

HI-FI

MR. SYDNEY G. BROOKS
BROOKS JEWELRY
CADDIZ, OHIO

TAPE RECORDING



10 WAYS TO ENJOY STEREO SOUND

SOUND IN THE ROUND—ROBERT OAKES JORDAN

SPECIAL ISSUE: STEREO 3-D SOUND

COMPLETE STEREO EQUIPMENT DIRECTORY

COMPLETE STEREO TAPE CATALOG

December, 1956

35c



Robert Oakes Jordan

In the article reproduced here, just as it appeared in the May 16 issue of "Down Beat", Mr. Robert Oakes Jordan reports his completely unbiased and impartial findings on the vitally important subject of tape quality. A leading authority in the high-fidelity field, and tape recording in particular, his comments are of interest to all users of tape recording equipment, professional and amateur alike.

High Fidelity **DOWN BEAT**

By Robert Oakes Jordan

IT LOOKS AS though 1956 will be a year for magnetic tape recording. Perhaps it might be wise to review the subject of tape.

Looking back over the recent history of magnetic recording and its plastic tape medium, it is easy to see the progress in both.

Factors, more often than not overlooked, which are concerned with the use and storage of tape should be known and used by every person having a tape recorder.

During the last year, one of the long-term projects at our laboratory in Highland Park, Ill., has been the independent study of magnetic recording tape. We are interested in finding out just which practises in its use must be observed and how the user can best assure the safekeeping of his recorded tapes.

SEVERAL HUNDRED reels of magnetic tape from all the tape manufacturers were studied. Not more than 5 percent of this tape was submitted by manufacturers as samples. The bulk was bought by the laboratory.

In this a nontechnical report, we will tell of those factors considered most important for the tape user. It is our opinion that output consistency is the single most important factor governing the choice of any recording tape. Output consistency means that the tape must produce the same quality of sound as it is played back, month after month, year after year.

If the manufacturer has complete control of his tape production processes, then serious variation should not occur. If there are variations in the thickness of the oxide, its composition, or its method of application to the plastic base, then there will be a variation in the performance of the tape. If the user gets too little signal in playback or too much, either is a serious tape fault.

IT IS SELDOM possible for the tape user to judge the quality of the tape he uses because faults and inconsistencies identical to tape failures may be caused by poorly adjusted or maintained tape recorders. Virtually any brand of tape will provide adequate results from the majority of non-professional recorders now on the market. However, if you want professional results, then reel-to-reel, batch-to-batch output consistency is important.

In the tests, we found some remarkable variations in marketed tapes for consumer use. Among those faults found most often are these:

● *Nonuniformity of oxide coating*, causing signal-level variations or "dropouts" in which little or no signal was recorded.

● *Pits or pocket voids*, where air bubbles or dirt have caused very small pits in the oxide coating. In some cases the ring magnetization of the rim of these pits or holes will cause playback signal variation.

● *Nonuniformity of plastic base surface*, in which, if the plastic base has microscopic hills or valleys in its surface, the oxide coating, though perfectly smooth at the playing surface will vary in depth along the tape. This can cause that noise-behind-the-signal, perplexing to professional recording engineers as well as amateurs.

● *Uneven slitting*, in which the magnetic tape is processed and coated in wide rolls and must be slit to whatever marketable width is desired. Large roller knives must be employed in the slitting process. If these knives get dull or exhibit any heat change one to another, the tension of one slit edge of the tape varies from that of its other edge. This change of edge tension over the length of a reel of tape will cause erratic travel of the tape over the recording and playback heads.

● *Poor oxide adhesion to the plastic base*. While this fault is becoming more and more rare, it is still a factor to consider when buying "bargain" or used bulk tape. The drawbacks to good recordings are evident in the clogging effect of the loosened oxide powder.

After the tests, we chose Audio Tape Type 51, made by Audio Devices, which through two years of tests and use, proved to be the most consistent of all the major tapes.

audiotape

TRADE MARK

WINS INDEPENDENT TAPE TEST BY LEADING HI-FI AUTHORITY

... as reported in **DOWN BEAT** magazine



The tape test described by Mr. Jordan emphasizes two very important facts. (1) Different brands of recording tape vary widely in output uniformity. (2) Of all the leading brands tested, standard plastic-base Audiotape rated highest in consistent, uniform quality.

This outstanding Audiotape performance is the calculated result of extra care and precision in every step of the manufacturing process, from selection of raw materials to final coating, slitting and packaging. And this same uniformity extends throughout the entire Audiotape line.

Now there are 5 DIFFERENT TYPES of Audiotape, with base material and thickness to meet the exact requirements for every recording application. But whatever type you select, there's only one Audiotape quality—the very finest that can be produced. Ask your dealer for our new Bulletin No. 250, describing the newly-expanded Audiotape line. Or write to Audio Devices, Inc., 444 Madison Ave., New York 22, N. Y.

AUDIO DEVICES, Inc.

444 Madison Ave.,
New York 22, N. Y.

In Hollywood: 1006 N. Fairfax Ave. • In Chicago: 6571 N. Olmsted Ave. • Export Dept: 13 East 40th St., New York 16, N. Y., Cables "ARLAB"

YOU GET
BETTER TAPE RECORDINGS
 WITH *Electro-Voice*[®]
MICROPHONES



The vital key to fidelity in your tape recordings is the microphone. The quality of the entire performance hinges on the ability of the microphone to translate with supreme accuracy the living, breathing reality of the words and music you put into it.

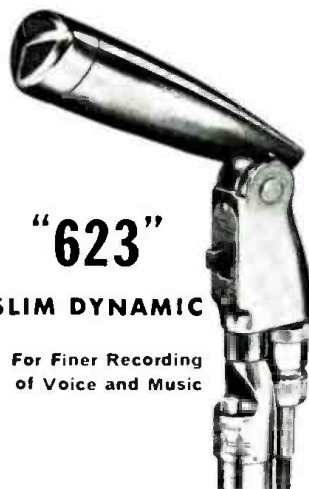
For 29 years, *Electro-Voice* has engaged in continuing research and engineering to bring you the finest. Because of skillful design, precision fabrication and manufacturing know-how, *Electro-Voice* is standard in television and broadcast stations as well as professional recording studios.

Vastly extend the use of your fine tape machine by adding a better *Electro-Voice* microphone. Shown here are but a few of the many models in the complete *Electro-Voice* line. Choose one that suits you best.



See Condensed Catalog No. 124-G69
 or ask for additional information.

Electro-Voice[®]



"623"
SLIM DYNAMIC

For Finer Recording
 of Voice and Music

Model 623 Slim Dynamic Microphone

Modern design gives smooth, wide-range reproduction. Omnidirectional. Exclusive Acoustalloy diaphragm. Very rugged, long-lasting. Has convenient "On-Off" switch. Tilttable head. Use on stand or in hand. Choice of high or low impedance simply by changing wire in connector. With 18-ft. cable.
 List Price \$55.00

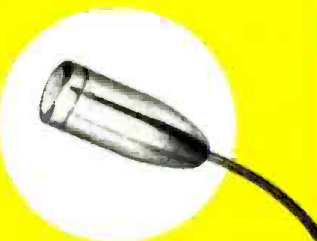
*E-V Pat. No. 2,627,558
 Licensed under patents of the Brush
 Development Co. E-V pat. pend.



For Solo and Group Pick-ups
 Model 926. Slim, modern crystal microphone. Omnidirectional. Excellent for recording parties and training sessions. Tilttable. 18 ft. cable. List Price: \$27.50



Excellent Bass for Music Pick-up
 Model 911. Mercury crystal microphone. Fine quality omnidirectional pick-up, with excellent bass response. Provides smooth, wide-range reproduction of music. "On-Off" switch. Tilttable head. With 18 ft. cable. List Price: \$32.50



For Full Freedom of Movement
 Model 924. Lavalier crystal microphone, for chest or hand use. Supplied with neck cord, support clips and 18 ft. cable. Acoustically treated for wind and moisture protection. List Price: \$20.00



To Reduce Background and Echo
 Model 950. Cardax cardioid* crystal microphone. Unidirectional. Gives sound pick-up selectivity. Increases pick-up range. Assures clearer reproduction of voice and music. "On-Off" switch. 18 ft. cable. List Price: \$47.50

For Economical All-Around Use
 Model 915. Century crystal microphone, shown in use at left. Can be used in hand, on table or stand. Omnidirectional. Rugged, lightweight. With 5 ft. cable. List Price: \$12.50

NO CLUB TO JOIN! now the TAPE OF THE MONTH

Hi-Fi Master Library is

AVAILABLE FROM YOUR LOCAL DEALER!

Never before has such a wide selection of musical favorites been made available! Critics say, and you know, there's nothing like T.O.M. tapes for sound fidelity and musical excellence. Symphonies, Operas, Folk Music, Jazz, Popular, Hymns, Rock and Roll, Readings or Novelties . . . you're sure of the best if it's a Tape of the Month.

ONLY
For a 7" reel recorded
at 7½ I.P.S. Approx.
1200 ft. Single or Dual
track

6.95

SEND FOR NEW CATALOG, AND THE TAPE OF THE MONTH DEALER NEAREST YOU! If you will send in the name and address of your photo store, record shop or Hi-Fi center, we will arrange for them to stock T.O.M. recordings.

SPECIAL CHRISTMAS TAPE!

#135—"Ye Old Music Box." Xmas favorites from a 150 year old music box in the "Bidden" collection. ONLY \$6.95!

TAPE OF THE MONTH

449 West 51 Street
New York 19, N. Y.

HI-FI

TAPE RECORDING

VOL. 4 No. 1

DECEMBER, 1956

MARK MOONEY, JR.
Editor and Publisher

JOHN L. ALLEN,
Circulation Manager

JEAN COVER
Assistant Editor

ROBERT W. LAPHAM,
Art Director

JAMES H. MILLS, SR.,
Technical Consultant

ANTHONY J. MORIN, JR.
National Advertising Manager
274 Madison Ave., New York 16, N. Y.

GEORGIA SIGSBEE
Music Editor

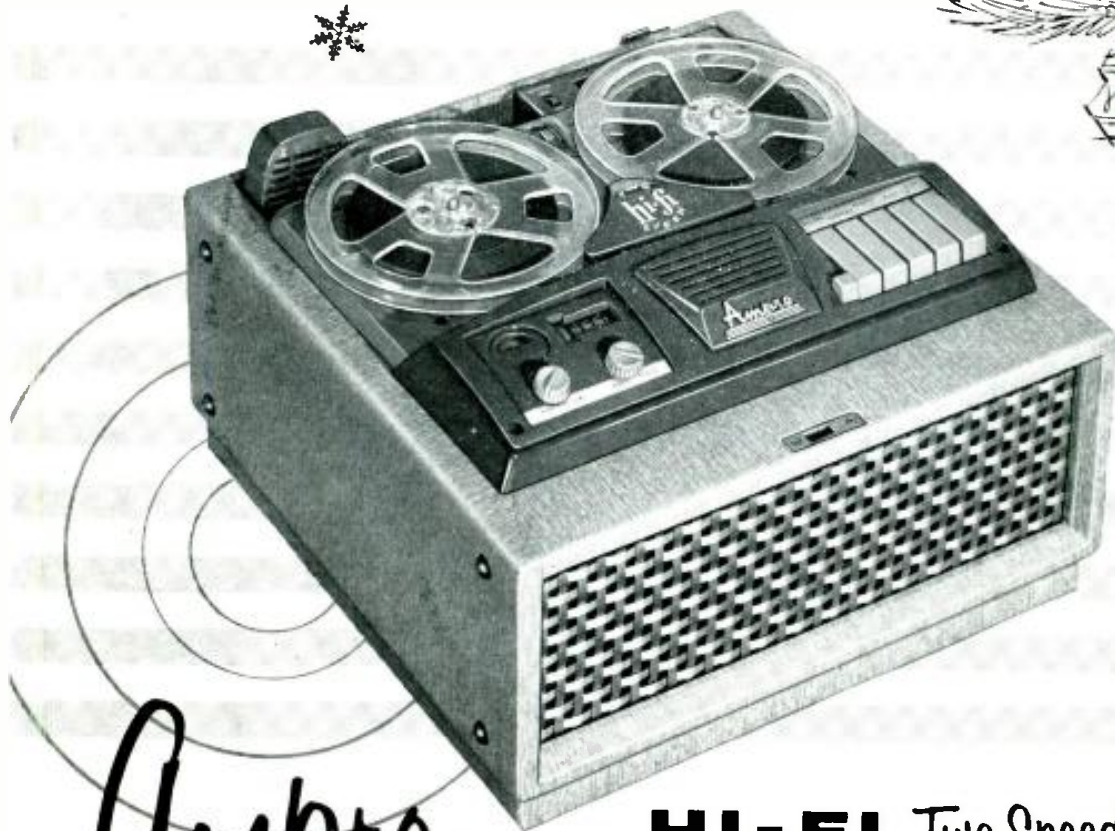
IN THIS ISSUE

10 WAYS TO ENJOY STEREO SOUND	Mark Mooney, Jr.	25
SOUND IN THE ROUND	Robert Oakes Jordan	30
STEREO—WHY BOTHER?	Jack Bayha	34
NEW STEREO RECORDER TO MAKE BOW		38
DIRECTORY OF STEREO EQUIPMENT		40
CATALOG OF RECORDED STEREOPHONIC TAPES		43
NEW TAPES	Georgia Sigsbee	6
TEEN-TAPERS	Jerry L. Heister	18
TAPE IN EDUCATION	John J. Grady, Jr.	20
TAKE 1		21
QUESTIONS & ANSWERS		22
TAPES TO THE EDITOR		23
NEW PRODUCTS		46
BOOK REVIEW		48
TAPE CLUB NEWS		49
NEW PRODUCT REPORT: MUS-ET TV SOUND TUNER.....		51
NEW PRODUCT REPORT: BELL STEREO AMPLIFIER 3DT6		52



HI-FI TAPE RECORDING is published monthly by Mooney-Rowan Publications, Inc., Severna Park, Md. (Severna Park 548). Entered as second class mailer January 7, 1954 at the Postoffice, Severna Park, Md., under the Act of March 3, 1879. National Advertising Representative: J-V Associates, 274 Madison Ave., New York 16, N. Y. (OREgon 9-0030). Subscriptions, U. S. and Possessions, Mexico, Central and South America, \$3.75 for one year; Canada add 5.50 a year; all others add \$1.00 a year. Two years \$7.00. Contents copyrighted by Mooney-Rowan Publications, Inc., 1956. Printed in U. S. A.

Have You Heard It?



Ampro®

HI-FI Two Speed TAPE RECORDER

LISTEN to the Ampro Hi-Fi recorder at your Graflex dealer's store and you'll agree that its clarity and realism truly reproduce the original performance. A cross-over network system combining two electronically balanced speakers achieves matchless realism through perfect tonal separation.

HI-FI "Tweeter-Woofler" SPEAKERS

The lower frequencies are reproduced by a 6 x 9 inch elliptical Alnico-5 "woofler" and the higher frequencies by a 3½ round Alnico-5 "tweeter." The combined frequency response is 10 to 15,000 c.p.s.

ELECTROMAGNETIC PIANO-KEY CONTROLS

Positive electromagnetic operation eliminates all mechanical linkage and provides push-button operation for starting, stopping, recording, playback and rewind. Interlocked switching makes it impossible to acciden-

Pay only 10% down... as little as \$13.50 a month

tally erase, jam mechanism, spill or break tape. Has automatic shut-off.

OTHER FEATURES INCLUDE: Electronic recording-level eye, recording speeds of 7½ and 3¾ i.p.s., safety lock to prevent accidental erasure, fast forward speed of 72 i.p.s. and automatic selection locator, fast rewind of 120 i.p.s., mixing control for professional "voice over" radio-phono sound.

DICTATING AND TRANSCRIBING

An accessory remote control microphone combined with piano-key operation makes the Ampro Hi-Fi a practical, economical dictating machine. Accessory two-way electronic foot control and monitoring earphone provide full transcribing ease.

Graflex dealers offer convenient Graflex Easy Payment Plan. Monthly payments as low as \$13.50.

Ampro Hi-Fi Two Speed Recorder.....\$249.95
 Ampro Hi-Fi with built-in radio..... 284.45
 Matching Console Speaker..... 69.95

Prices include federal tax where applicable and are subject to change without notice. Prices slightly higher in Canada.



GRAFLEX®

Prize-Winning Cameras and Equipment

WRITE DEPT. T-116, GRAFLEX, INC., ROCHESTER 8, N.Y. A SUBSIDIARY OF



introducing
VOTO TAPES

a bright new name in taped albums

DOWN MELODY LANE

with Bill Andrews
at the ALLEN ORGAN

For really mellow listening when the emphasis is on the old favorites, it's VOTO TAPES' "Melody Lane" taped album . . . featuring the deeply melodic Allen Organ for the first time on tape. You will thrill to a refreshing new style in organ music, rich in the tonal authenticity of the various orchestral instruments for which Allen Organ is justly famous. Yes . . . there's happy reminiscence ahead as you wander DOWN MELODY LANE with Bill Andrews!

hour tape includes:

SEPTEMBER SONG	Tea For Two
AUTUMN LEAVES	You're An Old Smoothie
RAMONA	Don't Blame Me Tenderly
PAPEE DOLL	You're My Everything
LAURA	Cocktails For Two
You Do Something For Me	Mean To Me
The Waltz You Saved For Me	My Ideal
Time On My Hands	Beautiful Ohio
These Foolish Things Once In A While	I'm In The Mood For Love
Body and Soul	Charmaine
My Wonderful One	Diane
	Pinthouse Serenade

7" reel (full hour) \$10.95
tapes are 7½ I.P.S. postpaid

order through your dealer now or send direct to:
VOTO RECORDING COMPANY
RICHLANDTOWN, PENNSYLVANIA

NEW TAPES

By Georgia Sigsbee

A QUESTION put to me by a dealer. "You don't have to listen to each tape all the way through, do you?" startled me into the realization that others: our readers, the companies, the dealers, might well believe this would be accepted procedure.

My thoughts fled back swiftly to the inception of TAPE RECORDING MAGAZINE three years ago when, in my estimation, the magazine courageously made the decision to be a publication devoted exclusively to those interested in the specific field of tapes and tape equipment. It took this step at a time when, for the general public, music reproduction on tape, for use in the home, was a rather intangible, elusive venture fraught with many problems yet to be overcome. The policy of TAPE RECORDING was to help this industry grow, to inform, advise, guide and suggest. So from a newborn infant, to a lusty one the tape field has now developed into an ever-growing, maturing childhood with all the evidence of becoming a strong, adult industry.

Now that the magazine has also reached the age of puberty, I feel it is only fitting to congratulate it, the companies, the readers, the dealers, and all who have helped make the tape field what it is today, and who will, in the future, make it an even bigger, better industry.

