, WA5LNL in San Antonio showed up on the Westlaco repeater with a full-quieting signal. On November 25 last year, WD5CLI and N5ASG, Tim Benavides of Edinburg, set a new Rio Grande Valley distance record for two-twenty simplex — Brownsville to Tim's mobile on the highway west of Mission, over sixty miles! Now all we need is a station on South Padre Island.

This should give you something to think about the next time you get itchy for a new rig. In these days of \$1,500 HF gear, maybe it would make good sense to try something different for a change — at about one-tenth the cost.

Two-twenty fever is here! CATCH IT!!!

73,  
Chuck

Chuck Salge, WD5JLA,  
605 North Illinois,  
Westlaco, TX 78596  
\*\*\*\*\*

## QSL CORNER By Charlie, W0QQN

Insurance these days is the name of the game. Why not take out a little insurance on your QSL cards. It's very simple. Print the call as plain and clear as you can. Cards are handled many times before they reach their destination and any one handler that is unable to read the call may have their own idea about what to do with it. Having sorted untold numbers of cards in the last five years, I can assure you that it really helps when someone prints the call in bold, capital letters. Mixing capital little and written letters in a call is difficult for the sorters. Of course, the language barrier also takes its licks at us here in the incoming QSL Bureau. Your personal way of making certain letters may work at the drug store and or with your secretary and your own people in your business, but Nob, Alex, Ivan, Hiro, Boris, Hide, Gená, Tossy, and Vic will likely have trouble getting your card sorted and to the right party.

73's Charlie, W0QQN  
Mgr Zero QSL Bureau  
\*\*\*\*\*



"Tomorrow it's your turn to put out the cat!"

## RECENT ACTIVITIES

Assisting in area activities is usually a pleasure to Ak-Sar-Ben Amateur Radio Club members.

Participating as "Check Pointers" for the "White Cane Walk-A-Thon" sponsored by the National Federation of the Blind of Nebraska on May 16, were Maurice W. Costello (KØYWY), Walter J. Brown (KAØDMB), Jim Sanford (NØAIH), Mitch Gagne (NØAZF) and Ellen Morrissey (WBØHWF).

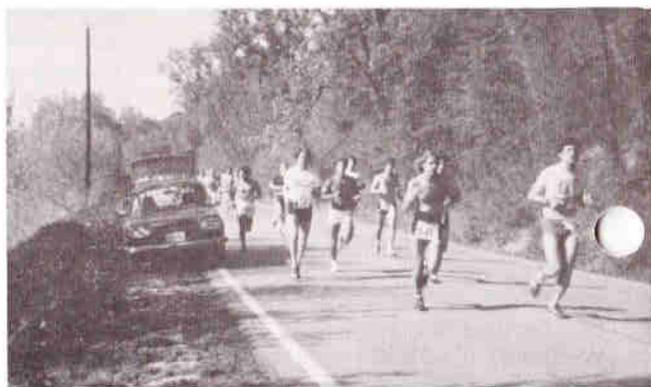
Several other members of our Club relayed communications for the Six-Mile Marathon for Diabetes Research on April 26, 1981 at Dodge Park. Net Control was handled by Scot E. Thompson (WBØWOT), Check for the one and five mile marker was Ellen Morrissey (WBØHWF), and the three-mile marker, the turnaround, was handled by Lysle A. Renne (NØCKH), while markers 2 and 4 were manned by Marty D. Peck (WBØYTV).

(See pictures below submitted by Ellen, WBØHWF.)



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for Diabetes  
Research



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## WOMENS' AUXILIARY CHATTER

Thank you, Lee Brown, for an interesting and fun program April 29th. Several of us took part in **actually** quilting an adorable baby quilt in just 45 minutes! We plan to raffle it off at some Radio Club function, but just weren't organized enough at the Club Auction.

Also, thank you to, who else? Lee, again. She came up with a cute "Polish Donut Seed" package. I ran off several sheets of instructions and she put them together. Walt KAØDMB, brought them to the Auction, but we were not prepared to do any selling, so he brought them to the Club Meeting and we **did** sell them! All 32 of them! Thanks to Loretta WBØMNL, who sold the most single-handed! Also, thanks to all the Hams who bought them! They are adorable and no garden is complete without one. We will have another batch next month for those who missed out. Only 50¢ per package.

