



"G.I. Journal" cast—Left to right—Mel Blanc (Pvt. Sad Sack), Rita Hayworth, Charlie McCarthy and Edgar Bergen.

World's Future Dependent Upon Modern Education

Students Point Way to
Better, Easier Learning

Today, scientists tell us, we're living in the "atomic age." We're living at a time when the future of the world depends on sincere, successful thinking, and modern foresight by leaders of all nations. Modern foresight requires men with modern ideas. And, modern ideas, in turn, are the result of modern education.

As the reputation of the United States has long been without peer in the field of education, it is not difficult to understand why modern educators are tirelessly planning new ways of educating the American boy and girl. No doubt, your Mary or my Bill, will learn their ABC's as you and I, but, chances are, the alphabet will be presented to them in a new, streamlined way, a modern way. In other words, the youngsters of tomorrow will find school far more interesting and less arduous than was the case when we attended the little red school house on the hill. He or she might even find school to be "fun." At least that's the hope of the modern educator.

Better Citizenship Training Mapped

An example of what is now being done to make "going to school" a pleasure, is told in a report received from Mr. W. Howard Bateson, instructor in American Citizenship and in charge of Visual and Audio aids at Jefferson Junior High School in Dubuque, Iowa. Mr. Bateson, associated with audio-visual education in schools and commercial theaters for over twenty years, believes audio-visual equipment to be one of the prime factors in education's progress. "I am firmly convinced that this country is now to go forward into a new and greater field," Mr. Bateson exclaims. "This field, it seems to me, will be directly related to the school, the church and the local theatre. These institutions will provide the means for integrating all of the resources of the community for better citizenship training.

"Recently," the professor continues, "the students of my classes exchanged scrapbooks with the pupils of a junior high school in Georgia. In acknowledging receipt of the Georgia school's scrapbook, our students decided to send a recorded 'thank you' note. In the recording, they further explained many of the things in the Iowa scrapbook in order to give the Georgia pupils a better understanding of the history and resources of our city and state.

Streamlined Education

"Not only did this single recorded disc bring more information, pleasure and enjoyment to the Georgia group but it served to introduce them personally to the boys and girls who had prepared the Iowa scrapbook and whose photographs appeared in its pages.

"I know of no better way to teach history, geography and human relations than through a well planned recorded disc exchange project, supplemented by sixteen millimeter motion

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Armed Forces Radio Service Expands Networks Into Areas of Occupation for '46 Operation

The Armed Forces Radio Service will continue as a military operation of the War and Navy Departments into 1946. Thus, armed forces overseas are assured a continuous supply of AFRS programs via shortwave beams originating from San Francisco and New York City, Armed Forces Radio Stations located in the immediate vicinity of troops, and via AFRS transcriptions for playback aboard ship and over landbased sound systems.

Webs on Peacetime Standard

The global broadcast outlets of the AFRS are still in daily operation overseas meeting the increased needs of soldiers, sailors, and marines for information and entertainment through radio. GI networks have been converted into peacetime status by expansion into areas of occupation. The "Far Eastern Network," under General MacArthur, extends from New Guinea through the Philippines into Japan. The "American Forces Network" formerly servicing troops in the British Isles and France has expanded its outlets into Austria, Germany, and Italy. Down in the South Pacific the "Mosquito Network" still has stations in operation from Guadalcanal to Samoa. Other AFRS Stations continue to function in the Middle East, the Aleutians, Panama, South America, Iceland, Greenland, India, Burma, and China.

L. A. Headquarters Maintains Pace

To meet the needs of such AFRS outlets, the Armed Forces Radio Service plans to continue its production of broadcast material at

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Church Women Plead For Enduring Peace

Recordings Heard by Thousands

The first Friday in November was observed nationally as World Community Day by the United Council of Church Women, an organization representing 10,000,000 Protestant women of all denominations. Their theme which they went at in earnest was "The Price of An Enduring Peace."

Program materials for the day went into 11,000 communities in the United States. Local groups in these communities put in weeks of study and preparation. These women knew they had to begin building world peace by getting understanding and tolerance for all peoples in their own communities.

National Leader SFPC Representative

To penetrate hearts and homes with the responsibility upon every individual for making the United Nations Charter live in a real United Nations Organization these women went on the air. Mrs. Harper Sibley, their national president, had been one of their representatives at the San Francisco Conference.

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"Hi, Dad De!"—William Hillyer McDonald, with Mom, send greeting to Capt. McDonald, overseas.