Now, although I have deviated a bit, the question put to me took me back to when, along with the magazine, the review column

started. At first there were not too many tapes to review, and so the column devoted its talents and strength to fighting the cause of improvement; from the first issue suggesting a catchy, selling name to replace "pre-recorded tape," to ideas for better packaging, labeling, annotations, introductions of new companies, etc. All this before the larger companies entered the field.

As time progressed and demand grew, so the tape reviews did likewise. The companies, from the beginning, cooperated fully by sending release lists, price information, review copies, etc., to help the column. So much for background.

Reviewing for our readers has always entailed listening to each and every tape, in toto, as it is received; then re-listening before final writeup. This does not include the many times a tape may be played for others for reaction, for pleasure, etc., before publication date. Unless one is directly involved, it is hard to conceive the time consumed listening, relistening, spot checking, double-checking on two separate systems where there is flaw of any sort, writing and re-writing and more recently, culling from library to compare tape against tape. For example this month in conjunction with nine of the reviews, eighteen tapes were actually "reviewed." In lieu of going back to past reviews and judging the present against the past, a complete re-reviewing of past tape against present one is performed. Some might brand this thorough approach as somewhat ludicrous, but it is all done in an effort to bring to the reader a complete, honest picture of each tape. A rather small example would be that in reviewing a tape we would not say it has on one track orchestra and on the other accordion accompaniment only, when actually the orchestra appears on both tracks.

A reviewer doesn't just listen to tapes and write reviews; he maintains contact and correspondence with tape companies, readers, the editor, etc. He also gives service to the reader. In three years we have had, to my knowledge, but one letter wherein the reader felt the review was contrary to what he heard. Immediately upon receipt of this information, the editor informed the tape company, the reviewer held a musical symposium with professionals attending, and found that the review was accurate. We even compared the latest LP release against the tape. We have not, as yet ascertained whether it is the equipment the owner possesses, or a faulty tape.

A reader expressed the hope that Charles' successor would be as honest and, in this respect, we feel that both readers and companies benefit from the truth, whether the review is good or bad. This latter might sound ambiguous but if a company receives a bad review, they immediately take steps to check and correct the trouble, as they are dedicated to giving us all the ultimate in sound reproduction.

Going back over the three years of reviewing (and I am prejudiced) I feel Tape Recording had a reviewer with a well-rounded knowledge of all types of music . . . it is important that if a reviewer should prefer

Largest Tape Treasury in STEREOPHONIC

First in monaural . . . first in stereophonic . . . always the quality leader in recorded tape for home music performance, LIVINGSTON is rapidly adding to its library of new stereophonic releases.

The LIVINGSTON catalogue contains the greatest diversity of recorded works ranging from the monumental classics to Jazz and Dixieland, from Bach's works for the Organ to the Rampart Street Ramblers. Included in the LIVINGSTON listings is the finest material from such famous independent labels as:

AUDIOSPHERE • BOSTON • ATLANTIC
EMPIRICAL • ESOTERIC • LIVINGSTON

ALL LIVINGSTON tapes are 1200', splice-free, on 7" reels, fully guaranteed. All tapes come in attractive individual boxes, immediately identifiable and with complete program annotation.

List Price \$11.95

ivingston

LIVINGSTON ELECTRONIC CORP., Livingston, N. J.

Here are a few of the outstanding additions to our Stereophonic Catalogue in various categories:

CLASSICAL

MOZART: Concerto No. 2, 3 for French Horn and Orch. (K.447,417), James Stagliano and Zimber Sinfonietta Boston 7-4 BN

CHORAL

STRAUSS, JOHANN: Voices from Vienna, Vol. 1, incl. Blue Danube, Sweets from Vienna, Thunder and Lightning, featuring the 106 voice Vienna Choir with Orchestral Accompaniment. Audiosphere 705 BN

ORGAN

BACH, J. S.: Toccata and Fugue in d minor, Kurt Rapf playing Piaristenkirche Organ; also contains Mendelssohn's Sonata #2, Franck's Chorale in E major Audiosphere 705 BN

POP

LENNY HERMAN: Music in Motion, Vol. 1 - Standard dance favorites with striking stereo effects. Livingston T-1088 BN

JAZZ

RAMPART STREET RAMBLERS with Wilbur de Paris, a Sensational Hi Fi recording of Dixieland tunes. ATLANTIC 7-5 BN

LIVINGSTON tapes can be auditioned at your High Fidelity—Audio Dealer or Record Shop. Send for our complete catalogue and the name of your nearest dealer.

YOUR INVITATION TO JOIN THE STEREOPHONIC MUSIC SOCIETY

HERE ARE A FEW MEMBERSHIP BENEFITS

20% SAVINGS ON STEREOPHONIC TAPE

RCA, HMV, Omega, Hi-Fidelity, Livingston, AV, Concert Hall.

20% SAVINGS ON MONAURAL TAPE

(Complete listings in "Harrison Catalogue of Recorded Tapes" or "Tape Reel." You receive a copy of one upon receipt of membership application.)

SAVINGS ON RECORDING TAPE

All first grade, professional quality, recording tape!

FREE HI-FI MUSIC MAGAZINE SUBSCRIPTION

You get 1 year subscription (*regular value \$3.00*) contains complete coverage of tape, records and FM, reviews, articles, etc.

FREE CATALOGUE OF RECORDED TAPES

Complete-up-to-date tally distributed quarterly.

NO MINIMUM PURCHASE REQUIREMENT

Order as few or as many tapes you wish.

Here's the most exciting news since you first discovered the listening pleasures of recorded tape!

AT LAST . . . you can stop wearisome shopping tours hunting for the recorded tapes you want.

The Stereophonic Music Society has been created to serve the needs of every music lover who appreciates the true fidelity and convenience of this ultimate music medium.

This unique plan offers you *one central source* for every fine recorded tape on the market, and—through its large volume purchases—passes on tremendous savings to you!

MEMBERSHIP RATES

Your entire cost for participation in the Society Purchase Plan and all the privileges described for a period of **6 Months \$6.00 1 Full Year \$9.00**

The Stereophonic Music Society opens the door to you to the finest recorded tapes in the world—offered to you as soon as it is made available by all labels—at prices you can't beat anywhere. Send in this application blank today, and enjoy the benefits of membership immediately!

MEMBERSHIP APPLICATION FORM

TO: STEREOPHONIC MUSIC SOCIETY, Inc.
303 Grand Avenue, Palisades Park, N. J.

GENTLEMEN: Please enroll me for a 6 month 1 year period as a member in the Stereophonic Music Society. I understand that I am under no obligation to purchase any specified minimum of stereophonic, monaural or recording tapes under the Society's membership purchase plan. As part of my membership I am entitled to a free one-year subscription to Hi-Fi Music Magazine, as well as the quarterly listings of all recorded stereophonic and monaural tapes available.

My Check Money Order for \$6.00 is enclosed herewith (payable to Stereophonic Music Society, Inc.) \$9.00

NAME.....
ADDRESS.....ZONE.....CITY.....STATE.....

MAKE OF TAPE RECORDER.....
 Stereophonic Stacked Staggered Monaural



SONY STERECORD

Stereo Tapes from Japan

Superb high fidelity tapes of unusual interest, produced by world famous Tokyo Tsushin Kogyo. 7 1/2 I.P.S. Stacked Heads. Now at your Dealers.

- D-2 Sony Stereophonic Orchestra; Tada-shi Hattori, Conductor — Coppelia (Delibes); Moto Perpetuo (Paganini); Polka (Strauss); Emperor Waltz \$11.95
- D-3 Shigenori Ohara and his Blue Coats—Moonlight Sonata; Carmen; Villia; You Are My Heart's Delight; Boogie Woogie in Arabian Dance (Grieg); I Look At Heaven \$11.50
- F-4 Christmas Carols, Culo Costello Male Chorus—Stille Nacht (Silent Night); O du frohliche; The First Noel; Adeste Fideles; Jingle Bells; Deck the Halls; Ave Maria (Schubert) \$6.95
- R-5 Culo Costello Male Chorus — Loch Lomond; Blauer Montag (Blue Monday); "O Isis" aus "Faubertlote"; Slavim Plavbe; Volga Boatman Song \$5.95
- R-6 Choral Selections—Serenade; Battle of Jericho; There's a Church in the Valley; Studio auf einer Reis; Kras-nul Sarafan; Stenka Razin.... \$5.05

Other I/S Products available from your Dealer: SONY ELECTROSTATIC PICK-UP, 2 and 3 CHANNEL HEADS, MICROPHONES, I/S TONE ARMS, TURNTABLES, CABINETS.

Imported and Guaranteed by
INTERSEARCH
7 Arcadia, Cincinnati, Ohio

one particular class of music, that he practice empathy . . . for instance, to those who like Stephen Foster his music is not considered "schmaltz." I guess when you get right down to it, not only a knowledge of music and recordings is necessary but a "Do Unto Others" attitude and just plain humanity.

By the way, the answer to the question was a definitive, "Yes!" We listen and re-listen to each and every tape.

CLASSICAL

- ORCHESTRAL
- BORODIN: Polovetsian Dances
- MUSSORGGSKY: Night on Bald Mountain
- CUI: Tarantella
- BALAKIREV: Tamar
- Bamberg Symphony
- Jonel Perlea, Conductor
- PHONOTAPES-SONORE PM 145
- 7 1/2, Dual: . . . \$8.95
- 3 3/4, Dual: . . . \$6.95

Four of "The Five" (sometimes referred to as "the mighty handful") are represented on this tape. Balakierv, who was mentor, teacher and the inspiration for this group of men (which included Rimsky-Korsakov) was the only professional musician. This group created and promoted native Russian music which this recording ably demonstrates.

Borodin, the chemist, died before finishing "Prince Igor" from which come the well-known Polovetsian Dances. This excerpt, containing melodic tunes of the Central Asian people, is played with a vivacious

flair typical of the excellent interpretation Perlea accords the music of Central and Eastern Europe.

The fantasy, "Night on Bald Mountain" depicting the legendary Witches' Sabbath was written by Mussorkgsky, an Imperial Guard, and after his death was revised by Rimsky-Korsakov. From the sounds of subterranean din and wild festivities, to the tolling of the far-off bell and daybreak, you will enjoy both the dynamic quality of this familiar music and the fine fidelity. Toward the finale (during clarinet solo) there is a slight hiss, but this is nothing to distract one from owning the tape.

The Florence May Festival Orchestra (Audiosphere 703) containing the same two pieces with Gui conducting, has a quiet surface, fine interpretation but sounds somewhat muddy and bassy in comparison to the Perlea reading. For a clear, lucid rendition, reaching sheer brilliance, the latter is by far the better.

The Cui composition is a light, lively little dance occupying not quite four minutes of pleasant listening time.

Those who hear "Tamar" for the first time will find portions reminiscent of Rimsky-Korsakov's "Scheherazade." Balakirev actually worked two decades composing this work but took too long to release it and so many feel the cart came before the horse, in this case. "Tamar" embodies all the feeling, sounds and impact of native Russian music which Balakirev helped bring to the attention of the world.

Coupled with Phonotapes releases PM 127 and 112 (reviewed August 1956) one



Excellent CHRISTMAS PRESENTS and for YEAR 'ROUND Use!

- Play ON YOUR OWN Tape Recorder!
- For Fine Dining Establishments!
- Sound system over Neighborhoods!
- Music for Churches too!
- For YOUR Tireless Listening!

POPULAR FAVORITES
"DINNER MUSIC"—No. DM-541—Time-tested favorites. Special arrangements and effects. Good listening music anytime. You'd go to sleep if it were not for wanting to listen to every note. SELECTIONS: Chir-birds, The Rosary, La Colombine, The Velvet Glove—Jubilant, Beautiful Oldies—An Apple Blossom Wedding, Red Sails in the Sunset, Indian Love Call.
"LIVELY OLD FAVORITES"—No. SF-542—The kind that never wears out. Special effects and arrangements add much without detracting from the melody. The Sheik of Araby, Moonlight and Roses—Waiting for the Robert E. Lee, The Velvet Glove, Hoop-La-Do—Mama Inez, Melody in F—I Wanna Go Where You Go—Jambou, Hallelujah, Beer Barrel Polka.
"MIXED FAVORITES"—No. MF-563—For those who like both slow and fast music. Time-tested favorites. Dance with one, relax with another! You'll like the arrangements and interpretations. El Rancho Grande—Twelfth Street Rag, The You Ever Think of Me—Candy Day, Irodina, Take Her To Laramie, Have You Ever Been Lonely—Music! Music! Music! The Hummel Waltz, My Blue Heaven, Autumn Leaves.
"MUSIC OF FAR AWAY PLACES"—No. MFP-5610—Take a nice trip via this good "listening" music! To Spain, Mexico, India, Italy, China, etc. Travel far—your eyes take the rest of this one! La Campanella—Chattanooga, My Chigatooni—My Sweet, Silences—Song of India, Maria, My Own—Orchids in the Moonlight—La Spagnola, O Sole Mio, Blue Hawaii, Dardanella.
"OLD POPULAR FAVORITES"—No. OPF-5611 (with many special sound effects). Some of the best old timers with a "new twist" of sound effects: real thunder storm in "Alone" a real train in "Alabama Bound" etc. You'll get a kick out of this one as well as to enjoy the specially arranged music! If You Know Susie Chase—Whispering A Smile Will Go a Long, Long Way—Some of the Islands, The Woodpecker—Some—Albany Bound—Use in a "Fading Mood" Pick of My Heart—Takes Two to Tango.

FOR CHRISTMAS
"CHRISTMAS FAVORITES"—(Miscellaneous)—Reel

No. MX-567: First half best known carols richly and reverently favored. Second half well known popular Christmas favorites. You'll really get the "Christmas spirit" from the special sound effects like the "slippery day" of the old song "Rudolph" "Red Tail Hawk" "Jingle Bells". Every home that has a tape recorder should have this reel! Exceptionally good for business establishments for amplification and for radio stations.
"LITTLE TOWN OF BETHLEHEM—Silent Night—Hark! The Herald Angels Sing—We Three Men of Orient Are—O Come All Ye Faithful—Joy to the World—It Came Upon the Midnight Clear—Blue Christmas—White Christmas—Jingle Bells—Here Comes Santa Claus—Rudolph the Red Nosed Reindeer—Santa Claus Is Comin' to Town—Winter Wonderland.

FOLK MUSIC
"FAVORITE FOLK TUNES"—No. FFT-568: The original beauty of these wonderful old tunes has been enriched by the "modern touch" as only these instruments can. Even the composers would have liked to hear them played like this. Beautiful Dreamer—Orlink to Me Only With Thine Eyes, Red Wine—Listen to the Mockingbird—I'll Take You Home Again, Kathleen—Believe Me If All Those Endearing Young Charms—Carry Me Back to Old Virginia—Love's Old Sweet Song—There's a Long, Long Trail—Old Folks at Home—My Old Kentucky Home.

FAVORITE RELIGIOUS MUSIC
"OLD FAVORITE HYMNS"—No. OFH-564 (Favorite) played—almost a "real" to worship! Good listening for home or church. For churches to amplify over neighborhoods. God of Our Fathers Whose Almighty Hand—Sweet Hour of Prayer—My Faith Looks Up to Thee—Beneath the Cross of Jesus—Softly and Tenderly—I Need Thee Every Hour—What a Friend We Have in Jesus—Some Day the Silver Cord Will Break—The Old Rugged Cross—Whispering Hopes—Let the Lower Lights Be Burning—Have Thine Own Way, Lord In The Garden.

Wheeler Studio
2109 Early Avenue, Nashville 6, Tennessee

Al Wheeler plays the ELECTRIC ORGAN, PIANO, VIBRACHORD and SOLOVOX in ensemble on High-Fidelity MULTIPLE Recordings

If you like Les Paul's Multiple Recordings, you'll LOVE these!

- "LIVELY CHORAL SELECTIONS"—No. RCS-565—Familiar favorites often used by choirs in churches and community meetings. Joyfully and vigorously played. You'll want to sing along with them! Zeal, Our Watchword—With Them For Him—Wonderful Grace of Jesus—Every Day With Jesus—The Fight Is On—Sing to the Lord a New Song—Awakened Chorus—O Grand, Christian Soldiers—Conquerors—He Is the King of Love—Blessed Be the Name of Jesus—Heavenly Struggle.
- "RELIGIOUS SOLOS, DUETS, and QUARTETS"—No. SDQ-566: Usually heard socially, but beautiful instrumental renditions. Very appropriate for churches to play over neighborhoods. Soothing home listening. Beautiful arrangements—Beautiful music! Grow Like the Lilies—Day is Dying in the West—When They Ring the Golden Bells—Let Me Forget When God is Near—When Morning Comes—The Lord is My Shepherd—An Evening Prayer—My Task—It Is No Secret.

MORE TAPES NOW IN PRODUCTION
ORDERING DATA
All tapes are processed on fresh, best quality tape. Purchased 7 1/2 I.P.S. only: Dual or Single Track.
7-inch, Single Track (approx. 30 min.) . . . \$9.85 each
5-inch, Dual Track (approx. 30 min.) . . . 6.95 each
7-inch, Dual Track (approx. 60 min.) . . . 12.95 each
with choice of TWO reels listed above.

—Postage Prepaid in United States
*You get 30 minutes CONTINUOUS PLAY on 7 inch SINGLE Track, and 2 inch Dual Track.
NOTE: Inquiries welcome from Dealers WHO PROMOTE SALES.

EXCLUSIVE DISTRIBUTORS

Listen: never before all this Webcor quality in a tape recorder at such a low price!

THE SENSATIONAL NEW

WEBCOR

HIGH FIDELITY

VISCOUNT

ONLY

\$149⁹⁵



This is hot news! The new Webcor Viscount High Fidelity Tape Recorder has all the wanted features of most top priced sets—yet it retails for only \$149.95!

Check these WEBCOR-quality features!

- Twin track single direction.
- Two speeds—3¾ and 7½ ips.
- Veeder Root type counter.
- Three-watt amplifier.
- Frequency response—50 to 12,000 cycles.
- Output jacks for external speaker and amplifier.
- High fidelity recording head.
- Full-range PM speaker.
- Edit switch.
- Safety Record Button.

See your local Webcor dealer soon. He has a full line of 1957 Webcor Tape Recorders from \$149.95 to \$289.95.

ROYAL HIGH FIDELITY TAPE RECORDER

Has two motors and two recording heads—also exclusive "no reel turnover" feature. Wide-range 6" speaker—8 watts power output. Automatic shut-off 3 position output selector switch. \$199.95.*



ROYAL CORONET HIGH FIDELITY TAPE RECORDER-RADIO

Has two motors and two recording heads—also exclusive "no reel turnover" feature. Three speakers—8 watts power output. Frequency range 50 to 8,000 at 3¾ ips, 50 to 12,000 at 7½ ips. Supersensitive AM radio tuner. \$289.95*

*Prices slightly higher West and Southwest

ALL MUSIC SOUNDS BETTER ON A

WEBCOR[®]

Chicago 39, Illinois.



If beauty moves you,

this breathtaking Christmas music is a *must* on your Holiday shopping list. *The First Christmas in Carols* is the Haydn Society's beautifully sung arrangement of the carols in sequence.