Our next project was helping serve lunch at the Auction. Thank you to all the ladies who helped Charlie KAØEBD, Saturday night peel potatoes, onions and make hamburger patties, and for helping serve Sunday. We worked hard at times, but had a well synchronized routine. We also had some good laughs and were told the kitchen came through with a profit!! AP-PLAUSE for Charlie and the Auxiliary! It didn't seem to phase him at all to be associated with all of us!!

Our next program will be at the Red Cross Building on

May 27th at 7:30. The program will be given by one of our members, Mary Goetz, who is a representative of Paradise Jewelry and will be giving us a demonstration. It sounds very interesting, as it includes demonstrations on how to use scarves to advantage.

Hope more ladies can make it each month. The bars served by Dalene WBØTTK and Willa Smith were scrumptious and we all would like the recipes.

Kay Wilson  
\*\*\*\*\*

## TELETYPE BITS

It's time to break that old klunker of a teletype out of mothballs and put it back into service because there will soon be a statewide RTTY network in Nebraska. Thanks to the efforts of Bill Seier (WBØSIP) a new VHF RTTY repeater will soon be in operation covering the Lincoln-Omaha and surrounding areas. Additional surprises are in store coverage-wise, too!

Already there are teletypers on 146.70 MHz. Jim (NØAIH) has a model 28 ASR in great condition and usually burns up quite a bit of our paper nightly. The rich guys, Tom (KØPQR) and Dick (KØDG), who are running computers, don't have to worry about paper and they are on RTTY also. I think that Dick is still running his Heath computer and Tom has a TRS-80. The newest teletype on 70 is Mitch (NØAZF) with his model 19. I have a model 28 myself and an Atari 800 micro to generate the RTTY on transmit.

There are ten to twenty

teletypers in Lincoln and as soon as Bill completes the project, the whole area will be "linked" for RTTY. I am sure many pictures will be exchanged!

Plans are also being made for a statewide RTTY emergency net to efficiently pass traffic in case of a disaster or emergency in the state. Training sessions will begin soon and all teletypers are encouraged to join in. All times and frequencies will be announced at a later date. If you have teletype equipment and are able to use it on VHF 170 Hz shift, drop me a line somehow if I don't already know you. I am accumulating data on RTTY in the state to determine the distribution of teletype gear

available in the event of an emergency. As the Nebraska RTTY Coordinator, I would appreciate hearing from you.

Also, if there are any neat circuits floating around out there, send me the information for publication here so all can take advantage of it. In this column I will try to pass along general RTTY information, tips on operation, net reports and RTTY construction projects.

Anyone interested in operating procedures on RTTY can consult "Specialized Communications" by ARRL. I will have more on procedure next month, but until then, see you on 70 autostart!

de Scott, WBØQPP

\*\*\*\*\*

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## REPORT FROM THE PRINCESS WA1SPM

What a vast difference in the operation of large vessels today compared with those of my younger days as a radio officer aboard some of them! We sailed out of Port Everglades this Fall for a Caribbean cruise on the new (1978) Cunard Princess. (Incidentally, her original construction was allegedly commenced by MGM as one of five floating gambling casinos, but reportedly MGM backed out and Cunard picked up the construction and completed her into a cruise ship.) One no longer hears bellowing voices through megaphones issuing instructions upon docking and disembarking. All hands now carry quiet efficient radio handy-talkies. Gone is the old "bridge telegraph" to the engine room. All functions of speed and direction are carried directly from the bridge through consoles with an array of buttons, small levers, and telemetering indicators. The engines run continuously, as do the propellers. The bridge controls the speed and direction of the vessel through the magic of variable-pitch-props.

Nobody "shoots the sun" anymore. (The first officer couldn't even remember where he'd stowed his sextant). Several electronic navigation systems are available, but the most popular one is the "Satellite Navigator" which from information originating in a satellite in space reads out constantly

on a screen the ship's exact latitude, longitude, and provides the time of day to the second. No longer do little tugs push and pull the big ship when docking or departing — the ship is equipped with a huge (nine feet in diameter) "booster thruster" below the waterline, which is like a turbine. On command from the bridge, it sucks in water from one side of the ship and spews it out on the other, pushing the ship horizontally in one direction or the other.