USO Recording Service Proven Morale Builder War Record Unparalleled

Popularity of "live letters" made on voice records at USO clubs is attested by the fact that USO Central Purchasing Department has sent out 301,059 discs for records in the last two years, and that this figure is exclusive of those purchased locally or through other channels.

All discs purchased by USO are donated to service men and mailed out by individual clubs. Some 350 USO clubs in large cities are equipped with voice-recorders, and men en route overseas during the war years or returning today have used these machines to send messages to their families.

But sheer statistics do not tell the human story behind this USO service.

Nation-wide reports indicate some of the companionship and warmth behind the making of these recordings.

Many Languages Recorded

A USO club director in Tacoma, Washington, wrote during the height of the war:

"Made recordings tonight for men of five nations. A choir boy from Russia chanted a message to relatives in New York City. A soldier from Free France who'd escaped to the United States and joined up here made a recording for his uncle in California. A Christian Arab sent one to his sister in San Francisco—a Jewish boy from Palestine ever so shyly said a few lines to his sister in El Paso, Texas. An Irish lad from County Cork, Ireland, sang an Irish ditty to his grandfather in Wisconsin—and a chap from Corsica did one with an Italian flavor."

The voice records are usually made in a large room, so that there is always an inter-

ested crowd of kibitzers around. But any man wanting privacy for a special message may take the machine into the club director's office and make it without having a crowd listening to him.

Dan Cupid Given Hand

This is especially important in such instances, for example, as the time when a man proposed to his girl by voice record. In fact, sweethearts and wives receive a fair share of all these messages. Sometimes a man will sing a love song to his girl. And in a USO club in Ozark, Alabama, a red-haired Texan stopped in to say that his girl had turned him down. He made a voice record, singing "You've gone and left me all alone," and sent it to her family. Evidently his appeal was moving, for he became engaged to the girl soon after that.

Mom Not Forgotten

Thousands of men have made USO voice records "to Mom." Use of the recording-machines was especially in demand when men were leaving for combat zones overseas. For security reasons they could not say that they were "shipping out," but they usually managed by innuendo to put so much appeal in a letter that no one could fail to understand their meaning. Today, men returning and unable to go home immediately—and particularly the convalescent wounded who visit USO clubs—send "live letters" of greetings to their families.

From a USO club in the South came the story of a man who made a special record for his family. His mother wrote back that when his pet dog heard the boy's voice he sent up

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Record Industry Depends on Master Recording Discs

By E. Franck, Research Engineer

Disc recordings played a vital part in the war, spreading information, propaganda and entertainment. They were also used in training and in morale building.

Great Demand On Industry

Some recordings were considered so important that air priorities were given to overseas shipments of vinylite pressings. To meet the greatly increased demand for pressings, the industry was expanded and production multiplied many fold. (Note the article in this same issue on the recording work of the Armed Forces Radio Service.)

For the most part, the production of all these pressings depends on Master size lacquer discs for the original recording. Discs for this type service must meet many requirements in addition to good cutting and playback qualities.

Uniformity in Quality Needed

We can understand these additional requirements best by following the Master disc through the steps of processing. First, the recorded surface must be rendered conductive to electricity so it can be electroplated. This is usually done either by a silvering process or by a gold sputtering method. The silvering process consists of depositing silver from a chemical solution, and requires all the care and control of mirror manufacture. If everything is not right, such as solution strengths, purity, work-room temperature and condition of the recorded surface, the deposit may be weak or splotchy and the results very erratic. In general, the technique of silvering needs to be adjusted to the particular recording disc used. Of course, once the technique has been adjusted to give good results, the recording discs must be uniform in quality in order to give consistent results. In the sputtering process, the Master disc is subjected to worse tortures. It is placed in a vacuum chamber and positioned next to a sheet of gold. The gold sheet is made a cathode of an electrical gaseous discharge and some of the gold is "splashed" off onto the disc.

Masters Copper Plated

After being coated with silver or gold, the lacquer Master disc is plated with copper to give a strong metal plate, and then stripped away from the disc. This gives a metal plate with ridges in place of the grooves in the recording and is used to press out "pressings" or records.

Lacquer Must Be Good

If the recording lacquer of the Master disc is not good, the silver or gold may adhere too strongly to the lacquer coating and make the stripping troublesome or impossible. With a good lacquer Master disc, on the other hand, the stripping process is easy and the disc may be put either through the silvering or the gold sputtering process more than once if required.