Tunes from Germany, England and France are sung in faultless English by the Societas Musica Choir of Copenhagen under Jorgen Ernst Hansen. "Out-standing Christmas music of any year," says the *New York Times*.

As captured on high fidelity, dual-track tape by Berkshire, this music conveys with clarity and ease the spirit and the meaning of Christmas. A gem for your music-on-tape library to be treasured throughout the year.

THE FIRST CHRISTMAS in CAROLS

*an exciting Christmas release
by BERKSHIRE
the leader in recorded tape*

7 1/2 IPS reel \$7.95
3 3/4 IPS reel \$5.95

Available now at your record dealers and hi-fi audio centers, or write us for the name of your nearest dealer.

BERKSHIRE

RECORDING CORP.

150 West 90th Street, New York 24, N. Y.

could own a diversified selection of short representative pieces of various composers of Central and Eastern Europe, finely portrayed by Perlea. These three tapes are highly recommended for "in between" snacks.

The clarity of instruments and the brilliant effect produced by the Bamberg Symphony make this a true high fidelity experience.

BRAHMS

Violin Concerto in D, Op. 77
Jascha Heifetz, Violin
Fritz Reiner, Chicago Symphony Orchestra
RCA ECS 4
7 1/2, Stereo, inline . \$14.95

Typical Brahmsian in its blending of warm moods and romantic essences, this violin concerto, the only one Brahms wrote, is beautifully performed by the team of Reiner and Heifetz. Brahms worked on this difficult composition with Joseph Joachim the great violin virtuoso, who greatly influenced the scoring of violin passages. Inspired while at Pörschach-am-See, near the Italian frontier, this concerto embodies all the beauty Brahms found in this lovely, scenic spot.

In the solo work Mr. Heifetz shows his technical facility and finesse. He furnishes the solo cadenza, as do many artists when playing it. During the third movement, which has a Hungarian folk flavor, Mr. Heifetz executes the intricate double and triple stopping and arpeggios with complete dispatch and is rendered fine orchestral assistance.

The relationship between soloist and orchestra is well-balanced (the soloist is not as close-in as, say, in the LP with Milstein) and all in all this is a rewarding experience, aurally, emotionally and reproductively. The usual excellent RCA engineering job resulting in life-like sound.

SYMPHONY

BERLIOZ

Symphonie Fantastique
Charles Munch, Boston Symphony
RCA GCS
Stereo, Inline . . . \$18.95

Composed in 1830 during a period of unrequited passion, Berlioz has pictured a young musician who poisons himself with opium and sinks into a deep sleep wherein he has strange visions. In this "nightmare" state he visualizes the woman he loves by a musical theme, the "Idee Fixe" and this is woven throughout the symphony in varying moods. The symphony is in five distinct parts: 1. Reveries, Passions; 2. A Ball; 3. Scenes in the Country; 4. March to the Gallows, and 5. Dream of the Witches' Sabbath.

The entire symphony is well executed. Mr. Munch and the orchestra being in complete rapport throughout. The instruments are clear and live; the strings mellow, horns sharp and clean, and, for the ultimate in solo instrumental reproduction, I call your attention to the harp in the second movement and the bells in the fifth. What an aural impact!

In the third movement Mr. Munch is at his best portraying the pastoral scene with lovely tonal coloring and warm feeling. The duet of two Shepherds calling their flocks (English horns answered by oboes), the

sonorous cellos and resonant basses, all brought into full play, make this a movement which should satisfy all . . . musically and technically.

The extensive instrumentation and bold, vivid quality of this symphony, coupled with the widespread stereophonic sound make this a high fidelity dream. The engineering is flawless. Being prejudiced for this work, musically, I find it a pleasure to give this a top recommendation.

Interpretatively speaking, Munch does a fine job. I, personally, feel Ormandy derives more from the scoring, packing quite an emotional wallop particularly during the "March" which is more ominous and the finale which conveys the wild, sinister orgy with full feeling. However, the Boston Symphony comes through with flying colors.

ORCHESTRAL-SYMPHONY

HAYDN: Toy Symphony
MOZART: Eine Kleine Nachtmusik, K. 525
A Musical Joke, K. 322

Pro Musica Chamber Orchestra, Stuttgart
Rolf Reinhardt, Conductor

PHONOTAPES-SONORE PM 148

7 1/2, Dual: . . . \$8.95

3 3/4, Dual: . . . \$6.95

Performed in a light, capricious mood, this bagatelle by Haydn (or as recent research indicates, by Leopold Mozart) satisfies the puerile demands of the young and affords a thoroughly delightful experience to the older.

The acoustics produced by rackets, birds, trumpet, whistle, cuckoos, etc., are clear, well-defined and something to hear via high fidelity.

A well chosen companion piece is Mozart's satirical "A Musical Joke." If one desires a humorous and frivolous interlude, these two pieces should satiate. The orchestra gives an excellent rendition of the "Joke" and the instruments stand out in bold relief, blithely out of tune, off key and all! In the adagio cantabile, the solo violin rates special mention. Played with mastery and finesse, one can't help but smile during the finale to this movement where the violin plays such sour notes and both soloist and orchestra actually make one feel they are trying to "told their tents and steal quietly away."

In contrast, Mozart's popular "Eine Kleine Nachtmusik," is given a well-polished, balanced reading by Reinhardt and the orchestra. Of the three tapes on hand containing the same piece, the London Mozart Ensemble under Vicars (Alphatape 1-4) gives a smaller, more intimate version, but the tape is a bit bassy. The Sorokin Symphonette (Webcor 2923-3) renders a full, clear interpretation. The Phonotape leaves nothing to be desired in any way, so it's up to you.

The entire tape rates tops for both children and adults.

PIANO

RACHMANINOFF IN STEREO

Rhapsody, Opus 43, On a Theme of
Paganini

Soloist: Francois D'Cote

Assisted by: String Ensemble de Paris

BEL CANTO

Album #2

7 1/2, Stereo, Inline or staggered . \$9.95

The theme used as the basic foundation of this Rhapsody was taken from the last of the Paganini Caprices for solo violin. Composed in 1934, it was first performed by the Philadelphia Orchestra, under Stokkie's direction, at the Lyric in Baltimore with the composer as soloist.

In this composition appears the liturgical melody, "Dies Irae." This theme is carried by the piano in the 7th and 10th variations and in the finale the whole orchestra brings it to a brilliant climax. As an aside, but tying in with the month's reviews, you will find the "Dies Irae" given a burlesque parody in the finale of the Berloiz Symphony.

Monsieur D'Cote performs the Rachmanoff works with exceptional talent, possessing a sure, deft touch at the piano.

The separation of instruments is bright and keen and proportion via stereophonic sound is perfect. A high fidelity thrill.

JAZZ

KAZ JAZ

Crazy (er) Rhythm
I Fall in Love Too Easily
The Lady is a Tramp
Incense (Kaz Original)

The Fred Kaz Trio
Peggy Taft, vocalist

CONCERTAPES #507

7 1/2, Stereo, Inline or staggered, 5" reel

Available both in stereo and monaural (#406) versions, this Chicago trio and vocalist bring you jazz arranged in a clever, intimate style. Featuring Fred Kaz, piano; Dick Tyler, percussion; Lee Harvey on bass and interspersed with two vocal numbers by Miss Taft, you will thoroughly enjoy hearing this group and, perhaps, wish as I did that the tape had been a longer one.

Kaz has a clean touch at the piano and reproduction of the instrument is distinct. He gives a slow, dreamy arrangement to "I'm Glad There is You" and tops off the reel with one of his own numbers which has plenty of fire to it. Dick Tyler handles the percussion well, at times seems almost a little too close-in, and Lee Harvey beats it out on the bass . . . and dig that bass! Peggy Taft, who is currently featured as vocalist on the Russ Morgan TV show, sings in a pleasant, smooth style. A near, balanced trio with the added touch of a good vocalist.

The separation of instruments is good, the sound spread. You can sense the piano is to the right, the drums and bass to left. Miss Taft seems dead center (or just off to right) and the overall effect is good.

You'll find this "combo" an entertaining addition to your tape library. Fidelity is tops.

POPULAR

SWINGIN' EASY

The Modernes
Five Foot Two
Besame Mucho
Song of the Vineyards
Surrey with the Fringe on Top
Dansero

Diane Thamm, percussion
Sam di Gangi, accordion
John Kent, bass
"Sir" John Geoffrey, vibraphone

CONCERTAPES #508

7 1/2, Stereo, Inline or staggered, 5" reel
(also available Monaural #405)

From the moment this tape starts you are in the swing with this talented quartet. Their arrangements are fresh and stylish, clever and the live, room-filling sounds that emanate from the speakers are enough to bowl you over. This is a less intimate combination than the Kaz trio; the Modernes deliver with much gusto and drive and you may find, as I did, that this tape is even a bit more impressive stereophonically.

Thamm does top work on percussion throughout maintaining a beat that is bound to impress you, particularly in "Dansero" which is a showcase for him, containing tingling bongo arrangements. If this particular piece doesn't get you, nothing will!

Not listed on back of the package (but it appears on the label on reel) is a catchy tune, with Polish or Hungarian flavor, called "Song of the Vineyards." Was not familiar with it, but sure do like it. The rendition of "Foggy Day" with chime effects which transport you to the city infamous for that murky condition of the atmosphere, is different and well done.

All the men play skillfully, both individually and together. You might be reminded of the Art Van Damm quintet, however, this quartet is hard to beat . . . they jell just right. Frankly, I have to stop myself from playing this tape over and over, it's that good. Don't miss it, it comes highly recommended in every respect.

SELECTIONS FROM THE BOOK OF PSALMS

Read by Alexander Scourby
Produced by Harvey Carter

OMEGATAPE 10001, The Lectern Series
7 1/2 ips, dual track

There is not too much that can be said about this tape but there is a lot that can be said for it. Even that can be stated very shortly—we don't know how it could have been done any better. Reading the Psalms is David Scourby who has a voice of great power but keeps it controlled at all times. He uses his voice as a musician uses an instrument and the result is that this tape is one of the finest readings of Biblical material that we have heard. Included on the tape are Psalms 104, 8, 15, 139, 91, 90, 42, 22, 51, 123, 142, 130, 40, 116, 98, 30, 148, 37 and 23. The last is by far the most familiar and the others have been wisely selected to bring out all facets of the Psalms themselves. It is as suitable for use in a church as it is in the home—and that's very suitable.

DINNER MUSIC

Played by Al Wheeler, electric organ, Vibrachord, Solovox and Maracas in ensemble.

Wheeler Studio, Vibratape DM-561

Nine selections are featured on this very pleasant tape including, Beautiful Ohio, Red Sails in the Sunset, Indian Love Call and La Golondrina. All of the numbers are multiple track recordings as Mr. Wheeler makes successive recordings on each of the instruments listed above. We found this to be a very listenable reel with sort of a folksy flavor. It makes very pleasant background

If time stands still

when you listen to great music superbly recorded, then Berkshire high fidelity tapes are a must for your music library.

Most Berkshire tapes are priced at a low \$6.95 for a complete 7 1/2 ips, dual track, 7" reel and are available at record dealers and hi-fi audio centers. Or write us for a complete catalog and the name of your nearest dealer.

A few outstanding selections from Berkshire's recently released Second Edition:

PIANO CONCERTO #17 IN G;
K 453 and VIOLIN CONCERTO
#4 IN D; K 218 (Mozart)
Dumbarton Oaks Orch.,
Schneider, Soloists
BH-1007 \$6.95

THE GURRELIEDER (Schoenberg)
New Symphony Society of
Paris, Chorus & Orch.
Leibowitz, Soloists
BH-1012 (complete on
2 reels) \$13.90

ORGAN MUSIC, VOL. 1 (Bach)
Viderø on the organ
at Sorø, Denmark
BH-1019 \$6.95

SYMPHONY #5 IN E MINOR,
"NEW WORLD" (Dvorak)
Oberammergau Festival
Orch., Schwertfeger
B-2118 \$6.95

HIGHLIGHTS Volume 2 now available (as well as Volume 1). Through your dealer or direct for only \$1.50 each 7 1/2 ips, 5" reel.

BERKSHIRE
RECORDING CORP.

150 West 90th Street, New York 24, N. Y.

music as the tunes are neither flashy nor brash. As many as seven separate dubbings are made on some numbers and the task of synchronizing them all is formidable indeed.

HOLIDAY MUSIC

MERRY CHRISTMAS CAROLS

Pipe Organ and Dual Chimes
Robert Rheims

BEL CANTO

7 1/2 Stereo, Inline ... \$11.95 (#702)
7 1/2 Dual, Monaural ... \$ 6.95 (#701)

This tape features Robert Rheims at the Mighty Wurlitzer Pipe Organ at Columbia Square in Hollywood accompanied by a fine integration of hammer-struck chimes and the Maas-Rowe electric Carillons. Containing twenty traditional carols of the season beautifully reproduced and presented, this

is a must for home, commercial outlets, or for anyone possessing a tape machine. Guaranteed to convert a Scrooge into a more angelic personality.

You will find yourself singing to "Joy to the World," "Silent Night," and such numbers as "I Heard the Bells on Christmas Day."

CHRISTMAS CAROLS

Culo Costello Male Voice Chorus
Stille Nacht
O du Frohliche
The First Noel
Adeste Fideles
Deck the Halls
Ave Maria (Schubert)
Jingle Bells

SONY STERECORD, F-4

Tokyo Tsushin Kogyo, Ltd.
7 1/2 Stereo, Inline

An interesting and timely addition this month is the above tape from Japan, imported by Intersearch, Cincinnati, Ohio. This is a small chorus but via stereo sound quite adequately fills the end of the room with pleasant, temperate renditions of each of the songs.

"Stille Nacht" (Silent Night), "O du Frohliche" (Christmas Hymn) and the "Ave Maria" are sung in German, the rest in English. The first two selections are straight choral work while the remainder have soloist and chorus. As accompaniment on the first four pieces I would surmise a harmonium (small reed organ) is used while on the last three the piano is employed. The stereophonic result is good and tape surface is quiet.

THE SOUND OF CHRISTMAS

John Halloran Chorus
CONCERTAPES, INC. #505
Stereo, Inline or staggered

This tape was rushed to us by Concertapes just in time to meet the deadline. The John Halloran Chorus renders a delightful, melodious performance of Christmas carols.

There are seven selections contained on the tape.

Fine choral works with musical sequences from one carol to another, give a fluid continuity to the entire repertoire. Voices and instrumental works via stereo produces good over-all sound. Clear fidelity. Heartily recommended for the Christmas season.

FOLK MUSIC

Played by Al Wheeler, electric organ, Vibrachord, Solovox and Meracas in ensemble.

WHEELER STUDIO, VIBRA TAPE FFT-568

These tunes are all time favorites and Mr. Wheeler's treatment of them is pleasant. You'll find yourself whistling to numbers such as: Red Wing, Love's Old Sweet Song, Old Folks at Home, Listen to the Mockingbird, etc. The combinations of instruments, all of which Mr. Wheeler plays in successive dubbings on the same track seem well suited to these old time tunes. The playing is in a relaxed style that makes for easy listening. As with any potpourri of selections such as this some are superior to others on the reel.

FLAMENCO GUITAR

Almoradi
Falsetta Al Bordon
Recuerdo a Sevilla
Alegrias del Alosno
Fantasia Onubense
Sarracena
Sevillanas

Played by Mario Escudero

PHONOTAPES-SONORE PM 5008

7 1/2, Dual: \$6.95
3 3/4, Dual: \$4.95

Escudero plays with skill and warm ease seven original Andalucian and Cante Hono numbers. The vivid feeling he imparts with this instrument shows his mastery of it. During "Falsetta Al Bordon" he transmits a sense of quiet beauty and in "Recuerdo a

7 brilliant NEW
releases of the sensational

pre-recorded

BINAURAL

stereophonic

TAPES by

Concert Hall Society

PLUS an exciting
BINAURAL
TAPE SAMPLER



All Concert Hall Society Binaural Tapes are 7" reels, 7 1/2 ips, available for either stacked or staggered heads. Positive color identification is provided by the color of the reel material—clear plastic for stacked, yellow plastic for staggered. And note these Concert Hall extras:

- All CHS Tapes bring you complete works
- All CHS Tapes come with full program notes
- All CHS Tapes are splice free
- All CHS Tapes are packed in attractive boxes
- All CHS Tapes are of highest fidelity



45 Columbus Avenue

CONCERT HALL SOCIETY
BINAURAL
(STEREOPHONIC) TAPES

New York 23, N.Y.

The initial release of Concert Hall Binaural Tapes was a huge success—you gave them a terrific reception! We promised more on schedule and here they are—seven more beautifully recorded, high-fidelity binaural releases, listed below.

PLUS an unbelievable

BINAURAL
TAPE SAMPLER

by Concert Hall Society only **\$4**

generous excerpts from FIREBIRD, EL AMOR BRUJO, RHAPSODY IN BLUE, VERDI REQUIEM, NUTCRACKER SUITE, FINLANDIA, DOWN THE MIDDLE WITH JIMMIE McPARTLAND

Full 1200', 7" reel, 7 1/2 ips stacked or staggered. Bound to please, and it's yours for the manufacturing cost—just \$4! See your dealer soon!



BN-14 Handel: Water Music (complete)

BN-15 Tchaikovsky: Nutcracker Suite—Sibelius: Finlandia

BN-16 Barrelhouse and Blues

BN-17 Lehar: The Merry Widow

BN-18 Verdi: Requiem

BN-19 Rachmaninoff: Piano Concerto #2 in C minor

BN-20 Brahms: Violin Concerto in D Major

Additional tapes will be released by the time you read this advertisement! Keep up to date—write for your free copy of the latest Concert Hall catalog!

Concert Hall Binaural Stereophonic Tapes are available at record dealers and hi-fi audio centers, or write for the name of your nearest dealer.

A NEW SENSATION IN SOUND!

**High Fidelity
Tape Recorder
by RCA Victor
only \$199⁹⁵**



SIS SPEAKS FOR HERSELF . . . and you can enjoy it forever, just as you hear it today. Three speakers give you high fidelity playbacks.



AS YOU LIKE IT. Music, from Bach to bop, is on RCA Victor Hi-Fi pre-recorded tapes.



BLOW YOUR OWN HORN, then hear the playback to help improve your playing.



LAUGH OF THE PARTY. Watch guests' faces when they ask, "Is that really me?"

Take "pictures in sound" with this fine three-speaker recorder

CLICK! Easy as taking a snapshot. You press a button and the sound is yours forever — exactly as you hear it today. Why *exactly?* Because this is an RCA Victor New Orthophonic High Fidelity Tape Recorder — with advanced features from the world's finest sound engineers.

