GATES STUDIO REVIEW

GATES RADIO CO.

QUINCY, ILLINOIS

JUNE, 1946.

NEW ONE KILOWAT FOR DURHAM, N. C.

Harold Thoms, owner of WISE, Asheville, N. C., has purchased a Gates 1-KW for his new station in Durham, N. C. Charlie Sumner, the chief engineer, and Mr. Mc-Reynolds of the New York office ironed out all the wrinkles. The station which is in the rich tobacco region expects to be on the air with its 1000 watts in the not too distant future.

KRNR GETTING NEW TRANSMITTER

KRNR, Roseburg, Oregon, a sister station to KFLW at Klamath Falls has purchased a new 250-C1 transmitter. After installing a 250-C at Klamath Falls, Mr. H. C. Chandler and Mr. Leroy Hiatt, the chief engineers of these two stations, were able to express their satisfaction in one way ordering one for Roseburg. The station on the West Coast will be another completely Gates equipped.

LESLIE HILLIARD OF KGKY BUYS NEW 250C.

From Mr. Alexander our mid-west Sales Engineer, comes an order for a new 250-C transmitter for the ever popular station KGKY at Scottsbluff, Nebraska, where Mr. Leslie Hilliard is owner and manager. This station is one of the pioneer stations in the radio field.

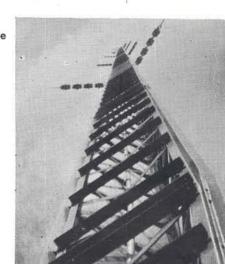
MERIDIAN, MISS., TO GO TO 5KW Mr. D. W. Gavin, owner and manager of Radio Station WCOC, Meridian, Miss., has completed his installation at Macon, Miss., and is now making preparations for the new installation of a Gates BC5A transmitter at Meridian. With this additional power the coverage and reception will make his position most enviable.

BLOOMINGTON, IND. ON 1010 KC WITH 1 KW

One of the new stations close to "home" is the new station at Bloomington, Indiana, where Warren, Davis, Yaeger and Ford, Inc., business men from Louisville, Ky., will set up a complete Gates 1-KW installation on 1010 KC.



Temporary Transmitter House



Bill Malone and some Members of Staff

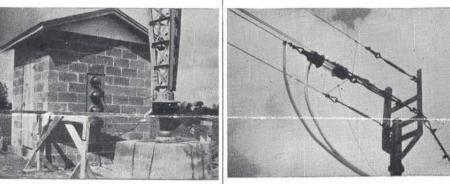
WDSC's 300 Ft. Wincharger Tower

A view of the open

wire transmission

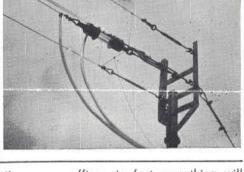
line.

Doghouse for Antenna **Tuning Unit**



"THIS IS STATION WDSC, DILLON, S. C.

One station not to be outdone or even left "out" during these hectic times, is Dillon, S. C., which is on the air although the station is far from completion. After the reinforced concrete floor was put in, the transmitter was set up in a temporary 'house" and the permanent building is being completed around the makeshift arrangement. When it is completed the inner shelter will be removed. Studios, transmit-



ting room, offices, in fact everything will be housed in the new building located about four miles out of Dillon on the main highway between Washington, D. C., and Miami, Florida. The modernistic architecture incorporates all the latest innovations in that glass block and red brick will form the main structure of the building. Inside, in keeping with the up-to-dateness of the station, the equipment is the Gates BC1E transmitter and all associate items. Needless to say, it will be one of the most composite and up-to-date studios on the East Coast, barring none,



This month we are welcoming to our midst a group of new girls on the assembly line under the capable leadership of Wally Freye. During the war several had worked at Gates and to them we say "Welcome back." The others we hope will like their work here. Here they are:

MRS. RUBY MANLOVE-

who worked at one time in the packing department.