Processing Often Delayed

Frequently, there may be a delay between the time of recording and processing. This places an additional requirement on the Master disc, that is, that the recorded grooves shall not change shape during this period and that there shall be no increase in noise level.

AFRS to Stay In '46

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its headquarters in Los Angeles at a pace equal to that established during war time. This means AFRS headquarters will continue to produce 151 separate radio programs weekly, the equivalent of 60 transcribed hours of entertainment. Weekly air shipments will continue to key distribution points of clusters of AFRS outlets with each shipment offering a fresh issue of 120 plastic transcriptions, 5½ hours of script material, new selections for basic music libraries, and special educational and informational programs.

In addition, AFRS will maintain its short-wave operation offices in New York City and San Francisco. One thousand five hundred hours of AFRS programs a week are now being beamed overseas from 19 powerful short-wave transmitters ranging from 20,000 to 100,000 watts in power.

New Recording Tricks Saved Day

Approximately one and one-half million AFRS transcriptions have been shipped overseas since World War II began and ended. It is the general consensus of AFRS headquarters that the enormous task of bringing radio entertainment programs of the highest technical quality and talent performance from Los Angeles to American Forces throughout the world would have been greatly impaired without the development of new transcription techniques given impetus by war time requirements.



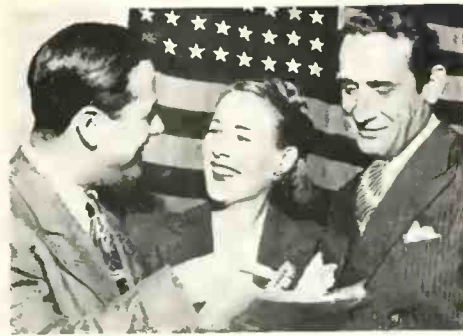
Col. Thom. H. A. Lewis, former AFRS Commandant, receives millionth plastic transcription from Joseph Cousins, Los Angeles pressing plant employee.

The demands Armed Forces Radio Service made on the transcription industry were unprecedented. In many instances AFRS reached out into overseas theaters and brought back recording experts who had been drafted from pressing plants earlier in the war. Pressing processes were streamlined. And plant personnel worked on a 24 hour basis. In some cases pressing plants increased their transcription output thirteen hundred per cent to meet demands of the AFRS for more and more pressings!

New Year Plans Outlined

Today the transcription industry as a whole is turning out over 100,000 pressings per month for Armed Forces Radio Service. Sixty per cent of all AFRS transcriptions are shipped to overseas broadcast outlets and to ships of the U. S. fleet. Forty per cent are distributed to hospital sound systems operated by the AFRS in this country for wounded war veterans.

The outline of special AFRS shows for 1946 follows the same pattern of programs carried throughout the war. Included on the 1946 production list are its four major productions: "Command Performance," "Mail Call," "G. I. Journal," and "Jubilee." Included among other original AFRS shows slated for '46 are "Hymns From Home," "Concert Hall," "Downbeat," "G.I. Jive," and "Jill's Juke Box."



Producer-Director Robt. Lewis Shayon, Actress Wendy Barrie and Actor Victor Jory discuss "CRISIS IN OUR TOWN" script.

Nation Brought Closer to Human Problems

Work of Community Chests Aired to Public

A better understanding of human beings, their problems and the tangles they get out of, with the help of social agencies, is resulting from the widespread use of an annual series of recorded dramatizations being distributed by the non-profit organization, Community Chests and Councils, Inc.

These open-end recordings of fifteen-minute dramatizations are superbly produced and directed, and enacted by leading artists of stage, screen, radio and music.

The organization already has a third of its new series of scripts ready for 1946 production and distribution throughout the country for broadcast over leading stations.

Given Best Air Hours

With the exception of New York City, Community Chests exist in every city of more than 25,000 population, and distribution is made through the local Community Chests which are thereby made responsible for audience building and promotion. Use of open-end recordings permits complete identification of the program with the local Chest and work of the agencies it supports. During the last two years, the choice broadcasting hours allocated by local stations to these public service programs is a barometer of their excellence, and, according to a recent poll, the welcome mat is out for the new series when it comes along, thanks to the care with which scripts, production, casting and music are handled.