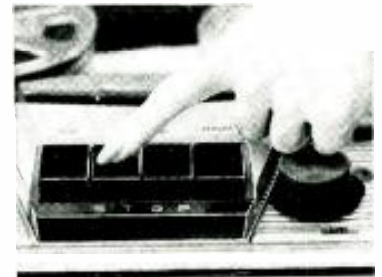
For example, you can record at 2 speeds—one for music—one for voice. A numbered, window-type counter-wheel lets you locate any part of any recording. And push-button

control makes operation a snap. There's even provision for remote control.

But it's the playback that's most amazing. RCA Victor's Panoramic three-speaker High Fidelity Sound System actually makes you sound like you!

For proof, visit your dealer's now. He'll give you a convincing demonstration of this new RCA Victor *Judicial*, Model 7TR3, \$199.95. You'll want to start your "family album of sound" then and there!

Other RCA Victor tape recorders include a portable model at \$159.95 and a deluxe High Fidelity console on clear plastic wheels in mahogany finish (light rift oak finish, slightly higher) at \$279.95.



PUSH-BUTTONS DO IT! Here's the professional quality tape recorder an amateur can run. Buttons control "Rewind," "Playback," "Forward," "Recording," "Stop." Gray simulated leather case.

RCA VICTOR
TRADE MARK © RADIO CORPORATION OF AMERICA



Manufacturer's nationally advertised list price shown, subject to change

For Making
Modern,
High Fidelity
Recordings

the new

REK-O-KUT

Imperial



the new
PROFESSIONAL
DISC RECORDER
featuring:

- ★ **NEW** Overhead Recording Lathe with provision for run-in and run-off grooves.
- ★ **NEW** Vertical Cutting Head (50 to 10,000 cycles).
- ★ **NEW** Rek-O-Kut Playback Arm Model 160 for records up to 16".

Complete (less microphone) **\$599⁹⁵**

slightly higher West of Rockies

Records Live, 'off-the-air', from
tape or other disc recording.



Write for features and Specifications to Dept. WJ-24

REK-O-KUT Company
38-01 Queens Blvd., L.I.C., 1, N.Y.

EXPORT: Morhan Exporting Corp. 458 Broadway, New York 13, N. Y.
IN CANADA: Atlas Radio Corp. 50 Wingoid Avenue, Toronto 10, Ontario

Sevilla" and the Spanish dance, "Sevillana" the pulsing rhythms idiomatic of the Spanish music are brought into sharp focus. His fingering is strong and sure and the sounds that emanate from the Flamenco guitar are ones you will want to hear again.

The reproduction of the instrument is clean and bright. A fine tape, musically and technically.

NOVELTY
CAROUSEL BAND ORGAN

Album #1
BEL CANTO
7 1/2, Stereo, Inline or staggered ... \$9.95

Listening to the fine old Wurlitzer Band Organ play such tunes as "Lovin' Sam," "Homesick," "Toot Toot Tootsie," and many, many more, you find the only thing lacking is the merry-go-round itself. I warn you if the children hear this you will be besieged with requests to take them to the local one, if such exists.

This particular organ has been in operation since it was installed back in 1924 by Ross R. Davis at Lincoln Park, California. On the back of tape package appears breakdown of the instrument which makes fascinating reading and just to whet your appetite the instrumentation includes 6 eight-foot stopped pipes, 6 eight-foot open pipes, bass drum, cymbal, crash cymbal, snare drum, etc. The melody contains 44 loud violins, 44 soft violins, 22 bells, 22 flageolet pipes, 22 piccolo pipes, etc.

This is thoroughly entertaining and will appeal to all ages. The fidelity is splendid and by way of stereo sound you can close

your eyes and obtain a vicarious thrill by riding 'round and 'round on your favorite steed—hope you catch the brass ring!

MISTER ZITHER

Anton Karas, Zither
Vienna Amusement Orchestra
Hans Hagen, Conductor

OMEGATAPE 2001
7 1/2, Dual: ... \$9.95

You will find on this tape a perfect blending of orchestra and zither playing Middle European melodies which will make your heart lighter, your feet tap and you might even find yourself reaching for the wine glass pictured in the very artistic layout on the package.

Mr. Karas performs with skill and spirit as does the Vienna Amusement Orchestra. The arrangements are par excellence. Notice the trumpets intro to "Lili Marlene." The orchestra may remind you of Mantovani, especially in such pieces as "White Lilacs," "Lobau," and "Vienna, Vienna, Only You."

Examples of Schrammel music (typical Viennese small bands; usually zither, accordion and violin) will be found throughout tape, i.e., "Specialties of Vienna." Mr. Karas renders two of his works on Track A, "Slow Coach" (you'll recognize it as the pop song "Slow Poke") and "Zitta Ditta."

Throughout the fidelity is clear and smooth, the strings literally sing, all instruments are clear and vivid. You couldn't ask for higher fidelity reproduction.

If you would like to spend a delightful time in the atmosphere of an Austrian garden-restaurant this is the tape for you.



'The sound of
CHRISTMAS'

ALL CONCERTAPES are packed in exclusive "Stor-a-Tape" round plastic containers, a protective practical, decorative addition to your library shelf.

"The Sound of Christmas" Stereo Reel No. 505, \$7.95. Monaural Reel No. 407, \$3.95.

The Ideal Gift for
Tape Collectors . . .

CONCERTAPES "Stor-a-Tape" boxes of high-impact plastic keep dust out, moisture in . . . provide center support for reels to 7". Each is complete with four colorful labels—one for the front, two for the rims and a fourth for mailing without need for additional sealing or packing. Just 75¢ at your dealer's.

Write for current Concertapes Catalog.

CONCERTAPES captures the spirit of Christmas in "The Sound of Christmas," newest stereo recorded tape release by this pioneer in stereo. The John Halloran Choir is featured with the Concertapes Orchestra directed by Leonard Sorkin in a tape you'll treasure for its unique especially-for-stereo qualities. Here is realism, motion, reverence and revelry; here is the solemnity and joy of Christmas—on tape.

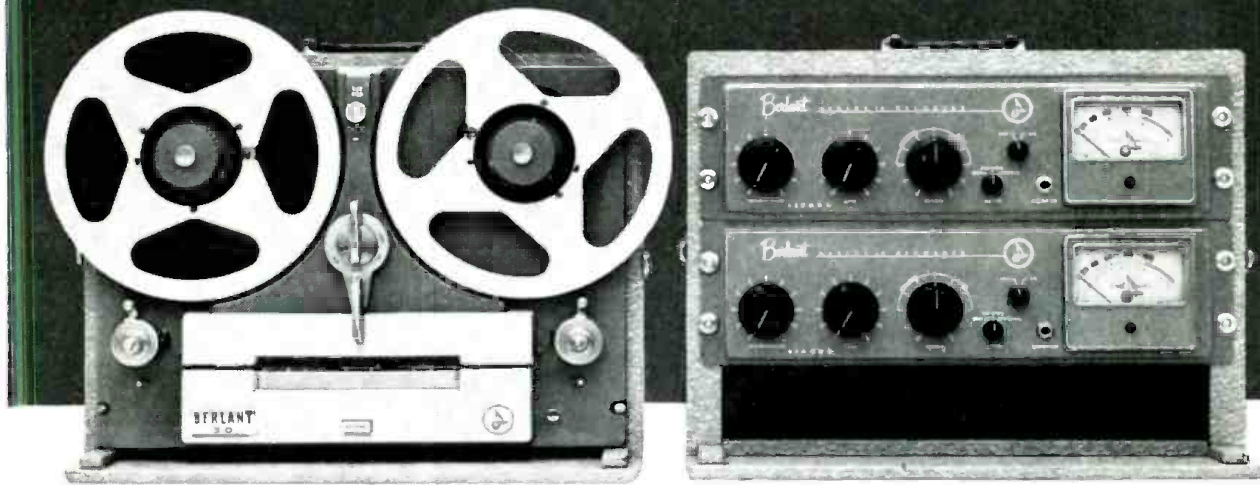
Other recent CONCERTAPES releases: KAZ-JAZ, the moderately progressive music of the Fred Kaz Trio with Vocalist Peggy Taft; SWINGIN' EASY, danceable music by The Modernes—pop and standard selections; Richard Pick, classical Spanish guitarist in a unique stereo solo reel. These are available—as are all CONCERTAPES—in staggered or in-line stereo or monaural versions.

26 CONCERTAPES Titles—a single source for a complete library of the newest and finest in recorded tapes. Selections by the Fine Arts Quartette, Sorkin Symphonette, Concertapes orchestra.

CONCERTAPES, Inc.

HIGH FIDELITY RECORDINGS ON TAPE
522 Green Bay Road, Winnetka, Illinois
Winnetka 6-6785

Now! **ONE** Berlant-Concertone Recorder does the work of **THREE**



The 36ST Berlant Deluxe Recorder is ideal for radio station use. Delivers performance characteristics for the most exacting quality use. Hysteresis synchronous drive model — (99.8% timing accuracy). Frequency response 40 to 15,000 cps at 15 ips \pm 2db. Save the cost of a second recorder plus savings in space, operator time and tape. Perfect for the station planning stereo tape broadcasts on AM and FM simultaneously.

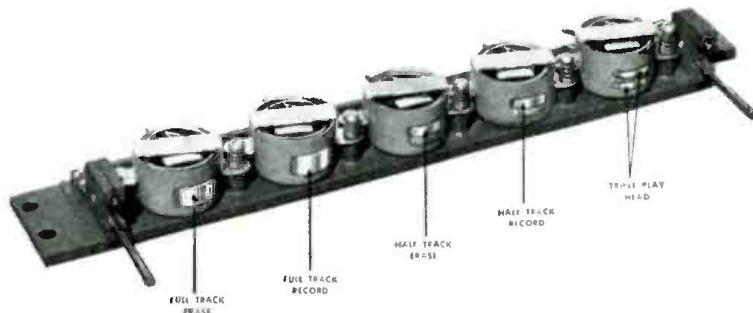
For the Advanced Audiophile

the Concertone Custom Recorders answer recording and playing needs for years to come. Full professional features include use of 10% reels, editing and cueing, 4 $\frac{1}{2}$ signal level meter, 3 mutors, monitoring from tape while recording, 2 channel input mixer.

Take Time to Pay...

Terms to meet your budget on all models. (Model 22) As low as \$49.50 down, \$7.50 per week, 24 months to pay.

THIS NEW STEREO TRIPLE PLAY HEAD DOES IT— Plays Full Track, Half Track, Stereo

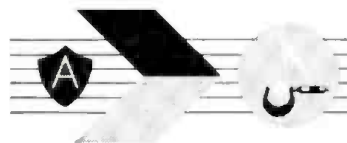


Head Compliment Model 26ST and Model 36ST. Another exclusive development of the superb engineering laboratories of American Electronics — America's foremost manufacturer of electronics for military, home and industrial use.

**TWO SPECIAL OFFERS
FEATURED NOW
BY YOUR
BERLANT-CONCERTONE
DISTRIBUTOR**

- 1. FREE**— \$50.00 worth of recorded tape with the purchase of any B-C recorder.
- 2. SAVE**— \$73.50 on a new \$93.50 Concertone Custom Microphone.

Offers limited and may be withdrawn without notice. See your Berlant-Concertone distributor today for your FREE tape library or for the microphone savings... featured at the dealer stores listed on opposite page. Write for new 6-page brochure No. 4-0.



Audio Division Dept. 15-ND
AMERICAN ELECTRONICS, INC.
655 West Washington Blvd.
Los Angeles 15, California

When only the best is
good enough...

Soundcraft

magnetic recording tapes on

magic "Mylar"* base



Model's outfit by Mme. E. Grange
Car by Jaguar
PLUS 50 by Soundcraft



For true high fidelity now – and from now on – choose from
these Soundcraft tapes. All are made with Oscar-winning
Soundcraft oxide on extra-strong "Mylar" base.

PLUS 50 – get 50% longer play

PLUS 100 – twice as much on a reel

"LIFETIME" – guaranteed for life

FOR EVERY SOUND REASON

REEVES **SOUNDRAFT** CORP.

10 East 52nd Street, New York 22, N. Y.

*DuPont trademark

Hear with
both ears!



From V-M . . .

STEREOPHONIC SOUND AT A POPULAR PRICE!

Now you can afford to enjoy the pleasure of stereophonic sound, the kind you've heard in theaters. Binaural tapes let you "hear with both ears" the way you hear a live performance.

Binaural 'Celeste' table-model high-fidelity tape recorder (left) teams with any amplifier-speaker system to play binaural tapes. Designed as the perfect companion-piece for the fabulous 'Fidelis'® Model 560 phonograph. 'Celeste' also records and plays back monaurally. V-M Model 750 in Blonde or Mahogany fine-furniture finish, \$259.95. Legs optional.*

The Fabulous 'Fidelis' high-fidelity table-model phonograph (right). It's the perfect "music-mate" to team with 'Celeste' for binaural playback. Has 'Super-Fidelis' 4-speed changer with Siesta-Matic, three speakers and V-M tone-o-matic®. Model 560. Blonde or Mahogany \$149.50. Walnut or Ebony slightly more. Legs optional.*

Purely for Pleasure, see and hear these V-M "Matchmates" at your neighborhood V-M Dealers.

**Slightly higher in the west.*

the **Voice**  of **Music**®

V-M CORPORATION • BENTON HARBOR, MICHIGAN

World's Largest Manufacturer of Phonographs and Record Changers

the Magnificent Ferrograph

The world's finest hi-fi tape recorder



Series 3A/N

audiophile net \$379.50

professional quality at nominal cost

The world-famous FERROGRAPH magnetic tape recorder, designed and developed primarily for professional use, has been re-styled for YOU — the discriminating audiophile, the progressive educator, the efficient businessman, the music lover.

Standard equipment with the British Broadcasting Corporation, it is a byword with cultural, educational and scientific users throughout Europe. The FERROGRAPH is unconditionally guaranteed to meet the most critical performance requirements.

Two models of this versatile dual-speed, dual track recorder are now available in LIMITED QUANTITIES, with tape speeds of 3 3/4" and 7 1/2" or 7 1/2" and 15" per second. Both models feature the employment of a synchronous hysteresis capstan motor providing unparalleled long-term speed stability, thus avoiding pitch errors on playback.



ALL FERROGRAPH RECORDERS AND TAPE DECKS have three motors. Custom installation models with tape speeds of either 7 1/2 and 15 ips or 3 3/4 and 7 1/2 ips are available. (Custom model 66/H illus at left).



Write for performance specifications and the name of the franchised dealer in your area.

ERCONA CORPORATION
(Electronic Division)

551 Fifth Ave., Dept. 27 New York, N. Y.

In Canada: Astral Electric Co., Ltd.,
44 Danforth Rd., Toronto 13



TEEN TAPERS

BY JERRY HEISLER, National President

IN an issue devoted exclusively to stereo and its pros and cons, I felt that it should be my place to do some exploring into this medium on my own. Fruitful exploring it was, for I discovered some of the most rewarding experiences I've yet come across in tape. It's one thing to talk about something and read about it, but it's entirely different, and much more fun in this instance, to find out about it first hand.

The Voice of Music Corporation of Benton Harbor, Michigan, was gracious enough to loan me their model 711 recorder plus the matching bass reflex speaker with which to do my experimenting. This unit is a standard monaural recorder and playback machine, but it is further equipped with an extra head accommodating the stereophonic tapes for playback. I found it an extremely fine piece of equipment to work with, but more about that later. Mr. Leonard Sorokin of Concertapes, one of the pioneers in the stereophonic tape production, loaned me 22 reels of stereo tape. Thus equipped, I set out to explore the hidden wonders of stereophonic sound. To state it briefly, it's simply tremendous. It is hard to adjust to the sensation that sounds are travelling from one part of the room to the other. You notice that the drummer seems to be in one corner while the piano is in another, as in the actual layout of the band. Listening first to a regular monaural tape in which all of the music comes from one speaker, and then playing a stereo tape, the difference is amazing.

Using the V-M plus a Revere recorder as the second amplifier required, I marvelled at how realistic everything sounded. Naturally, all recorded sound is only an illusion, an attempt to duplicate the original, but stereo comes so close to exactly duplicating it that I found myself looking for the singer, or picking out the instruments of the band in their various locations. One of the Concertapes entitled "Tempo Nuevo" featured Latin music. The maracas, claves, bongo drums, and other traditional Latin rhythm instruments were so realistic sounding that I couldn't help but want to dance to the music. This is certainly one element of stereo that will be of interest to teens. We all know how much more enjoyable it is to dance to a "live orchestra" rather than records. Now, through stereo tapes, you can reproduce the "live music" in such a manner that you won't know the difference. Perhaps the most striking tapes I heard were two reels entitled "Sound In the Round." These reels contained common everyday sound effects. This is perhaps the best illustration of the stereophonic effect that can be obtained. We have all heard train sounds, sirens, and the like over the radio and TV, but not until you hear the train approaching at the far right, the wheels

grinding to a stop in front of you, and then the whistle sounding and the train pulling off to the left, do you appreciate what stereo is. There was also the sound of a common ping pong game in which I found myself turning from left to right following the ball which I imagined was there. Excellent entertainment and a very fine illustration of the realism of stereo sound. It's hard to describe the sensation, the wandering sounds, and the amazing realism, and you must certainly hear it yourself to fully appreciate it.

Basically, a stereo tape is made by recording two separate segments of the sound on two tracks of tape and playing them back at the same time. As you all know, tape has two tracks. By using two microphones instead of one, and a special type of recorder, a recording of the left part of the orchestra is made on one track, while the right side is made on the other track. Using the special playback consisting of the special recorder, plus a separate amplifier and speaker, you recreate the program exactly as it really sounded. You may use any already existing amplifier in your home for the extra unit. I used my other recorder, but a console phonograph, hi-fi, television, radio or what have you are all suitable. You in effect play back two separate recordings at once, putting the third dimension into the sound.

To you who have never heard it, it is similar to stereophonic sound in movies. Reproduction of this kind is impossible with a conventional phonograph, to say nothing of the inherent finer qualities of tapes. No needle scratch, no surface noise, the ability to patch torn tapes, and the added realism, are all good reasons why stereo tapes are a good buy.

I have shown the stereo equipment to many teens, adults, and younger kids, and the response is amazing. There is something of value in it for all types of listeners.

Tapes are available with symphony orchestras, string quartets, jazz combos, singers, and any other type of subject found on a record. To the music students, stereo lets you hear "inside" the orchestra and pick out the various instruments, which is impossible with a phonograph where everything is all mixed up into one speaker. If you like string music, you can have the intimacy of a chamber concert right in your living room and have the sensation of a small group of musicians playing for you alone, as they did for royalty in Haydn's day. On the more modern side, the jazz combos lend themselves well to stereo. Concertapes' reel "Kaz Jaz" featuring the Fred Kaz trio, is an excellent example of this. A singer featured with the group, "stands right out in front of you" when you hear this reel.

RCA is entering this field, and other record companies are sure to follow, so an in-

The Experts' Choice for Outdoor Recording

THE SHURE SLENDYNE "535" DYNAMIC PROBE MICROPHONE...

creasing number of tapes with popular artists is guaranteed for the future. Besides Concertapes, Livingston, Bel Canto, A-V, and others are producing many fine tapes.