PEACHY THOMPSON-

from Ursa, Illino's, a sister to Nellie Nichols, one of the old-timers.

RUE FUSSELMAN-

from Plainville, Illinois, is finding out there is something to the radio besides the knobs on the outside.

ELVA WILCOX and DOROTHY CALHOUN are learning the why and wherefore of how to, and how not to wire pieces of equipment.

Here are the men——

DONALD E. FONTAINE-

recently of the U. S. Army Signal Corps, but originally hailed from St. Paul, Minn. He is one of the wiremen with Johnny Anderson on Transmitters.

HAROLD R. LOCK-

was with the Army Engineers and is now with Bob Flotkoetter and his "boys" in the Packing Department.

THE FIRST HUNDRED YEARS ARE THE HARDEST

If this saying is true, poor Bob, our shipping department superintendent, has a hard life ahead of him. He had the misfortune to have a broken wrist and a bruised neck the first month of married life. He insists the arm was broken while sliding into home plate playing soft ball, but who knows, maybe he was just sliding in home and Bert met him. The other—he says he has tender skin.

Nelda: I wish I were like the rivers. Shade: What for? Nelda: To follow my course without leaving my bed.

Give a woman an inch and she'll think she's a ruler.

STATIC FROM THE LINE

"Gee, this weather sure makes you want to go fishin' or swimmin' or somethin'. How about lying on the bank along some stream with a fishin' line and just relaxin' . . . sure sounds good, especially when one is trying to fish some news out of these people and they are about as close mouthed as some of these fish or would it be as close mouthed as Pippenger and Schutte this month when they took themselves to the doctor to have their tonsils and "stuff" removed sure kept them quiet for a few days, oh heavenly days we wonder why Frankie is so anxious to find out the advantages of married life, it couldn't be that little blonde at the mail order desk of a downtown dept. store and here we thought he was wearing a path to the sales room one week the grey hairs Myers is getting trying to figure out a way he can have Lib's four rings transferred to another phone, too much competition on one phone and none on the other in front of him, (maybe he should move????) how did Jim Havermale get out of that barrel at coffee time the other morning . . . and here is a good one, imagine, Roger gets to work so early he decided to take a cat nap in his car and he slept until Howard came out to investigate why he was so late couldn't be he was catching up because of his nite work, meaning the ring has been given to an "ideal Lima Lass" of course Howard is one to talk after paying a buck to have some guy change his tire one night, because he was too tired, (he says) Mr. Damm, one of the de-



BOB AND BERT, THE NEWLYWEDS

his wife who is still in St. Joseph, due to the housing shortage anyone having any empties can contact Fred, he will be more than pleased Mr. Petery has purchased a new home in the northeastern section of town, moving in sometime after he gets back from Monroe, La., and the new station . . . Anna Young and Mary Adcox, two of the original girls who started on the assembly line on the second floor, were made group leaders congrads and all that to you two-we know you will make it OK . . . Neva Mitts who has been with the company for approximately three years left for Utah this week, to stay with her sister who was taken suddenly ill while we are mentioning it, Ginny Linneman, Mary Ellen Goodwin and Elma McNay were also among the old-timers who have worked long and faithful we shouldn't forget Perkie in the stockroom who also joined the girls back when now with the "lid on" Gladys won't have any more trouble like one noon when she put two dimes in the telephone and reached up to pull the handle down all she got was "Number, please" Velma's new name "Sally of the Stockroom" Al Rakers had a most painful accident, mashing one of his fingers and losing a finger nail in the bending machine Frankie, Johnnie and Don Lohman all promised to take Emmie to the party and it finally boiled down to . . . who? . . . May 29, morning after, weary, happy smiles on all faces for those beautiful Goldenrod Envelopes we all received as our slice of the BONUS CAKE OF GATES . . . our only thought . . . a million thanks and VAT A DEAL if we had started out with Pa Gates in the good olde days my aching back, would that envelope be heavy just one more thought, what did Art Myers develop that made him sick just long enough so he could not give a talk at the banquet a chicken heart that's what we are getting too, so long till next time.