Rh Factor Discussed

Timely and provocative, the series each year includes some highly scientific material, such as the Rh factor, newest discovery in blood chemistry, which was dramatized in the 1945 series. The story, "MARVELOUS UNKNOWN," was written to dramatize some of the work done in hospitals supported by Community Chests. But its popularity with Dr. Alexander S. Wiener, a co-discoverer of the Rh factor, has been so great that he now uses the recording to highlight and illustrate his lectures on the subject to doctors and scientists!

Scripts are under the direction of Eloise Walton of Community Chests and Councils, Inc., and production and direction are in the capable hands of Robert Lewis Shayon, of the Columbia Broadcasting System.

Special music was written and directed by Jon Gart, and some of the talented stars enacting these stories are Victor Jory, narrator for the 1945 series, "CRISIS IN OUR TOWN," Mady Christians, Celeste Holm, and Ralph Bellamy.

Top Stars Featured In NTA Series

Hu Chain to Direct New Year Productions

A series of 13 radio dramatizations, playing up various aspects of tuberculosis control, has been produced by the National Tuberculosis Association under the title of "The Constant Invader." The transcriptions are for use by the National Association's affiliated associations throughout the country, which have ordered 270 sets.

The shows were written and directed by Hu Chain, with Dr. A. J. Cronin, well known author, as the narrator, and professional actors as the cast. Original music by Ben Ludlow was used. Another series of 13 will be produced by the Association in 1946.

In connection with the annual Christmas Seal Sale, the Association, as usual; produced three radio transcriptions which were placed by affiliated associations on local stations throughout the country.

One was a fifteen-minute dramatic show commemorating the 50th anniversary of the discovery of the X-ray and starred Walter Huston. It was called "The Light That Saves Lives."

A musical show, also fifteen minutes and entitled "Christmas Seal—Christmas Music," featured Richard Crooks, the tenor, and Howard Barlow and his orchestra from the "Voice of Firestone" program. Milton Cross was master of ceremonies. The third was a series of spot announcements made by such persons as Roland Young, Herbert Marshall, Victor Moore, Lou Costello, Ray Milland, Capt. Eddie Rickenbacker and Edward Everett Horton. Orders were placed for 425 of each transcription in the set. Hu Chain was producer.



Most Beautiful Harpist?

21-year-old blond Elaine Vito, harpist with the Music of Manhattan orchestra currently being heard on many stations throughout the country on transcriptions. Norman Cloutier, director of the orchestra which comprises some of America's best known musicians, is convinced that Elaine is the world's most beautiful harpist.



JJHS students broadcast round-table discussion over school sound system. (Presentation was recorded for future play-back and reference.)

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pictures and snapshots taken by pupils to go with the recordings they make. These pictures can be shown on a screen by using an opaque projector, or made up into slide films and synchronized with the recordings. But, if this equipment is not available, then a scrapbook of recordings and snapshots is excellent. A well organized use of audio-visual aids will save from thirty-five to fifty percent of the time usually required to teach a given lesson. But more important than this is the fact that students have a wonderful opportunity for the mutual exchange of ideas, that to them are real and full of meaning.

Children Correct Voice Problems

"Recording discs, alone, serve many useful purposes. They can be integrated as a part of a round-table discussion and broadcast over the local school sound system or aired over a local radio station. For example; last year we made recordings of a series of eleven seasonal programs for our music department in eleven elementary schools, to be broadcast over two local radio stations. The children enjoyed hearing themselves before they went on the air and their teachers were given the opportunity to make necessary corrections in their style and delivery.

"With this type of procedure, children will find their citizenship training a functional, practical, aid in understanding many community and national problems."

Church Women Plead For Enduring Peace

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Mrs. Sibley recorded her forceful message and one hundred cities across the nation bought and used the 100 recordings made.

Golden Rule Emphasized

By means of this recorded appeal thousands of homes in nearly every state in our union heard the earnest voice of Mrs. Harper Sibley, American Mother of 1945, saying:

"We must accept the Price of Enduring Peace—we who have paid so dearly in lives and blood for this war. And the price of enduring peace is based on willingness to take seriously the Golden Rule—wherever we may happen to live, hour by hour and day by day—to do unto others as we would they should do unto us." It demands that we cast aside prejudice and old concepts of human relationships and recognize our kinship, as children of the one God, with peoples of all races, all creeds, all nationalities, everywhere on earth, but beginning in our own home town. If we want peace for ourselves, we must be prepared to share it with the other members of the world family; for peace today, like war is indivisible."

USO Recording Service

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great bays of delight. So the soldier went back to the USO club and made a whole recording just for his dog Fido.