In addition to the V-M unit, Bell, RCA, Pentron, Viking, and others are coming out with stereo units. It is my guess that very shortly all manufacturers of both tape and recorders will be in the stereo field. Ampex has a fine higher priced stereo machine also.

V-M is planning on introducing a stereo machine capable of making as well as playing back stereo tapes. This would be an excellent item for a school. Imagine making recording of the band and glee club in stereo. I believe that much credit is due V-M and others for having the foresight to provide playback at slight additional cost (\$20 more) than a standard machine. It will certainly do much to establish the role of stereo in the home and in the audio visual field. If you are in the market for a new recorder, you ought certainly to bear in mind the fact that you can have a stereo machine for slightly more than a regular machine. The difference is certainly worth it and you owe it to yourself to hear this aspect of sound if you haven't.

The machine is on its way back to the factory, the tapes have been returned, and I now have to adjust myself once again to monaural sound. It's hard to do after enjoying stereo so much. There is one nice thought to bear in my mind. The next machine I buy will be 3-D.

That's all for now. TAPE RECORDING becomes a monthly with this issue, so we'll see you a bit sooner this time. Get the clubs going, and let us hear from you. Keep 'em spinning.

GIBSON GIRL TAPE SPLICERS

splices in a wink!
 NO SCISSORS!
 NO RAZOR BLADES!
 Diagonal cuts, tape ends
 and rims splice edges!
All Your Dealers
ROBINS INDUSTRIES CORP. Boyd St. N. Y.



YOUR TAPE RECORDER CAN MAKE MONEY FOR YOU

Make tape recordings of
 PARTIES • MEETINGS • SCHOOL
 CONCERTS & EVENTS • WEDDINGS
 and transfer to high-fidelity permanent records for very little cost. Then resell at your own price!

- Records Imprinted With Your Copy
- Large or Small Quantities
- Exceptionally Low Rates
- All Speeds and Sizes

CREST RECORDS, INC. Dept. TR9

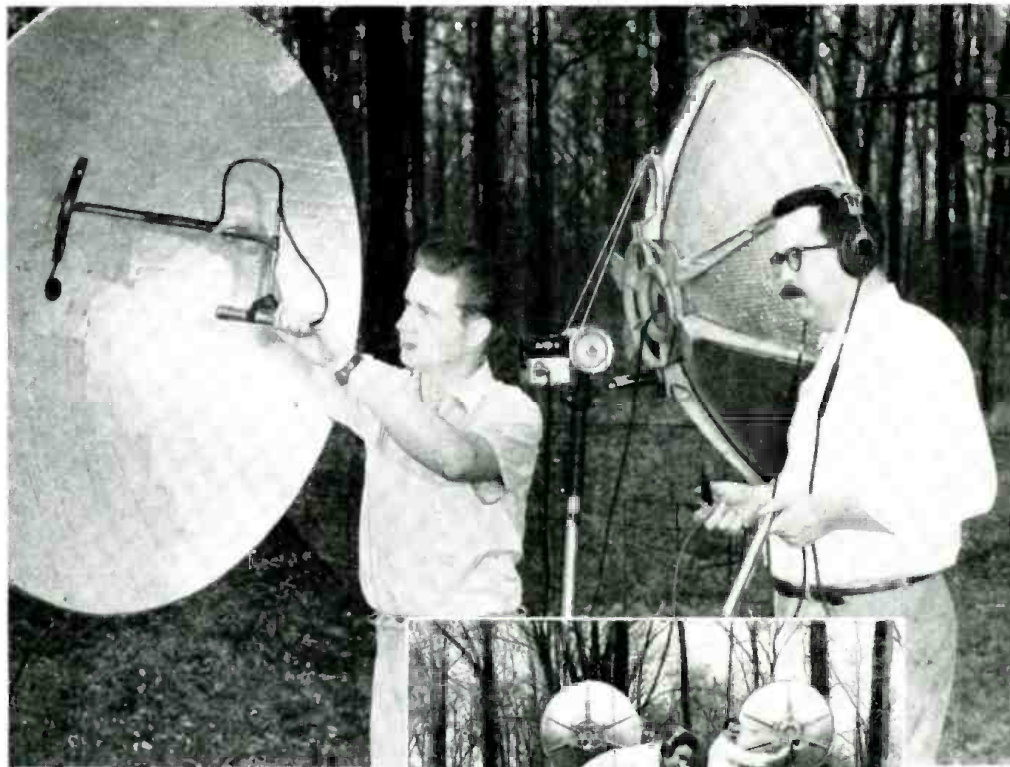
220 Broadway, Huntington Sta. 5, N. Y.
 Please send me brochure and rates on transferring tape to records.

NAME

ADDRESS

CITY ZONE STATE

MAIL TODAY FOR BROCHURE AND RATES



Robert Oakes Jordan and James C. Cunningham using two parabolic sound reflectors and two Shure Slendynes during an outdoor stereophonic recording session.

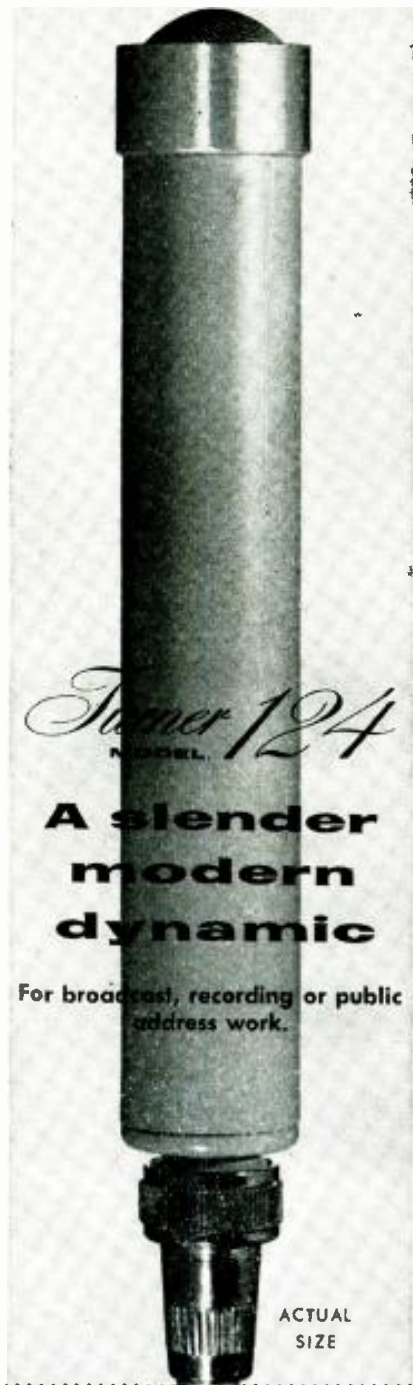
For a special series of outdoor stereophonic recordings, "Sounds of Nature," one of the world's foremost stereophonic recording research organizations, Robert Oakes Jordan & Associates of Highland Park, Illinois, chose the Shure Slendyne "535" . . . because of its rugged, weather-proof construction.

The microphones used in this project were exposed to rain, strong winds and rough handling, with no change in their excellent recording characteristics.

Said Mr. Jordan, "In field tests during all types of weather the 535's withstood the abuses of nature and two busy scientists more intent upon their work than upon the "proper" treatment of high quality microphones."

SHURE *The Mark of Quality*

SHURE BROTHERS, INC.
 MICROPHONES • ELECTRONIC COMPONENTS
 224 HARTREY AVENUE • EVANSTON, ILLINOIS
 IN ELECTRONICS SINCE 1925



SPECIFICATIONS:

Output level -58 db;
 Response: 50-13,000 c.p.s.;
 Cable 12 ft. detachable;
 Impedance Specify
 50 ohm, 200 ohm or high.

List Price \$49.00
 Matching G-8 Shockmount stand... 8.00

THE TURNER COMPANY
 948 17th St. N.E.
 Cedar Rapids, Iowa

IN CANADA: Canadian Marconi Co.,
 Toronto, Ontario and Branches

EXPORT: Ad Aurisma, Inc.,
 89 Broad St., New York 4, N. Y.

TAPE IN EDUCATION

BY JOHN J. GRADY, JR.



DRAMA and music instructors in many of the high schools of the nation deserve credit for numerous innovations in adapting tape recorders to classroom educational technique.

The use of tapes for auditions, rehearsals, etc., now is standard practice in schools having an installation of tape recording equipment. And now, it is possible to have tapes on which a great variety of SOUND EFFECTS can be permanently available. This permits drama and music departments to produce programs that approach professional quality. At assemblies and all forms of school entertainments the efforts of students can be embellished by tape material which will add greatly to the pleasure of the audience.

Clever instructors with inventive initiative have produced programs that will give school audiences in the widespread smaller communities a touch of the theatre such as is available only in metropolitan areas. This applies particularly to musical presentations. But such a presentation can be an annual affair which would be an artistic triumph reflecting great credit on the school and the faculty members responsible for it.

The production of an old musical favorite can be given a splendid interpretation, if the student body is numerically large enough so that a melodious chorus can be organized. That's the necessary nucleus for the program. Then, the leading characters must be selected. Poise, and the ability to follow the instructor's direction are the chief qualifications for the more prominent parts. For these leading roles are to be done in pantomime with appropriate gestures and semblances of vocal action. But, the voice and the melody which the audience will hear will be a tape recording of the prominent artists associated with the part. All solos, duets, and quartet numbers will be tape recordings coming from the wings. A darkened stage will help to perfect the illusion.

TAPE IN EDUCATION will welcome any detailed report from teachers who have staged productions wherein the talent of students has been combined with the tape recorded artistry of popular professionals. It is obvious that musical reviews, variety shows, minstrel shows and other forms of entertainment can be devised by instructors so that they will have local or community significance, but the program will be enhanced by the taped recordings of famous artists.

EDUCATIONAL NOTES

TAPE IN EDUCATION finds pleasure in drawing attention to the new publication policy which will give you an issue of TAPE RECORDING each month. A detailed notice,

elsewhere, will tell you of the advantages of this new plan. Now, TAPE IN EDUCATION, can make more prompt response to those presenting questions. Apologies are rendered to those who have supplied information in past months, if lack of allotted space did not permit acknowledgement.

From Sandy Kahn, Cincinnati, Ohio, we have good news. The SPEEDWRITING method of shorthand instruction is utilizing tape recording as an advantage to students. Speed practice in dictation is facilitated by the use of tape recordings. A particular advantage is the availability of a tape recording which permits a student to make up any lesson missed. Tapes are also available for former students desiring a refresher in technique.

Teachers and administrators are reminded to THINK when they hear the oft repeated expression on radio or television, "This program is an electrical transcription." It means that the program has been tape recorded. And if teachers and administrators do THINK about it, they will realize the very many ways that a tape recorder would be of advantage in the classroom handling of repetitive texts. Tape recording is strong medicine in those schools of overcrowded classes and double sessions.

RECORDS FROM YOUR TAPES

Meetings, concerts, training aids, etc. economically re-recorded on permanent hi-fidelity discs. Professional quality—overnight service—all speeds—any quantity. Write for Free Folder and Prices.

RECORDED PUBLICATIONS LABS.
 1556-1570 Pierce Ave., Camden 5, N. J.

LEARN A LANGUAGE AND BUILD YOURSELF A GREATER FUTURE

Easy course with 200 pp. textbook (60 conversations) in FRENCH, SPANISH, GERMAN, RUSSIAN, etc. only \$15.00. Just let the vocabulary sink into your memory! A REAL contribution to your REEL library. Don't be an uncultured ape—learn a language with National Tape! National Tape Library, 804 F Street, Wash., D. C.

RECORDED TAPE

We carry a full line of stereophonic and monaural tapes from over thirty leading tape libraries. For a complete and informative FREE catalog, write —

MAL'S RECORDING SERVICE

Dept. TR, Box 37, Rockaway Park 94, N. Y.

TAKE 1 by the Editors

BIRTHDAYS have a way of creeping up unnoticed and we were a bit surprised to realize that we had already spent three very busy years bringing you the facts and news on tape recording.

With this issue we begin our fourth year of publication and to celebrate we've changed our name a bit—to Hi-Fi Tape Recording and we're going monthly.

Both of these changes are in line with the many requests we have received for more frequent publication and more dope on audio in general.

This issue is stereo from cover to cover. We believe you'll find it interesting. If the articles sound a bit enthusiastic and you are inclined to take such enthusiasm with a grain of salt then go out and hear stereo yourself and you'll see that it has not been exaggerated in the least.

We want to take this opportunity to thank both our readers and our advertisers for their support over the years just past. Without both it would not have been possible for us to gain the leadership in the field that we now have.

The years ahead are even brighter for tape than those just past and we are looking forward to the opportunity of being of service and of putting out the kind of magazine you'll enjoy.

A SHOW-OFF TAPE FOR YOUR HI-FI SET



artists featured:
**HERMANN SCHERCHEN,
 CARLOS MOLINA, THE HI-LO'S,
 ROGER WAGNER CHORALE,
 ANTON KARAS, PETE DAILY,
 ANTON PAULIK, MARY LOU
 WILLIAMS, ROBERT
 CRAFT, PETE
 CANDOLI, and
 others**

Demo Tape D-8
 7" REEL,
 DUAL TRACK, \$5.95
 7½ IPS.



Designed to be played at all the Hi-Fi Shows throughout the country this year... to show off Hi-Fi equipment.

Contains complete selections from 18 different OMEGA-TAPE releases.

INTERNATIONAL PACIFIC
Omegatape
 RECORDING CORPORATION

858 NORTH VINE HOLLYWOOD 38, CALIF

PENTRON STEREO MAGIC!

MONAURAL
 RECORDING
 and
 PLAYBACK

STEREO-
 PHONIC
 PLAYBACK

● STEREO-MAGIC CONVERSION KIT

Adapts any Pentron tape recorder sold in the past 5 years for stereophonic tape playback.

List: \$16⁹⁵

● STEREO-MAGIC STOCK PENTRON MODELS

These regular in-stock models offer stereophonic playback plus monaural recording and playback.

T-90S: \$219.95, list
 HF-400S: \$269.95, list
 HFW-500S: \$319.95, list

PENTRON

in Canada: Atlas Radio Ltd., Toronto

PENTRON CORP., 787 S. Tripp Ave., Chicago 24, Ill.
 Send details on Stereo-Magic...

Name _____
 Address _____
 City _____ State _____

Complete Mixing

AND

Fading Facilities!

THE WORLD-FAMOUS

FISHER

High Fidelity Components



Model CA-40

FISHER Master Control-Amplifier WITH DIRECT TAPE-HEAD PLAYBACK

Model CA-40 combines the most advanced audio control with a powerful 25-watt amplifier on one compact chassis. Less than 1% distortion at 25 watts! Handles 50 watts peak. **Exclusive FISHER TONE-SIZER**—a graphic indicator of control settings. Direct tape-head playback and microphone preamplifier. Six equalization settings. Frequency response ± 0.5 db, 10 to 90,000 cycles. Hum and noise better than 90 db below full output. Cathode-follower, tape recorder output, 4, 8 and 16-ohm outputs. Ten tubes. **Controls:** Volume/Loudness Balance (4-position), Selector/Equalization, AC On-Off, Bass, Treble, Rumble Filter, Noise Filter, Input Level. **Size:** 12 $\frac{3}{4}$ " wide x 10 $\frac{3}{4}$ " deep x 5" high. **Weight:** 24 pounds. **\$139.50**



Model 80-C

FISHER Master Audio Control WITH DIRECT TAPE-HEAD PLAYBACK

"Breathtaking!"—Edward Tamm Canny, Professional pianist and tape-head equalization. Full mixing and fading facilities in 2 to 5 channels, 7 inputs, including two Phono, Mic and Tape. Two cathode follower outputs. Separate equalization and preamplification directly from tape head. Inherent hum virtually non-measurable. Frequency response ± 0.25 db, 20 to 20,000 cycles; ± 2 db, 10 to 100,000 cycles. **Controls:** Bass, Treble, Master Volume, Two Phono/Tape Equalization, Calibrated Loudness Balance, Line Switch, Five Channel Selector Push Buttons, Five Input Mixer/Level. **Size:** 12 $\frac{3}{4}$ " wide x 7 $\frac{3}{4}$ " deep x 4 $\frac{1}{4}$ " high. **Weight:** 10 pounds. **\$99.50**
Blonde or Mahogany Cabinet \$9.95

FISHER Mixer-Fader - Model 50-M



Electronic mixing and fading of any two signal sources. **No insertion loss!** Extremely low hum and noise level. **\$19.95**

Write for Complete Specifications
Prices Slightly Higher in the Far West
FISHER RADIO CORP.

21-27 44th DRIVE • L.I. CITY 1, N.Y.

QUESTIONS & ANSWERS

Questions for this department may be sent on tape or by means of a postcard or letter. Please address your queries to, "Questions and Answers," Film and TAPE RECORDING, Severna Park, Maryland. The most interesting and widely applicable questions will be used in this department and all inquiries will receive a tape or letter reply.

Q—I have recently purchased a tape deck and am very satisfied with it and the sound it produces through my hi-fi system. I would like to know what kind of tape to use for best reception. Is the extra long playing tape (1/2 mil Mylar) advisable to use. I am told that it is not permanent and will print through. Can I arrange some way to have the tape stop before leaving the reel? An ideal situation would be to have track 1 play through, reverse itself to track 2 and play through to the end.

My timing needs correction as I've had tape run off the reel while recording. Do you have any hints here? I have just begun purchasing your magazine TAPE RECORDING and it appears to be just what I need—but I am just beginning. Do you know of any reader who records opera from the air?—S. R. Denker, 2215 Cranston Road, University Hgts. 18, Ohio.

A—Any of the standard brands of tape are reliable and tape on the Mylar base is the best you can get. There is increased danger of print through on the thinner tapes but this print through business has been much over-rated. The greatest causes of print through are the use of too high a recording level, the storage of tapes near a weak magnetic field and the storing of tapes at high temperatures. If you avoid those things you should have no difficulties. The extra thin tape must be treated carefully and handled with respect. We believe the 1 mil Mylar would be best for you until you get some recording experience and know just how to control the level.

If you can work fast, you can make a "flying splice"—we'll be running an article on that shortly. Regarding reel reversal and shift, we know of no recorder which has this feature—only the long playing music machines will make the shift from one track to the other automatically. If your recorder has a manually operated shift to the second track it may be possible for you to rig a switch and solenoid magnet to make the changeover. The switch could be set to trip when the take-up reel is full. We know of no device or attachment you can buy to do this. Regarding other opera recordists, perhaps some will write to you after reading this.

Q—I am having difficulty acquiring the proper acoustics from my recordings in my piano studio. I have a linoleum floor and hard wood walls, so that when recording from the piano the tones seem to "hit" sharply and the result is a hard, poorly recorded performance. Is there a microphone that will give me the correct acoustics? Also, how can I prevent outside noise from showing up in the recording? I was told that by hanging heavy cloth about the room it would absorb the tone. Another thing,

my recordings seem to vibrate tones. If a note is held for a beat or so it warbles back and forth. Would appreciate any information you can offer me.—M. R. C., Lowell, Mass.