velopment engineers, enjoyed a visit from

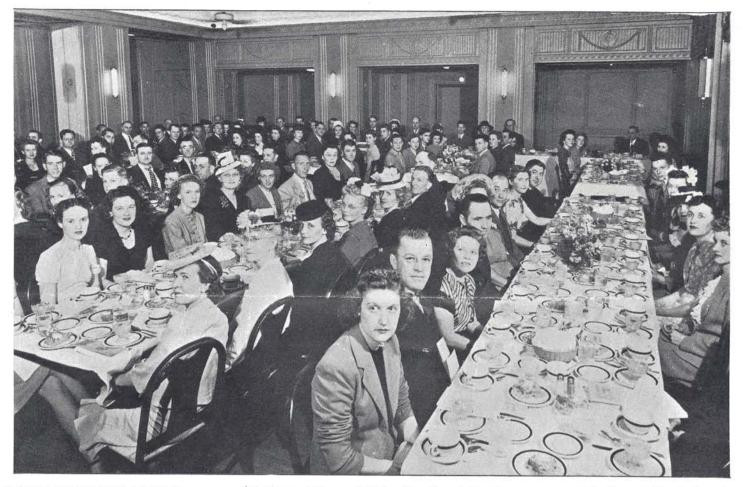
Bob Schutte wants to take this opportunity to thank Gates for the beautiful flowers he received while he was in the hospital for his tonsilectomy.

5%-

-\$7-

Mac: Where is the stationery, please? Desk Clerk: Are you a guest at the hotel?

Mac: Certainly not, I'm paying eight dollars a day.



GATES COMPANY SHARES PROFITS WITH EMPLOYEES

Profits of the Gates Radio Company, one of Quincy's leading industries, were shared with company employees as the climax of the company dinner and entertainment attended by approximately 150 in the ball room of the Lincoln-Douglas Hotel, Tuesday, May 28. All the employees received bonus checks, even the newest ones—the amounts ranged from five to several hundred dollars. It was probably one of the largest profitsharing distributions ever made by a Quincy concern.

Dinner was served at 6:45 during which Mr. Harry Love entertained with a program of organ music. Fred Grimwood, who was the jovial master of ceremonies and with his ready wit contributed much to the gayety of the evening, introduced the Mellodettes who presented a group of songs in their usual outstanding fashion. They were followed by talks given by Francis Wentura, assistant chief engineer, Bill Parker of the engineering department, and Joe Pippenger who gave us a little sales department information for the coming year. Responses were given by members of the various departments. Gladys Dickhut, oldest in line of company service; Mary Adcox, Building No. 1; Elizabeth Hildebrandt, Building No.

2; Howard Young, Building No. 3, and Don Hubbard spoke for Building 4.

The highlight of the evening was the talk by Mr. P. S. Gates in which he announced the incorporation of Gates Radio Company and also the incorporating of the Henry C. and Cora B. Gates Foundation for charitable and religious purposes, in memory of his father and mother, the founders of the Gates Radio Company.

His address stressed the fact that faith in the future must be retained by the keynote of progress in this day and age. He told of the motto in his mother's office, "Today is the tomorrow we worried about yesterday." "When you and I become discouraged and believe that, in this hectic day, we haven't much of a chance, we are only indulging in a bit of bad reasoning. Today, even with high taxes, shortages . . . , there is still a silver lining to see right now if we but look for it . . . your company is working on the basis that tomorrow will be as much better than today, as today is better than yesterday . . . Today we employ more people than on V-J Day and there is still more room for the right kind of people. Today your company has orders on hand and future prospects much greater than any time in its nearly 25 years of history. Today we are

known as well in Europe, South America and other parts of the world, as we are in the United States, and these countries are all clamoring for the kind of equipment we manufacture . . . we are going into an electronic age where I predict that, before many decades pass, our industry will be the largest of all, surpassing the giants of automobile, rails, aircraft and steel.