Even a Will Recorded

The stories behind these recordings are endless. A composer made a record of piano music at the USO club in Hempstead, L. I., N. Y. One man once made his will, and its legality would be an interesting question. Again a tall soldier visited a Long Island USO and recited to a record a poem he had written for a shut-in invalid boy.

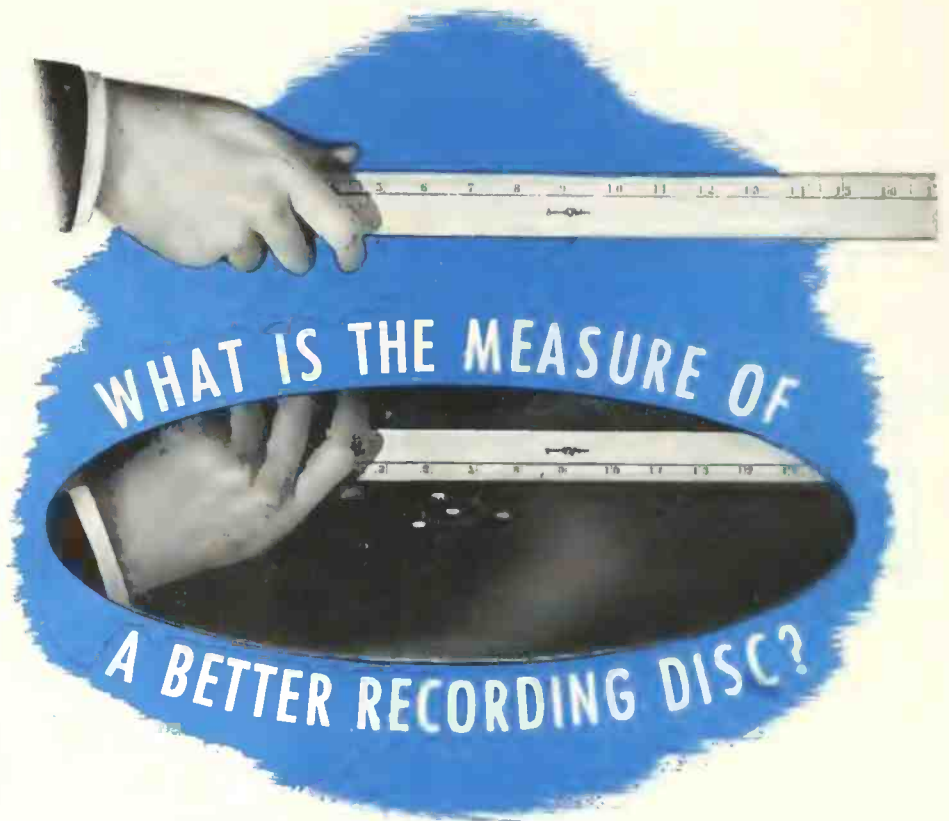
The system, however, works two ways. Frequently USO junior hostesses have made voice records for men who had visited the clubs and who had been transferred to other camps.

And often mothers have come into the clubs to make records for their sons. Many are the instances of young wives who have held a child up to a microphone so that "daddy" far away could hear for the first time his baby's voice.

Many men welcome this method of greeting, and at holiday-time send their thoughts winging homeward on those little round discs.

Attention Readers

Audio Record is published monthly in the interest of better disc recording. If YOUR name is not on the Audio Record mailing list, drop a penny post card to—The Editor, Audio Record, 444 Madison Avenue, New York 22, N. Y.



By putting a ruler to a recording disc, you can, in one sense, "measure" recording quality—since the disc must reflect a true image. But there must be many other in-built qualities in addition to a flat, smooth, mirror-like surface:

For recording and playback the disc must have split hair accuracy in thickness of coating, easy cutting characteristics, positive thread-throw, brilliant high frequency response, no audible background scratch, no increase in surface noise from time of recording to playback or processing and—these qualities must not change—must last as long as the recording is needed—must show no deterioration with the years.

You cannot discover these qualities in a recording disc, by any yardstick we know of—except one:

Just look for the name AUDIODISC—because it assures you all the qualities named above—a combination you will not find in any other recording disc.

AUDIODISCS—manufactured by a patented, precision machine process with lacquer from a special formula, are consistently dependable. Fully controlled from raw materials to finished disc. No matter what the purpose, the name AUDIODISC is, and will remain, the measure of a better recording disc.

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