A—We believe that most of your difficulty stems from the room itself. The hard floor and walls make excellent sound reflectors and the reverberations will spoil your recording. Hanging draperies will help cut this reflection of sound waves as will a rug on the floor. However, before doing this we would suggest that you bring the mike very close to the piano, even so close that it will have to be played softly to avoid overloading. This will help some and perhaps enough. It will also aid in getting rid of the background noise you mention as the recording volume will be turned down lower. You might also try suspending the mike under the piano, if it is a grand type, and also putting a throw rug under the piano on the floor. This will cut down on the reflections from the floor by absorbing the sound. Regarding the warbling effect, this would seem to indicate that your recorder needs a bit of attention as wow is being produced. Clean all tape guides, the heads and also have the drive system or pucks and rollers looked over for shiny spots or flats.

Q—Recently I purchased a pre-recorded dual track tape which I played several times. However, on approximately the fifth time I detected a background noise which was coming from a partial reproduction of the inverted part of the tape. This annoying interference is also being experienced in making my own tape recordings.

J. A. M., Arlington, Va.

A—Somehow, your tape guides or heads have gotten out of alignment and are picking up the second track. Check both and tighten up if they are loose. Try shifting the position of the tape as it runs past the head by pressing on the edge with a pencil. You will thus be able to determine whether the guides should be raised or lowered to get the best alignment.

DIFFERENT! RECORDED FUN-FILLED TAPES

SAMPLER ONLY 99¢
(DUAL TRACK—STATE SPEED)
LOWEST PRICES! FREE LISTS!

HOUSE of STONE • LUNENBURG 2, MASS.

For All Your
HI-FI REQUIREMENTS
Write us first
Authorized Distributors
BERLANT Concertone
Our Consultation Service is at your disposal.
Write us today.
Suggested Systems from \$150.00 and up
SOUND MART UNLIMITED, INC.
DEPT. T, 119 East 59th St., New York 22

TAPES TO THE EDITOR

When sending tapes to the editor please use the 3" reel and indicate the speed at which it was recorded and whether it is dual or single track. We will listen to your tape, make notes from it for use in this column and then reply on your tape. Please keep tapes reasonably brief.

If you do not own a recorder a letter will be acceptable. Address tapes or letters to: The Editor, Film and TAPE RECORDING, Severna Park, Md.

To the Editor:

Would it be possible for you to put me in touch with someone who has made good tapes of the ABC-FM broadcasts from the Metropolitan Opera House. I need these desperately as I am about to begin my yearly opera classes in which spontaneous performances are a must. No one here seems to have taped them except me but I lost many of my tapes recently in an unfortunate accident. I would prefer making copies of the tapes myself and I will take care of all financial matters.—Howard V. Deck, 1512 Schuylkill Ave., Reading, Pennsylvania.

Anyone able to help Mr. Deck?

To the Editor:

I have just read with interest your letter informing the trade of your plans to publish Tape Recording Magazine on a monthly basis.

May I take this opportunity to offer my sincere congratulations on taking this step. The lack of proper information about tape recording and tape recorders has been a

great deterrent in the development of our industry. Your magazine has always been a source of outstanding information about the tape recording field. I feel certain that the publication will prove successful, not only from your standpoint but also the public who buys TAPE RECORDING MAGAZINE. Again my sincere congratulations and best wishes.—Joseph F. Hards, President, Magnetic Recording Industry Association, New York, N. Y.

Our thanks to president Hards and to the other members of the industry who very kindly offered their best wishes and congratulations.

To the Editor:

What wonderful news to learn that TAPE RECORDING will be published every month. I am sure that this will make many "tapeworms" very happy and as a consequence prove very successful. One suggestion—why don't you let the readers know when the various audio shows will be held.—Dick Kenny, Stamford, Conn.

We'll see what we can do about listing the audio shows in future issues and thanks for your good wishes. We made TAPE RECORDING a monthly because of reader requests and to keep up with the growth of the industry. Our thanks also to H. J. Hasbrouck of Teaneck, N. J. who sent his congratulations on tape—the sunniest tape we have heard for a long, long time.

To the Editor:

Congratulations on the acceptance of your publication that makes it attractive to issue monthly. I would like to see every story begin on a right hand page and continue uninterrupted to the end of the text. Reasons are just two: 1) We like to read the text as it was written. 2) We like to clip sections of especial interest and file with others without having to slit and paste together sections retrieved from pages all over the issue.—H. P. Roberts, Tallmadge, Ohio.

To the best of our knowledge we have carried over only one, or at the most two, articles in the last year! We thought that was a pretty good score. As to starting all articles on a right hand page, this makes a magazine look mighty monotonous to the average person. You will find that all major articles do start and finish without any carryover to the back. Take a look at the feature section of this issue, for instance. Not one article is split up.

HAVE FUN AT YOUR NEXT PARTY

Tape record this old fashioned melodrama and play it back. Good for a hundred laughs. Five parts, three male, two female... and a donkey. Full directions for sound effects. Complete set of scripts (six copies) as presented on air only \$2.95 postpaid.

TAPE RECORDING Severna Park, Md.

SOUNDS-CRAZY

Paul Severson Quartet
ST-4016
\$10.95

FLAMENCO

Lina Lunares & Los Galindos
ST 5017
\$10.95

ANTON KARAS

plays Operetta Highlights from Strauss to Lahar. Anton Karas, Zither The Two Rudis, Harmonicas
ST-2004
\$10.95

NEW STEREO TAPES

MILITARY MARCHES

New Austrian Military Band. Josef Duron, Musical Director
ST-2006
\$10.95

STEREO DEMO STD-6
\$4.00 complete

Contains excerpts from 5 exciting Stereo recordings. NARRATION: TOM MERCEIN. PRODUCED BY: ROBERT OAKES JORDAN & JIM CUNNINGHAM

AVAILABLE "STACKED" OR "STAGGERED"

INTERNATIONAL PACIFIC
Omegatape
RECORDING CORPORATION

858 NORTH VINE HOLLYWOOD 38, CALIF

Excerpts from Stereo Albums No. 1 thru 7 and No. 702. An entertaining program of the finest in authentic stereophonic sound by Bel Canto.

AVAILABLE FOR BOTH
"INLINE" & "STAGGERED"

ST-DX 15 MIN.

\$3.95

(in Calif. add 4% Sales tax)

Featuring the Sinfonietta de Madrid and the Rossini Orchestra of Italy. The stirring La Virgen de la Marcarena is an absolute must for the stereo enthusiast.

ST-3
\$9.95
23 min.

Memories of Spain and Italy

A thrilling high fidelity adventure in stereo through the brilliant artistry of Monsieur D'Coite and the String Ensemble de Paris.

ST-2
\$9.95
23 min.

Rachmaninoff in Stereo

The finest Concert Band Organ in existence today; complete with drums, cymbals, castanets, reeds, glockenspiel, trumpets, bells, and triangle.

ST-1
\$9.95
23 min.

Carouselle Band Organ

Featuring the Mighty Wurlitzer at CBS with electronic and hammer struck chimes, dramatic presentation of 20 traditional Christmas melodies. An absolute must for the stereo enthusiast at Christmas!

ST-702
\$11.95
30 min.

Merry Christmas Carols (Pipe Organ & Dual Chimes) Monaural Album #701

STEREOPHONIC TAPES

For the first time in stereo. Razzberry Reynolds and the All-Star Polka Band perform: Too Fat Polka, At the Mill, and Helena Polka, recorded at the Capitol Tower in Hollywood.

ST-7
\$7.95
15 min.

Polka Party in Stereo

Here is an album devoted to the waltz, featuring the Kingsway Strings and Joseph Kubo's arrangements of the Merry Widow and Candlelight Waltzes.

ST-6
\$11.95
30 min.

Waltztime in Stereo

The Stockholm String Orchestra under the direction of Hens Holm Herber, such as Indian Summer, Topland, and Moonbeams.

ST-5
\$9.95
23 min.

Tribute to Victor Herbert

Under Paris Skies. Can-Can, and Frene Jacque done by the Paris Theatre Orchestra, arranged and recorded specifically for the Bel Canto stereo library.

ST-4
\$9.95
23 min.

Memories of France

Bel Canto

4856 W. JEFFERSON BLVD., LOS ANGELES 16, CALIF.

write for catalog



Top Stars Choose

Revere
"Balanced-Tone"

HIGH FIDELITY TAPE RECORDERS

Like countless other popular performers, Doris Day finds her Revere Tape Recorder invaluable for rehearsing her new numbers. Revere's amazing true-to-life fidelity of tone enables her to hear herself *exactly* as she sounds to her audience and helps her achieve the perfection acclaimed the world over. Why not follow her example? See and hear a Revere Tape Recorder at your favorite Revere dealer today!

REVERE CAMERA CO. • CHICAGO 16, ILLINOIS

DORIS DAY, co-starring in Alfred Hitchcock's "THE MAN WHO KNEW TOO MUCH", filmed in Vista-Vision, color by Technicolor.



T-700-D Dual-Speed — Simplified automatic keyboard controls. Standard tape speed of 3.75 and 7.5 i.p.s. Records up to three hours per seven inch reel with new long-play tape. Exclusive index counter. Complete with microphone, radio attachment cord, two reels (one with tape) and case. **\$225.00**



T-1100 Dual-Speed — Single knob control. Tape speeds of 3.75 and 7.5 i.p.s.; records up to three hours with new long-play tape. Durable fibre-glass case; two acoustically matched excursion speakers. Complete with microphone, radio attachment cord, two reels (one with tape) and case. **\$169.50**



T-11 Custom Model—For easy installation into any high fidelity system. Solenoid operated keyboard, push-button control. Accepts 3, 5, 7 and 10½-inch reels. Records up to 2 hours with 7½ i.p.s. tape speed or 3 hours with long-play tape. With reel adapters, cord assemblies and plugs. **\$284.50**

10 Ways to Enjoy Stereo Sound

. . . . stereo sound on tape has definitely "arrived" and offers better sound than the highest Hi-Fi disc rigs. Units are available to fit every pocketbook.

by

Mark Mooney, Jr.

STEREO sound for the home is the greatest advancement in good listening since the invention of the phonograph.

For the first time, the barriers of space have been swept aside and a whole new world of musical enjoyment has come into being. No longer is there any necessity to seem to listen to an orchestra through a "hole in the wall." Stereo on tape has demolished the wall and spread before your ears the entire world of sound in true perspective relationship. Once you hear it you'll agree that it is truly 3-D sound. The instruments of an orchestra, for instance, are not only in their proper audio perspective but those which are on the left are heard coming from the left, those on the right come from the right in the stereo reproduction. The whole side of the room comes alive with sound.

What is stereo sound? We wish we were capable of describing it. It is an emotional experience. Perhaps one simile that might help is to compare single channel sound to a black and white snapshot; stereo sound would then be a picture in three dimensions in full color.

How is this brought about? Actually the principle is not difficult to understand, nor is its application. Let us again return to our former example. The snapshot is flat, a two dimensional representation of the scene. If you close one eye it would look the same.

The 3-D picture shows perspective. It is seen by both eyes. Should you close one eye, the illusion of space and depth would vanish.



The only stereo outfit all in one cabinet is made by Ampex. Speakers throw the sound to inclined baffle boards which spread it through the room. This console also contains an AM-FM radio and a record changer. All are interconnected so that any function can be selected at the touch of a button.

You can perceive spatial relationships with your eyes because you have two of them, spaced apart. Each sees the view a bit differently than the other and this difference is interpreted by your brain into near and far—you see in depth.

In sound the story is exactly the same. You have two ears and each hears sounds a little bit differently than the other by a tiny fraction of a second. This minute difference enables you to locate the source of a sound and to hear in depth.

If you close off one of your ears with a finger or an ear stopper, your sense of sound direction will disappear. All sounds will then seem to come from an undeterminable direction. They will tend to merge and seem to occupy the same plane. You have noticed, in making recordings with a single microphone, how the sounds which to your ears seem to be distant and unimportant, are picked up and brought forward by the mike to occupy the same plane that is occupied by the sounds you wish to record.

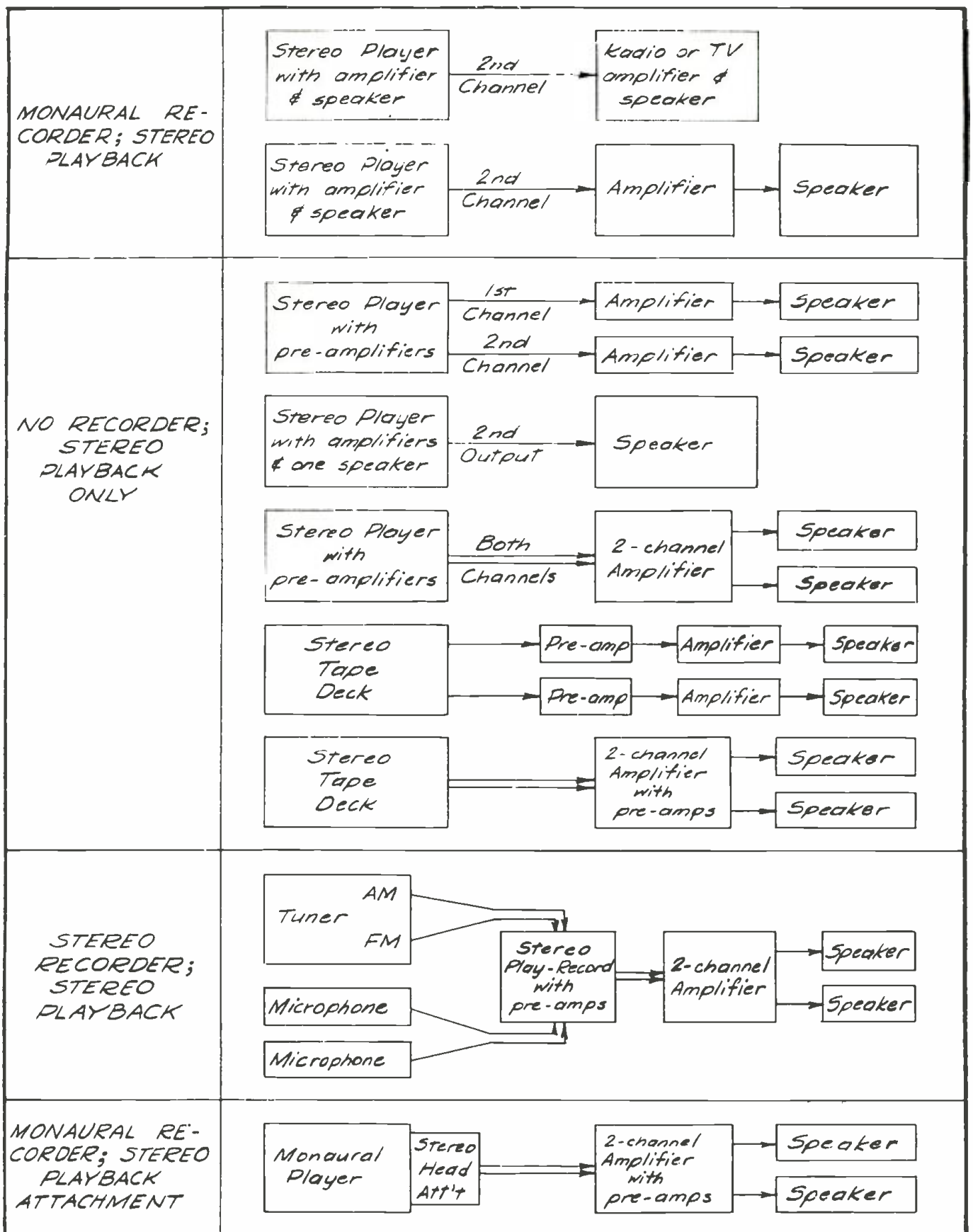
The same is true when you listen to sound emanating from a single channel, be it disc or tape, and played through a single loudspeaker. All sense of depth is lost—you have "one-eared sound."

To make a stereo recording, it is necessary to use two microphones spaced apart to get the best effect. These mikes become the "ears" of the person who ultimately hears the tape.

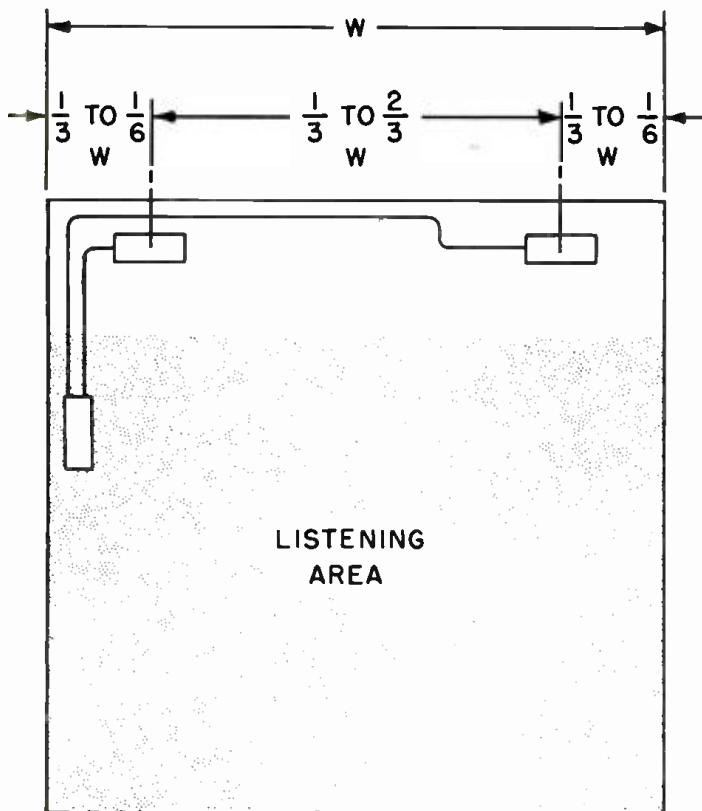
The microphone outputs are fed to *two* recording amplifiers, which in turn feed the current to *two* recording heads each of which records one channel of a dual track tape.

To recreate the sound, the tape is played by means of *two* playback heads, one for each channel on the tape. The output from these heads is fed into *two* separate preamplifiers, *two* amplifiers and thus to *two* speakers spaced apart. The sound picked up by the left hand microphone in the original recording is played by the left hand speaker and the sounds from the right emanate from the right hand speaker on playback. The result is a magnificent recreation of the original sound source, be it a single instrument or full orchestra.