As many of you know we are pioneering in many new products, foremost being frequency modulation and likewise new developments for the standard transmitter; we will soon go into more pioneering, our staff will be augmented where necessary with the best brains available to do the most possible to make Gates Radio a company that is good to work for, but more important, an institution that will contribute well to our city, state and nation, because it is what we do that not only reflects on our welfare, but our success is actually the success of every citizen of Quincy, and in some way, the country."

Mr. L. I. McEwen, general manager, was in charge of arrangements for the affair, as well as the distribution of the "slices of cake" received by company personnel.

TO "P. S." This is one place we may say a word and you can't duck out the back door. "Thanks for the cake"!

3

MONTHLY EDITORIAL

In recent weeks everyone, who is in the business of buying, whether it is for manufacturing or for broadcasting, has been told repeatedly that the price quoted on the product is not guaranteed as the selling price at the date of shipment. This policy has been condemned by all of us as very bad, but due to the fact that it is almost universally followed now, not much can be done about it.

As many are wondering why the price can not be guaranteed let us look at the facts. Suppose you, as a broadcaster, sold an advertising contract for a period of six months for a flat fee of \$5,000.00. This figure was based on your general overhead, cost of the program, etc. Now let us assume that the line charge for this program was \$2,500, talent \$1,000, and overhead \$500, leaving \$1,000 profit. After three months you were advised that the line charge would be \$3,200 instead of \$2,500, and talent would be \$1,500. At that point you would start operating at a loss on this contract. We realize the example is a little far fetched but it is a far fetched economy that we are going through right now.

Six months ago an input transformer in one piece of our equipment sold list at \$20. Today this transformer is \$28.10, legitimate market, that is with OPA allowed increases, which is a total of better than forty per cent on material cost. Recently our factory was out of No. 14 asbestos covered wire. Last paid price was \$28.10 per 1000 ft. Now the new price on the only available lot on legitimate market is over \$60 per thousand feet. We have no way of knowing if the next shipment will cost us \$120 per thousand feet.

We at Gates have tried our very best not to increase prices. When OPA lifted ceilings on broadcasting equipment, out of 100 items in our line of major character only two items of consequence were increased and these ten per cent or less. Our volume is much greater and so far we are absorbing the increases without passing them on, in the major part, to you. However, we sell many items such as microphones, and loud speakers, etc., that are not manufactured by us. As we have no control over these items we are forced to pass some of the increases on to our customers.

We well know that when we sell some-

INTRODUCING SPECIALTY DISTRIBUTING COMPANY

Specialty Distributing Company, who d'stributes Gates Radio products in the southeast, is more than just a parts jobbing house. It is, in fact, just what the name implies—a company specialzing in every phase of radio electronic distribution. One division of "Specialty" is the Broadcast and Industrial division which caters to and specalizes in sales and service to the broadcasters of the southeastern United States.

Each of the four Specialty Distributing Company stores are managed by men whose names are well known in southeastern radio circles. In Atlanta, Georgia, it is W. K. (Kirby) Baker; Macon, Georgia, J. E. (Stumpy) Eaton; Savannah, Georgia, L. M. Boyd, and in Chattanooga, Tenn., A. A. Sterk. The special broadcast engineer, R. J. (Put) Palmisano, headquarters in Atlanta and covers the southeast calling on broadcasters and allied agencies. These

five men together have accrued approximately thirty years of service with "Specialty," and separately are pledged to provide their customers with a service that is always just a little better than is expected of them. As most everyone knows, Fred Morris, that genial southern gentleman, heads the entire organization.