The radioroom too, is automated. Very little morse code work is performed. 99% of the ship's traffic, in and out, is handled by keyboard telex with London via HF radio equipped with ARQ (automatic error correcting system). "Copying the weather" is no longer necessary. The bridge is equipped with radio facsimile meteorological map equipment and it is updated on weather every few hours. The radio officers are however, not responsible only for communications, but among their responsibilities is repair and maintenance of the ship's radar and electronic navigation systems, as well as the engine-room sensors and computer systems. A new name — "Electronics Officer" will eventually be designated for these jobs.

de Spark Gap Times, N.Y.

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## HAM HUM SWAP

NO CHARGE FOR ADS (NON-COMMERCIAL) SUBJECT TO SPACE LIMITATION. MUST BE SUBMITTED IN WRITING TO P.O. BOX 291. SEE COPY DEADLINE PAGE 2.

WANTED: New or old Radio Magazines that you are through with.  
Ward H. Justus, WØLAA, 2913 Hickory, 346-0949

WANTED Mini-Beam. Phone 455-2766. Tnx.  
TO BUY: George R. Whitney, KAØBDT  
6258 Sprague Street, Omaha, NE 68104

FOR SALE: Wilson Mark 2 Handi Talkie with speaker mike and desk charger. Spare batteries. Two Duckies, 1 short, 1 long. \$150.00. Call after 6:00 p.m.  
Jim Rogers (KAØJYZ) Tel: 402-489-6480  
240 Lakewood, Lincoln, NE 68510

FOR SALE: Heathkit HW2036 Synthesized 2-meter transceiver. Unassembled — \$199.00.  
ONAN Electric generator 7.2KVA. Surplus, huge, on wheels — \$495.00.  
Bill Dumbleton WBØNPS 551-0577 391-2071

FOR SALE: Heathkit SB 102 — Power supply, mike, speaker, spare pair 6146B, 5-band operation, CW Sidetone and Homebrew RIT.  
Jim Voise, KAØGZY  
22 LaSalle, Sioux City, IA 51104  
Tel: School: (712) 279-6721 Home: (712) 277-2635  
\*\*\*\*\*

### LETTER TO THE EDITOR

Monday  
April 4

Dear Editor:

I wish to express my appreciation to those members of the Ak-Sar-Ben Radio Club who were instrumental in taking Chet's gear to their Auction on Sunday, April 3. Jim Sanford deserves a special thank you for seeing that the job was well done. Thanks, Jim!

Chet KØPTG, was an active member of the Club for many years. He died last summer of cancer.

Thank you, Mr. Editor, for allowing me to take this means to tell those deserving guys "thanks."

Sincerely,  
Fran Doll, XYL

\*\*\*\*\*



## IF shift, digital display, narrow-wide filter switch

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- **Narrow/wide filter combinations**  
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- **Advanced single-conversion PLL system**  
Improved overall stability and improved transmit and receive spurious characteristics.
- **Adjustable noise-blanker level**  
Pulse-type (such as ignition) noise is eliminated by built-in noise blanker, with front-panel threshold level control.
- **RF attenuator**  
The 20-dB RF attenuator may be switched in for rejecting IMD from extremely strong signals.
- **Optional VFOs for flexibility**  
VFO-240 allows split-frequency operation and other applications. VFO-230 digital VFO operates in 20-Hz steps and includes five memories and a digital display.
- **RIT/XIT**  
Front-panel RIT (receiver incremental tuning) shifts only the receiver frequency, for tuning in stations slightly off frequency. XIT (transmitter incremental tuning) shifts only the transmitter frequency, for calling a DX station listening off frequency.

#### Matching accessories for fixed-station operation:

- SP-230 external speaker with selectable audio filters
- VFO-240 remote VFO
- AT-230 antenna tuner/SWR and power meter
- MC-50 desk microphone

#### Other accessories not shown:

- VFO-230 remote digital VFO with 20-Hz steps, five memories, digital display
- TL-922A linear amplifier
- SM-220 Station Monitor
- KB-1 deluxe VFO knob
- PC-1 phone patch
- HS-5 and HS-4 headphones
- HC-10 digital world clock
- YK-88C (500 Hz) and YK-88CN (270 Hz) CW filters and YK-88SN (1.8 kHz) SSB narrow filter
- MC-30S and MC-35S noise-canceling hand microphones

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