Stereo is not a rich man's delight, either. There is a unit to fit every pocketbook. You can buy a stereo conversion kit for Bell, Pentron or V-M recorders for about \$17.00. For those who like to "do-it-yourself" the kits provide all the necessary parts and a small preamplifier. A single evening of pleasant work should enable you to install it. The preamplifier output is connected to any radio, TV set, or phono that has an input connection to the amplifier. One channel is played through the recorder, the



The ways to stereo enjoyment are numerous and varied. Starting from the top down: a monaural recorder having stereo playback can be attached to a radio or TV set to get the second channel. A stereo player with its own amplifier and speaker can be attached to a hi-fi amplifier and speaker such as you might already have. A stereo player with its own preamplifiers may be connected to two separate amplifiers and speakers or a player which is equipped with both amplifiers and preamps in its case needs only a connection to another speaker. A player with preamplifiers can be used to feed a two channel amplifier and speakers. A tape deck with stereo heads can be fed into two preamps, two amplifiers and speakers. A tape deck may also be fed into a stereophonic amplifier which drives the two speakers. A stereo recorder and playback can be driven from two mikes or a stereo tuner, fed into a two channel amplifier and thence to two speakers. Finally, a head attachment can be fed into a stereo amplifier having built in pre-amps and thence to the speakers.



For best stereo reproduction the speakers should be positioned flat against the wall and from $1/6$ to $1/3$ the distance of the room from the corners as shown in the diagram. The listening area is shown by the shaded section.

second through the radio or TV. We've heard stereo played this way and it is good.

If you wish to go farther, you can run the second channel through an already existing home music system, if you have one. If you "do-it-yourself" with a kit you'll find your friends looking upon you with something that amounts to awe for having had anything to do with the creation of such magnificent sound.

Bell and VM recorders are available with the stereo head built in and Pentron recorders will shortly be similarly equipped for those who prefer to have the factory do it.

The new Ampex A series and the Berlant Concertone offer a monaural recorder with stereo playback and matching amplifier-speakers to take care of the two channels. RCA has a stereo playback only with a matching speaker in both home and portable styles and EMC has a stereo player which will play both stacked and staggered tapes and which will play one channel through radio or TV, feed power amplifiers and speakers for both channels or supply one channel to an external speaker plugged into it and the second channel by other means.

Tape decks are also available and the system may be built up in a number of ways, either through the use of separate preamplifiers, amplifiers and speakers or through the use of a stereophonic amplifier.

If you have the room, you can install additional heads on your recorder and feed the output through a separate preamplifier, amplifier and speaker. Or you may install the heads and feed the outputs to a stereophonic amplifier and two speakers without altering or touching the wiring of your recorder. There are so many possible variations that we have charted them on page 26.

For those who wish to limit the hooking up to putting a plug in the wall socket, Ampex has made a single console which also contains a record changer and radio.

Then, of course, there are the stereo recorders made by Ampex, Amplifier Corporation of America, Berlant Concertone and Magnecord and some of the tape decks which will both record and play back stereo. (See equipment directory beginning on page 40.)

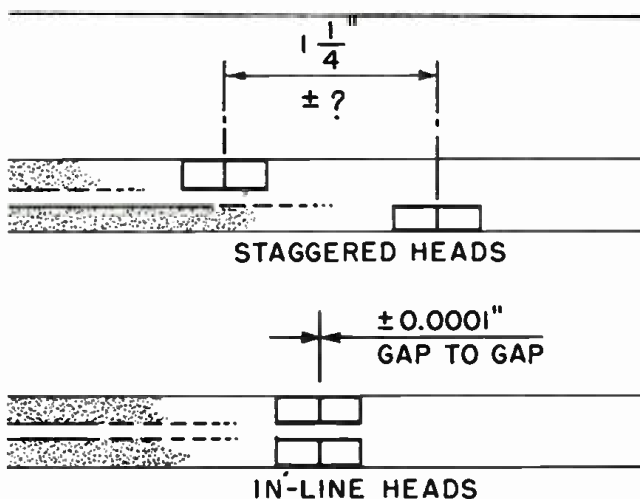
Once you have it, where do you put it? Do you put a speaker in each corner of the room for playback? No, you don't. It has been found that the best position for stereo reproduction is about $1/6$ to $1/3$ the distance from the corners as is shown in the diagram.

Some attention should be paid to the room acoustics too, for best results. A blank, bare room with plenty of reflecting surfaces will not produce the same quality as a room with greater sound absorption. The average living room, with rugs on the floor, curtains and the usual assortment of overstuffed furniture should prove satisfactory in all cases.

You will hear about "stacked" or in-line and "staggered" heads. The latter are also termed "offset" heads. The drawing below shows the difference. The stacked head is actually two heads on one frame with one directly above the other and the gaps in line. The staggered heads are two units spaced $1\frac{1}{4}$ inches apart on the recorder. A tape made for one type cannot be played on the other. At this writing, all stereo tapes, with very few exceptions, can be obtained in both forms. You'll find a directory of all stereo tapes now available beginning on page 43.

Which kind are most in use? Sources considered reliable have placed it at 50-50 at the barest minimum with the probability that machines currently being used run as high as 75% staggered to 25% stacked. Even splitting the difference we get a 60-40 ratio in favor of staggered heads. As companies jump on the stereo bandwagon, which they are doing rapidly, this ratio may swing one way or the other depending largely on how many units are sold and whether or not those units are stacked or staggered.

But this we can say. Plan to hear stereo at your earliest opportunity. Once you hear it, unless you are hard of hearing in one ear, you'll want it, just as we did. The stereo outfits will also play regular tapes—so go enjoy yourself whichever way you pick.



Staggered heads are placed as shown in the the upper drawing with the head gaps spaced as shown. In-line or "stacked" heads are actually two heads in one case with the gaps one over the other.



a new climax in high fidelity

it's stereophonic...

it's a complete tape recorder...

*it's an **Ampex***

Now the best begins at \$379.50...

yet with this surprisingly low price comes the superlative quality you'd expect from an Ampex.

The new Ampex A series offers the startling realism of Stereophonic Sound on tape... music with such depth and clarity that it seems to have actual presence right in your living room. It also achieves vivid reproduction of single channel, half- and full-track tapes; and records half-track with true professional quality... like the famous Ampex studio consoles used by recording companies and broadcast engineers everywhere.

The A series recorders and their matching amplifier-speakers are available in elegantly designed table-top cabinets or handsome portable cases, and offer completely integrated stereophonic or monaural systems. Features include: tape position indicator, simple tape speed selector for 3¾ and 7½ ips. speeds, and recording volume indicator.

Table-top or portable, Stereophonic or Monaural — the new Ampex A series brings you up-to-date in high fidelity... adds a wonderful touch of perfection to your listening enjoyment. See them today at your Ampex Dealer's.

For full specifications write Dept. V-2853.



934 CHARTER STREET • REDWOOD CITY, CALIFORNIA



Ampex A121 is a stereophonic sound system in table top cabinets. The two amplifier-speaker units are placed for best stereophonic effect. Tape recorder-reproducer may be located wherever desired.



Ampex Console Music System magnificently styled for your living room. Contains stereophonic player and tape recorder, AM-FM tuner, and 3 speed record changer. Two speakers each with a separate amplifier are mounted at the correct angle for realistic projection of stereophonic and monaural sound.

"Sound In The Round"

By Robert Oakes Jordan

... field trips to record sounds in stereo are most interesting and sometimes hazardous.

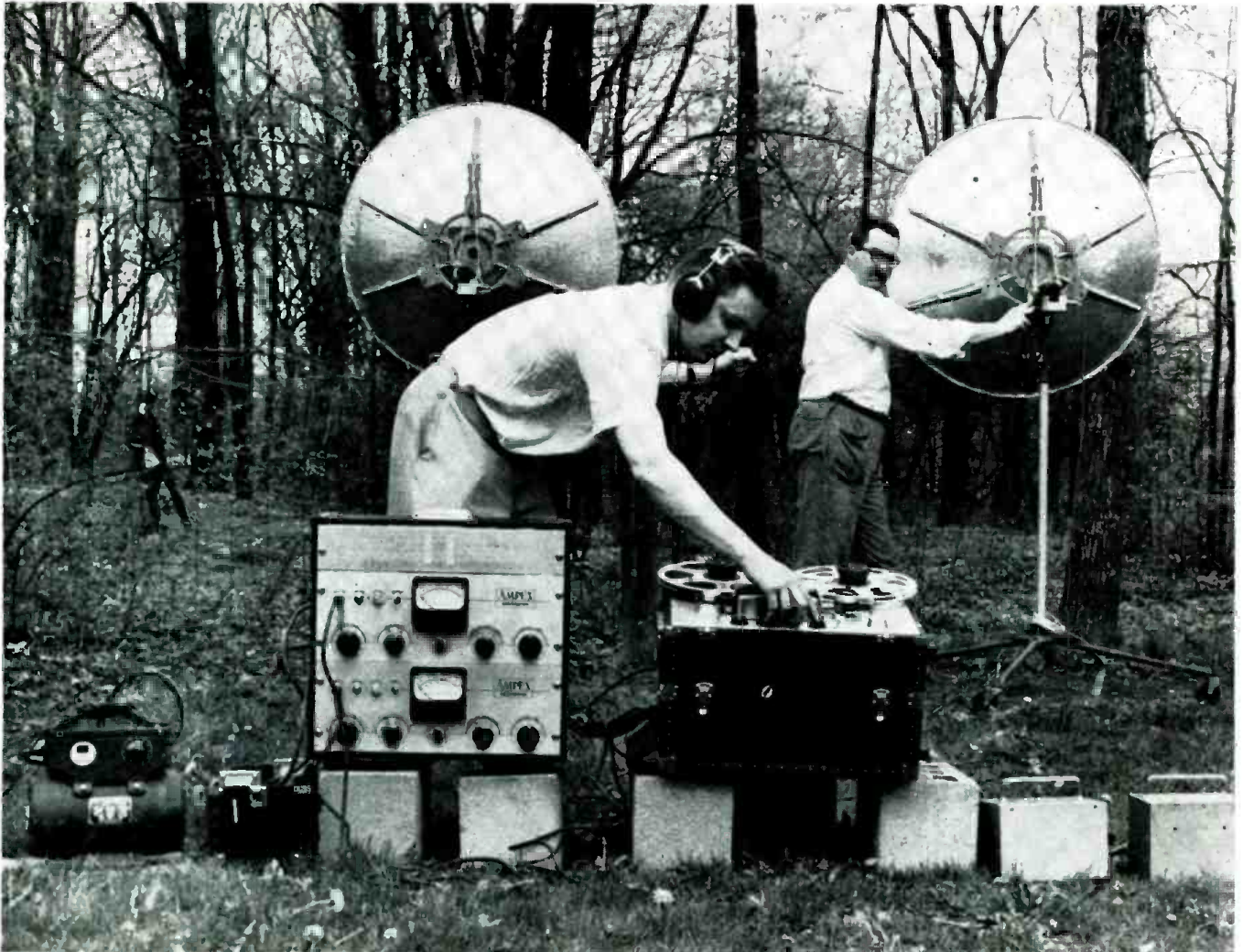


Photo by Glenview Studio

James Cunningham and Robert Oakes Jordan using parabolic reflectors in the field to record early morning bird sounds. By use of additional wet cell batteries and a large Carter frequency controlled generator they were able to maintain sufficient mobile power supply for outdoor recording.

Editor's note: This article is the first of a series which will cover all aspects of stereo sound. The authors will take you on recording field trips, guide you through scientific laboratory experiments and tell you how stereo sound is recorded and played back to achieve almost the realism of live music and sounds.

James Cunningham is Research Director of Robert Oakes

Jordan and Associates, Inc., of Highland Park, Illinois. He is a unique combination of versatile engineer and musician-composer. Robert Oakes Jordan, director of the company which bears his name, is a physicist, author, high-fidelity editor for Down Beat Magazine and a columnist and contributor to other national magazines.

OUR world around us is filled with all manner of sounds. Until Emory Cook, pioneer in three dimensional recording, using a then unique method of putting them down on tape, there had been no accurate documentation. The growth in public acceptance of loudspeaker reproduced stereophonic sound over earphone binaural sound has given us all a chance to audit the sounds of our time. With this new interest in stereophonic sound we thought perhaps you might be interested in how we recorded our tape called "Sound in the Round," two volumes of which have been released by Concertapes this past year.

The idea for this entertaining stereophonic demonstration tape came out of our laboratory where we had been doing research in stereo recording. We talked to our good friend Leonard Sorkin, recording director for Concertapes, about "putting" it on their label. He not only agreed but when the time came later to put the tape together his assistance along with Tom Mercein's great narration work helped make the tape an immediate success.

The many field recording trips necessary to get the sounds for volume one made up a sort of modern day Gulliver's travels. In the course of our travels we climbed down into the Chicago subway tunnels; and up to the top of the new Prudential skyscraper while it was still nothing but a steel frame work. In a sentence on the page the distance is not very far but in the process of traveling we covered several thousands of miles, with considerable adventure in between.

It is all very well to decide quickly to go out into the "field" to do recording in mobile fashion, but the preparations take much longer. The main consideration is a source of power. Most tape recorders require approximately 115 volts of alternating current. Our Ampex stereophonic tape

recorder is no exception, but it draws much more current than the average machine. We had been using a small car battery powered motor generator which supplied sufficient A.C. for the Ampex 600, but it couldn't come near powering the big machine and the 4 power supplies needed for condenser microphones. There was also the problem of tape speed control when using a battery powered motor generator. If the battery voltage drops then so does voltage and frequency of the A.C. operating the tape machine. The constancy of the speed of the capstan motor in the Ampex 350-2 depends primarily upon the frequency of the A.C. power. Our mobile power supply problems were solved by additional wet cell batteries and a larger Carter frequency controlled generator. In the first volume of *Sound In The Round* we needed some early morning sounds; so, long before daylight one day we loaded the equipment in the station wagon and our large parabolic sound reflectors on the roof racks and headed for the woods. The picture on page 30 shows the equipment set-up we used in the field where we could not drive. The real recording adventures were yet to come. Let's start with the beginning sounds on the tape.

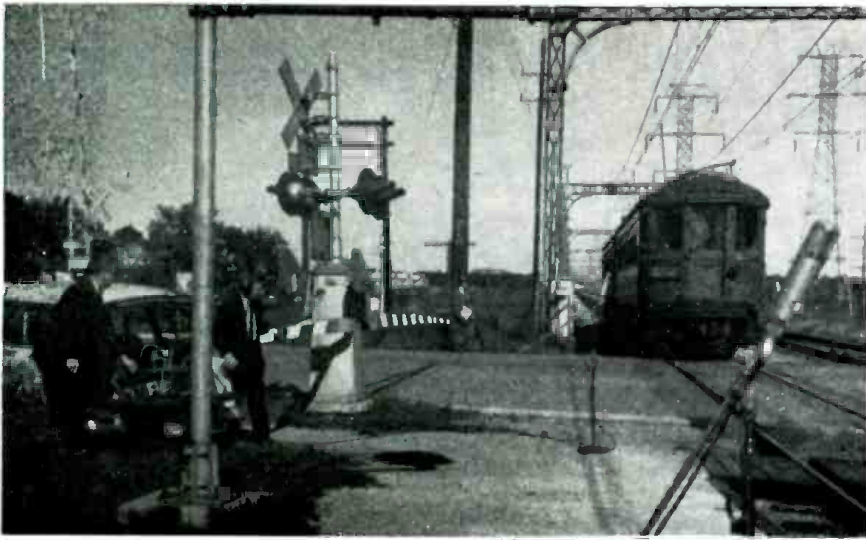
We felt we needed a familiar sound which most people may have participated in at one time or another, which had quick back and forth motion. Ping-pong was the answer, but contrary to what everyone now tells us, there seemed to be very few tables and players available. Basement ping-pong that day was a thing of the past. We eventually found a table and two players. The recording was spectacular, or so we thought, with the *ping* and *pong* of the ball back and forth across the table; but to our dismay all anyone commented about is the asthmatic gasps of one of our players.

The next sound project proved to be a much harder subject to catch on tape. Not because of the fleeting quality of the sound, but because it is part of a passing time in America. There are lots of trains about, but these days they are all diesel powered. There is a quality in the diesel train sound that is unfortunately reminiscent of an elevated train. We wanted the good old fashioned steam train in all its puffing glory complete with the lonesome wailing whistle. The Baltimore & Ohio Yard Master told us when we might possibly catch one of the "oldtimers" steaming into Chicago.

* Copyright: Concertapes, Inc.



Waiting for a United Airlines DC-6 to warm up prior to takeoff, James Cunningham and Robert Oakes Jordan stand by with their recording equipment. The recording was made in three dimensional stereo, with the plane starting up one engine at a time across the mikes.



Recording a modern day inter-urban electric train with a mobile powered Ampex 350-2 and two Telefunken condenser mikes.



Major B. B. Byrd and James Cunningham on the warm-up strip of an Air Force base set to record a jet revving up for takeoff.



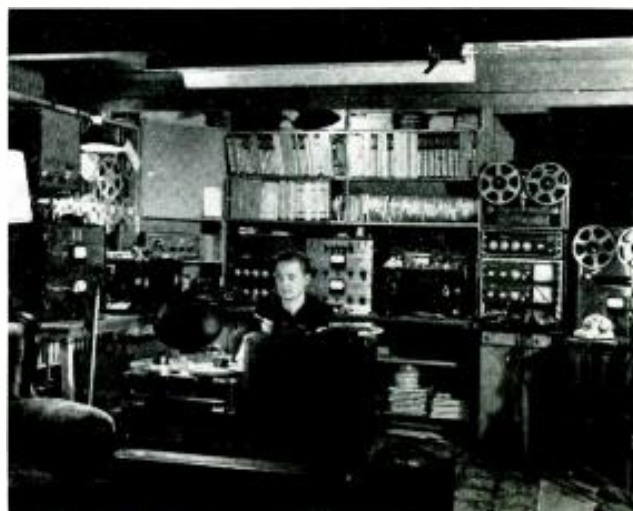
The sound of one of the last steam "Limiteds" is captured in stereo, as it approaches. This locomotive was scrapped the day after the recording was made.

At 6:00 one morning the next week we were track side waiting, we got the sound in all its stereophonic realism, and learned later that we had recorded the last run of the last steam locomotive in the middle west. The great locomotive shown in the picture was scrapped the day after we recorded it. A diesel has taken over the run. The day progressed with several reels of modern train sounds diesel, electric, and switch yard donkey steam engines. Many of these will be released on later tapes and disks. For the sound of the pres-

ent day inter-urban electric we went out northwest of Chicago where they whizz across the country side, whistling down the crossings at 90 miles an hour. By this time we had set, almost by accident, a theme for the tape—transportation and streets sounds, many of which we hear every day. When these sounds are in their natural settings we scarcely give them any notice; but record them on tape and play them back in your own home stereophonically, out of context they become an exciting story in sound.