There are quite a few jobbing houses in the southeast and just a few broadcast supply agencies, but none equal to "Specialty," where the broadcasters can obtain everything from "soup to nuts", (O.P.A. willing). "Specialty" stocks complete lines where and when equipment is available, and exerts every effort to provide prompt and efficient service in furnishing parts, equipment and information. So whatever your needs are, if its for a new station, for an old station, or just radio parts, we recommend "Try Specialty First."



Radio Station KXLR affiliated with Mutual Broadcasting System at North Little Rock. In the Control Room is Earl Butler, assistant engineer; program director Howard Byrum, and Bob Carpenter, Mutual's Southwestern representative.

thing at one price and bill it at another, we create ill will. Thus we do not like to follow this procedure and we will try to keep you advised in advance if this is to be the case, wherever possible. However, we are living in a crazy sort of economy and every nickel more paid for coal, rail tickets, wages or anything else obviously reflects in the selling price whether it is pop corn or broadcasting equipment, although in some instances the effects are not immediately visible.

We all look for the day when our word as far as quoted prices are concerned, is again as good as our bond. You can feel assured that Gates will even sell at a loss if necessary, to keep a reputation which we have nurtured these many years, and most important, we will never rightfully be accused of operating at any other than legitimate market even when the demand is tremendous and many of our customers generous in their attitudes. P. S. GATES.

4



Mary Ellen Goodwin, Annie Young and Gladys Hensley, working on 25A Frequency Control Units.

"Hold it, that's better, now smile. O. K. girls, that's all ," said Junie, quietly folding up his camera, ready to leave.

"Thanks a lot, Wally, for all your help. I hope we have not disturbed you too much?"

"I don't think so, in fact most of the girls at the other end of the room were unaware of what you two were doing up here on this assembly line floor," Wally informed us.

"Those are really some interesting looking gadgets," Junie remarked. "Would you like to take a look at some?" Wally asked.

"I most certainly would, in fact just what was that we took a picture of?"

"Well, that was a 25-A Frequency Control Unit, used in the Gates 250-C and BCIE Transmitters, considered by many as the most important part of equipment for the radio station. It is in plain simple English, 'the Heart of the Transmitter', controlling the frequency range. Over to the right you see Ginny, Ida and Bert working on Gates Dynamotes used by announcers in broadcasting ball games, sports events and out-of-the-studio programs. With one of these, three mikes can be used or mixed simultaneously. In fact, WTAD uses one for its famous 'Man on the Street' program. The Dynamote has a separate Power Supply that you see over by the window where Mary and Pauline are working. In front of us Lena is working on Resistor Boards, attaching the various size resistors and condensors to the lugs on both sides of the miller

board. These Resistor boards are used extensively in the Studioettes, which are over to your left where Elma is assembling and Charlie is testing and inspecting those completed. Studioettes are used in small stations instead of consoles. That large size piece of equipment lined up on the far side where Nellie, Peachy, Neva and Dorothy are working, is one of them. Now over here we have a run of Remote Conditioners used as a simple line amplifier."

"Say, Wally, do you mean to tell me that all of this various equipment is necessary for broadcasting programs?"

"You haven't seen anything yet; let's go over to the next table. You see lined up in rotation various types of amplifiers: Line Amplifiers, Recording Amplifiers, Turntable Amplifiers, Utility Amplifiers, all needing various parts for completion. That's what those strikes are doing for us. NO PARTS. It sure is . . . after fighting four years to have to come back to this thing. Sure hope you don't mind that outburst but that is just how I feel when I see all that equipment and the orders we have for it and we can't do too much about it. Well, to get back to our amplifiers, I sure wouldn't need one to be a soap box orator would I? They are used for practically what the name says to amplify the voice level from the microphone to the transmitter. Glenn over in the corner is working on the new theatre amplifiers used in movie houses for picking up the sound vibrations on the film for amplification."

"Now here's something I recognize, they HOWARD GASKILL'S LITTLE GIRL

look like light cords, only about three times heavier, what are they for?"

"Oh, those are line cords for Dynamote Power Supplies."

"You mean they are Wally's black whip," piped up a voice from the rear, turning Wally faint red and very guilty looking to say the least.

"Alright, girls . . . but I haven't used them . . . yet. Well, Junie, is there anything else you see?"

"No, sir, but I guess I'll just stick to taking pictures and then go home and relax in a nice soft chair, with a cold drink, favorite tobacco and turn the button on my radio and enjoy the music, and let you people worry about how to get my favorite 'Bob Hope' programs to me. So long, Wally."

RETURN ENGAGEMENT FOR PHIL BACK

Phil Back has had his station at North Little Rock on the air now for several months. To use the expression "actions speak louder than words" we give you this information another complete Gates installation at his other new station at Harrison, Arkansas. You know, everyone looks forward to these return engagements. -2-

It is interesting to note that when God made man he didn't arrange any of the joints of his bones so he could pat himself on the back.

It is better to be silent and be thought a fool than to speak up and remove all doubt.





The GATES 1-KILOWATT TRANSMITTER

T has everything you want in performance—modern broadcasting technique from circuit developments, now incorporated, which are the result of proved laboratory tests. It is versatile to meet all demands. Yes, and it is dependable under all circumstances. In addition to these mechanical perfections which Gates engineers assure, the BC-1E Transmitter combines easy operation and beauty in appearance to make your Station outstanding in showmanship. It is RIGHT for the 1-Kilowatt Station. Investigate it!

CONDENSED SPECIFICATIONS

FREQUENCY RANGE: 530 to 1600 K. C. FREQUENCY STABILITY: Plus or minus 10 cycles maximum.

POWER OUTPUT: 1000 Watts. May be operated as 500 Watt Transmitter. Power reduction for night operation may be incorporated to suit requirements. POWER SUPPLY: 230 Volts, 60 Cycles, single phase, regulation not to exceed plus or minus 5%. FREQUENCY RESPONSE: Within 1½ Db. from 30 to

10,000 cycles. DISTORTION: Less than 3% from 50 to 7500 cycles.

O-95% modulation.

NOISE LEVEL: 60 Db. below 100% modulation.

WRITE FOR COMPLETE SPECIFICATIONS

NEW YORK OFFICE: 9TH FLOOR, 40 EXCHANGE PLACE





SOLD IN CANADA BY: CANADIAN MARCONI CO., LTD. MONTREAL

EXCLUSIVE MANUFACTURERS OF TRANSMITTING EQUIPMENT..... SINCE 1922

MALONE, N. Y., TO HAVE 250-C

Mr. Mitchell C. Tackley of Washington, D. C., formerly a captain in the ASF, will install a complete Gates 250 watt setup in his new station at Malone, N. Y.

PIERCE LACKEY ADDS ANOTHER STATION

At Madisonville, in western Kentucky, Pierce Lackey is expanding his interests and will go on the air with a complete 250 watt installation on 730 KC. Th's station will also use all Gates associate equipment, making it another of the "thorobred" stations in the bluegrass state.

-2-

PADUCAH NEWSPAPERS, INC., TO HAVE 1-KW.

The Paducah Newspapers, Inc., owners of the Paducah Sun Democrat, one of the most widely read daily papers in western Kentucky, is completing preparations for its new 1000 watt station at Paducah. It will have the Gates BCIE and complete associate equipment. Mr. Edwin Paxton is president of the company.

ROSWELL, NEW MEXICO, GETS NEW 250-C1

From the region of the Atomic Bomb tests comes an order from Radio Station KGFL, Roswell, N. M., for a new 250-C1. Mr. W. D. Whitman is both manager and chief owner of this station as well as the branch station at Hobbs, N. M., KWEW. Both of these stations are near the new oil belt of southeastern New Mexico, as well as being important air bases for the Air Force.

"POOR NIBS"

We were so sorry to hear that Nibs while trying to explain a very elusive "thesis" had the misfortune to wave his hand once too often and away went his favorite "fumigator." He is speechless now, but needless to say his wife and family are most happy over the whole thing. It was one of her choice means of keeping him in line, and now:

"Rita's glad, "Nib's is sad; "That's too bad."

Fred: Why is a girl like radio? Joe: I don't know, why? Fred: They like to play.

The old maid began to sing "Praise the lord, I got a proposition."



New 250 Watt Transmitter at WIRA, Fort Pierce, Florida. The added attractions on either side are Conrad Clemens, chief engineer, and Dorothy McCormic, also known as "Miss Tomato of 1946."

Chase and Sanborn are wolves, they date every bag. (What, no censor?)

Among labor saving devices the waste basket ranks very high.

A necessity is something you can't get along without—but do. A luxury is something you ought to get along without but don't.

-----☆------

"How can you cure someone of snoring?"

"Easy. By good advice, co-operation, kindness and by stuffing an old sock in one's mouth."

Two fellows were walking home from a party, when one stopped and looked at this sign in a store window: "Eskimo Spitz Dogs—\$5 apiece."

Turning to his companion, the man at the window said: "Most unusual. I'll bet you \$5 he can't do it."

-\$-

Money may not bring happiness, but most people like to have enough of it around so they can choose the:r own misery.

"Life is like a ladder, every step we take is either up or down."—Roger Babson.

-&-

Philosophy: a study which enables man to be unhappy more intelligently.

SPECIALTY SELLS TALLAHASSEE

In the land of sunshine a CP was granted for another 250 watt station to Tallahassee Appliance Company. For their station they have purchased a complete Gates Installation, including a 250-C1 transmitter and associate Studio equipment.

_____☆_____

You may not be responsible for the things that happen to you, but you are responsible for the way you behave when they do happen.

Courtesy of Radio-Craft Magazine



"Lady, there's nothing wrong with your radio. You just have to stop listening to those soap programs!



BILL PARKER

This month we have as our "guest engineer" none other than our Mountain Boy from Big Rock, Tennessee "little" six foot one, Bill Parker. He really in-herits some of those well known mountain traits......good nature and persistenceto achieve his purpose with the least amount of bodily energy. Of course he will use twice the amount with his ever active mind. his knowledge of rad.o, radar and television, as well as that of FM is of great help to him in his development work on the new Gates FM transmitters now in production in the factory. his knowledge of rad.o, Those unfamiliar with the intricacy of an FM transmitter still maintain that he is working on a super deluxe "still" for his pappy in the "mountains." We know, however, that Bill is not kidding when he says that although it is not a "still" it

really percolates when it comes to Frequency Modulation. Even before completing school Bill was obsessed by the Radio Bug, working part time and later full time in radio stations in the south, until Uncle Sam saw part time and later full time in radio stations in the south, until Uncle Sam saw fit to take over his services for the big job ahead of him in the Navy. Here he served for several years as Radio Technician, Radio Electrician and Engineer af-ter he completed the intensive course of study laid down by the Navy for these boys. We all know how complete these studies are and the grades they have to make; Bill's work, so to speak, really puts the punch behind these remarks. Besides his transmitter work he has introduced several pieces in the line of speech input equipment and accessories. Beil's idea of a really good transmitter is one that will turn itself on by

Bill's idea of a really good transmitter is one that will turn itself on by the clock, fix his coffee, punch him in at work, and then maintain its high effic-iency while he reclines in bed working on new "ideas." To the wiremen in the factory, the engineers in the office and all the boys, Bill is "one swell guy" and that means everything.



DAD

A little word can mean so much And make one's heart so glad, The one that's brightened life for me And always will is DAD.

And address of the second seco



HERE'S YOUR GATES **STUDIO**

REVIEW

SEC. 562, P. L. & R. U. S. POSTAGE PAID QUINCY, ILL. Permit No. 122