The following summer months took us through the many civic and organizational parades like the Shriners and their exotic bands. In between the fun loving antics of the Shriners, the curious crowds, and the police force we were lucky to come out with as good stereophonic recordings of marching bands as we did. The celebration of the 4th of July was almost our last. Our permission to record the fireworks didn't come until the last minute, it was growing dark, someone kindly opened the back gate of the stadium and motioned us into what seemed to be a vacant lot back of the fireworks display. In fact we, and our equipment, were the only objects around. The microphones were set up in record time and then the fireworks began. Explosions seemed to be going off all around us, and after each skyrocket exploded above us, the field where we were recording was bombarded with hard cardboard "shrapnel" and debris. Typical of our usual luck we had been "ushered" into the vacant lot at which was aimed all the skyrockets and aerial bombs for the safety of the crowd. Fortunately there were no delayed explosions and we got away safely with some interesting sounds, which are in volume one of *Sound In The Round* released by Concertapes.

Recordings of aircraft are interesting to take but it is very difficult to get close enough for top recordings. However, both United Airlines and the United States Air Force were most co-operative. We were able to record in three dimensional stereophonics a United DC-6 starting up one engine at a time across the microphones. Then at risk of walking into rotating props we retrieved the microphone and reset them, catching on tape the take-off of the same ship. The rest of the day was spent at the end of the commercial runway recording these gigantic planes in flight. The United States Air Force gave us clearance to be taken right out on the jet runways at a military air base where we could record the jets revving up for take off. We were able to record many different types of flight and landings. We



James Cunningham is shown in the recording studio of the laboratory of Robert Oakes Jordan & Associates, Inc.

taped the full intensity of a jet, wheels locked against moving, with the afterburner "thrown" on. More sound than the human ear can stand but we plan to release it soon for the "golden" ears of the Hi-Fi fan. Several more trips and then finally getting caught in a thunder storm produced all the sound we needed for volume one. It was now back to the studio at the laboratory where the long intensive tape splicing and editing was to take place.

The final editing of the master tape took several weeks and we are most grateful to Leonard Sorkin of Concertapes for his helpful advice and to Tom Mercein for his fine job of doing the narration. It's true we had volume one of *Sound In The Round* ready for the listener, but already volume two was in the process of organization. We were hoping that it might prove *easier done* than volume one, but as we learned later it was only *easier said*.

TAPE PLAYING TIME—FOR VARIOUS SPEEDS AND REEL SIZES All tapes are standard 1½ mil except as indicated

REEL SIZE (in.)	TAPE LGTH. (feet)	SINGLE-TRACK PLAYING TIME FOR VARIOUS TAPE SPEEDS AND TAPE LENGTHS				DUAL TRACK PLAYING TIME	
		TAPE SPEED—inches per second					
		17/8 ips	3¾ ips	7½ ips	15 ips	3¾ ips	7½ ips
3	150	15 min.	7½ min.	3¾ min.	17/8 min.	15 min.	7½ min.
3	225*	22½ min.	11¼ min.	55/8 min.	2-15 16 min.	22½ min.	11¼ min.
4	300	30 min.	15 min.	7½ min.	3¾ min.	30 min.	15 min.
4	450*	45 min.	22½ min.	11¼ min.	55/8 min.	45 min.	22½ min.
5	600	1 hour	30 min.	15 min.	7½ min.	1 hour	30 min.
5	900*	90 min.	45 min.	22½ min.	11¼ min.	1½ hours	45 min.
7	1200	2 hours	1 hour	30 min.	15 min.	2 hours	1 hour
7	1800*	3 hours	90 min.	45 min.	22½ min.	3 hours	1½ hours
7	2400**	4 hours	2 hours	1 hour	30 min.	4 hours	2 hours
10½	2400	4 hours	2 hours	1 hour	30 min.	4 hours	2 hours
10½	3600*	6 hours	3 hours	90 min.	45 min.	6 hours	3 hours
14	4800	8 hours	4 hours	2 hours	1 hour	8 hours	4 hours
14	7200*	12 hours	6 hours	3 hours	90 min.	12 hours	6 hours

*Long play tape 1 mil film. **Double play tape ½ mil film. Chart courtesy ORRadio Industries, Inc.



Why bother . . . if you can get the Philharmonic in the living room

Stereo — Why Bother?

by Jack Bayha

MOST magazine writers when discussing a controversial item love to start out with the statement that, "this article is completely and entirely unbiased." In making a tape recording, anything unbiased is usually full of distortion as any engineer will tell you. If you become overbiased you get poor high frequency response. (There is no extra charge for the fabulous technical education we are giving you.) We know we are biased, but with just the right amount, and our bias frequency is high enough to suit anyone. From the title of this epic you might think we don't like stereo. This is an unfair assumption on your part, and we will ask you to dismiss the notion at once. We think stereo is the only answer to the need for realistic music reproduction in the home. This, of course, precludes inviting

the New York Philharmonic into your living room, with the resultant complications involved. Before anyone from the New York Philharmonic can take umbrage, let us explain we relish their music, but doubt our living room's physical capacity. Why bother, why bother, indeed?

We do not like the term "expert," there are so many of them, so please put us down as one who likes his stereo, and has for a number of years. We have had stereo in one form or another kicking around the house for quite a time, and we have managed to learn to live with it, and to love it even for its vices. Call it binaural or stereo, a two channel sound reproduction would sound the same by any other name. Why bother is a good question, because, for a number of years, we had to go to considerable trouble, annoy-

ance, bother and aggravation to get our stereo playback. But let's go back to the beginning, a good place to start anything, and tell you of our trials, and tribulations.

Our first introduction to stereo came when we were browsing in a prominent record shop in New York. They were having a closeout sale of records. We spotted one particular record on the counter that looked down-right peculiar to us. It was a "Cook" record, and had proudly emblazoned on its jacket the word "Binaural." Just what this meant was not at all obvious to us. We asked the salesman, and he said that "It's a record that you play with two needles," a most profound and uninformative statement. The very idea of this fascinated us, and since it was cheap, and we can't resist a bargain, we bought it.

This represents the beginning of a long, sad saga. We took the thing home, and played it with the one needle system we had. We found the whole thing utterly ridiculous. Why in the world should you put the same music on a record twice? It is only fair to all involved to say that, we felt the two recordings had a slightly different sound, but why on earth two? Figuring all hi-fi addicts to be nuts anyway, we let it go at that for a while.

One day a friend, this we sometimes doubt, told us you had to use two pickups, two amplifiers and two loudspeakers to play the record. Why? Well, he didn't exactly know, but this was what you had to do anyway. It still seemed like tom-foolery to us.

About this time there was a Hi-Fi Show in New York, and we wended our merry way to it, little realizing the consequences. Oh, rue the day! At this show we visited an exhibition room operated by a small recording company called "Cook." Here, in awe-inspiring fashion, we found out why there were two tracks.

Late that night or early the next morning to be more precise, after many hours of labor, we had managed to fix up our transcription turntable with two pickups. These we connected to a borrowed amplifier, and speaker, as well as our own system. It was early the next morning before we quit listening to our lone Binaural record, and its two pickups, amplifiers, and speakers. We had the disease, our own diagnosis was a "fatal case."

Such a magnificent sound demanded our most immediate attention. We called the Cook people, and they said that they had a gadget which would, like a sidecar on a motorcycle, convert my pickup for binaural records. I drove to Stamford the next day, by car not motorcycle, and after a lengthy search found the Cook firm, snuggled next to the Bozak people who make those fabulous speakers. Here, after considerable difficulty, I managed to buy one of the sidecars and several records.

For several months I was happy though frustrated. My marriage was on the brink of disaster. The good wife was tired of tip-toeing around the house to make sure my pickups stayed in the groove, so to speak. There must be a better way to make this new sound available, I was firmly convinced, but in my ignorance, I was willing to put up with the bother to hear the sound I got. The problem was how to keep two separate phonograph cartridges in the same relative groove at the same time, and not have to run to the player every twenty seconds. They even had a special record for adjusting your cartridge position and probably still have, if you could keep the cartridges in the right grooves long enough to adjust them. I bought the record, but dismal failure was the result, my fault, I was told, and it probably was.

About this time I read in a magazine about another firm which made Binaural records, some outfit in Livingston, New Jersey, called Livingston Electronics. Being lazy, I called them on the telephone and managed to get hold of a rather friendly and enthusiastic fellow named Ched Smiley. He informed me that they made a tone arm, which was, they felt, a wee bit easier to play these binaural records with, and lots more costly, and that they, too, had a library of such recordings. He also said, in passing, that they had tape recordings. Of course, I ordered an arm, and an assortment of records, die-hard that I am. I watched for the postman with due diligence for days, and finally, it came, a Livingston Binaural arm and my new records. Despite Mr. Smiley's avid claims that his eight-year-old daughter could set the arm down perfectly each time and keep the tracks in perfect synchronism, I experienced difficulty. (I have since seen Mr. Smiley's lovely daughter, and wish I had a nine-year-old son.) At any rate, I still was in the same trouble. I complained bitterly to Mr. Smiley, via long distance telephone. (In the meantime, I had moved to Michigan.) He sent me a tape, a Binaural tape, and I found myself in utopia, almost.

Many long hours of wiring, and numerous burns, closely approximating third degree, and I had built a pair of tape amplifiers, using only three tubes of Unguentine. Coupled with a special tape deck I had ordered from Livingston, this made up a Binaural tape playback system. With feverish hands, I had a virus infection at the time. I put my tape on the deck, and waited for the leader to get by the heads. With a never-to-be-forgotten thrill, the full vista of tape stereo came forth from my speakers. This was *the* sound, and no problem of pickups wandering on the record. The tape was nailed fast in synchronism, I had been assured. It wasn't long before I broke the tape, and with fear and trepidation, I spliced it. Lo and behold, the darn thing was still in synchronism. This I felt was the final answer.

Not being too adept at tape recorder design, I had a bucketful of hum, and a number of other things we'd better leave unmentioned, wrong with my system, but at least it



... even the cat had to tiptoe to keep the needles in the grooves of a stereo disc record.

stayed put, and it sounded like nothing I had ever heard.

About this time the author went to work at VM, the Voice of Music. Here we found a receptive ear on the part of Kjell Gaarder, Research Director, to our enthusiasm for stereo. They had even designed their machine with space for another head to accommodate stereo playback. Before too long we found ourselves working under Kjell Gaarder with fellow VM Engineers, Lorenz and Driscoll in the design and release of the first mass-produced low-cost stereo unit, the famed VM Stere-O-Matic Conversion Kit. Here, at last, as recorded in the pages of "Tape Recording," was an economical tape system for stereophonic playback. At about the same time, the line of Ampex tape playbacks appeared, and stereo was on the way.

Shortly afterwards, the rash of new stereo tapes appeared. Everyone, even the great and mighty RCA, was aboard the bandwagon. Here, truly, was the birth following the labor pains of Livingston. Now, all you hear about is tape stereo, and if you are lucky, all you hear is stereo.

Having related our own experiences with stereo, what is the situation today? Remember the old battle of the speeds in records? We find ourselves in the same situation with stereo tape, but with a difference. Here we have some strong arguments to go in a certain direction, for a given application. As far as we can tell, all recording companies are now releasing tapes two ways, stacked and staggered. If any companies are not, and we have omitted mention of them, they are better off omitted.

This time the battle of speeds has become one of economics. To stagger is relatively inexpensive, to stack costs money of consequence at the moment. To stack permits easier editing, if you are concerned with editing to 1/5 of a second. At this point, the advantage of stacked heads over staggered heads ceases to exist. (We have already said we are biased.) With staggered heads, provided you were smart enough to leave room for an extra head in your transport, realizing binaural or stereo was coming and fast, you have lower head initial and replacement costs. Unless stacked head design and manufacturing are extremely closely controlled you have better ability to control alignment of the head to the tape, and less cross-talk from channel to channel with staggered heads. Thus, we find ourselves engaged in a great civil war to see whether stacked or staggered will win, while we sit back and snicker, since you can take your pick of head systems anyway, be our guest.

We can also, being biased, enjoy the struggles of several companies who blatantly announce that they have stacked heads available, until you try to buy one. Then they rather oddly evade the issue, and you wind up with staggered heads anyway. We have actually seen stacked heads *which work* made by some firms. There may be others who have them, but every time you try to buy one, they tell you they will be in production in about ten weeks. One firm has told us this three times, at consecutive ten week intervals. This is subject to change on 10 minutes notice and the rumor factories are working overtime.

The writer will not try to tell you what stereo or binaural sounds like. Stereo you gotta hear. Stereo is with speakers, binaural with phones, should you be violently concerned. All we can say is put on your snow shoes, if you haven't heard it yet, and hear it but quick. Please, don't be like the editor of one of our biggest radio and "science fiction" magazines, who was told stereo didn't work with loudspeakers, and believed it. He now has a number of articles

in his magazine on stereo, ersatz and genuine, and has obviously seen the error of his ways. We are going to bake him a "humble" pie tonight. Hear it, be your own judge. Where there is this much smoke, something must be burning, or somebody.

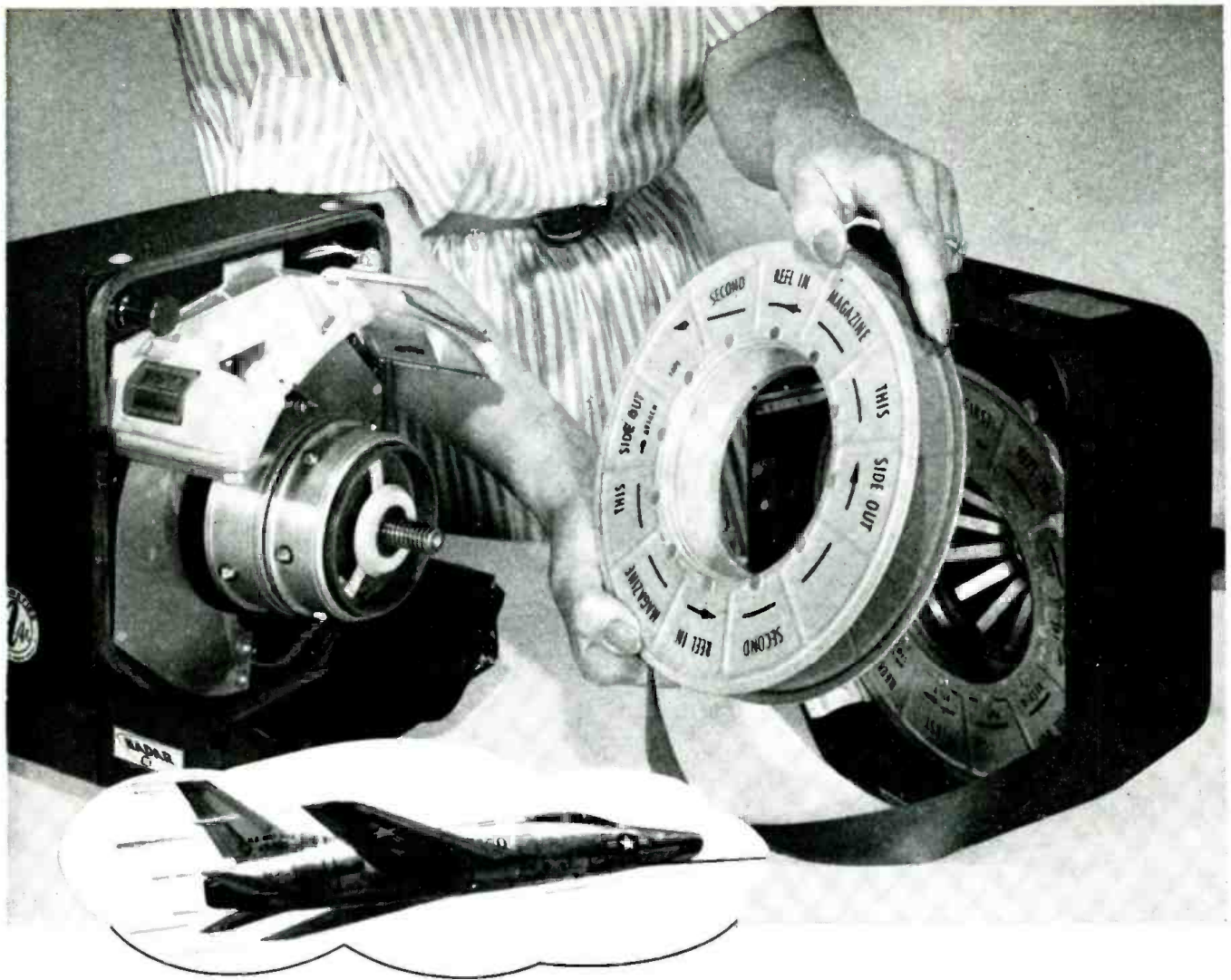
Naturally, when anything good appears, someone will figure out a short-cut or a way to complicate things. There is a rash of articles in some of our more prominent publications concerning the production of "synthetic" or as we prefer to call it, "ersatz" stereo. There are also a few people who feel that two tracks are not as good as three. For these people we suggest four, or even sixteen tracks. After all, listening enjoyment, if you figure as some folks must, doubles as the cost squares. There are others, like your benighted author, who feel that two is as good as four, particularly when the complications and cost square; and three only sounds better in rooms approximately the proportions of the New York Coliseum. For further details on this matter, we refer you to Euclid.

There has never been a development in the field of audio which has not had its detractors and usual host of people who have "better" answers. At the same time, there has never been any development in audio which has had as many sincere, capable advocates. Some years ago, in the course of writing a demonstration tape, the father of modern tape stereo said, "There is no way known to modern science of separating a recording once it has been put together." (Ched Smiley . . . Livingston Demo Tape 1953.) This is still true, irrespective of half-baked attempts to the contrary. Despite the claims of many authors in the popular radio press, any demonstration will prove the truth of the words of "the great white father of stereo." With great diligence, enterprise and plentiful waste of money, we have tried most of the "ersatz" systems, and, we feel, *real* stereo is worth the bother, if it is a bother now-a-days.

While we have enjoyed stereo as a playback medium, and, to go along with the Elvis Presley fans, feel it to be the "most," we cannot ignore stereo recording, which is even more "most." Where the stereo "recorded" tape leaves off, your own stereo tapes, recorded by yourself take up. While we cannot all be lucky enough to record the Florence May Festival Orchestra, much good local musical talent is available and is well worth the effort of recording in stereo, if not monaural.

Up to the present, most stereo recording equipment available has been prohibitive in cost. This was a condition which could not long exist, due to the competitive spirit in the tape field, the demand for reasonably-priced, stereo record equipment, and the yawning abyss in the tape fans' pockets.

Let's face it, stereo is here. Stacked, staggered, or switchable (hermaphrodite) it will survive. It has already proven its ability to survive, its will for survival. Despite all the "miraculous" new systems, 3 tracks, two tracks each direction, criss-crossed heads, and the host of ersatz systems, we find good old fashioned two channel stereo growing by leaps and bounds. "Stereo why bother" is a good question, but there's no bother anymore on playback, just good listening, this explains why we are concentrating on recording at present, we love bother. We are going to make the most of the little time left before the "ready-made," "store bought" home stereo recorders are available to all. We have to leave now, we are going to record a train wreck in stereo, gotta go down and jam the switch, before the train gets there.



New airborne equipment records vital supersonic data on tapes made with **MYLAR***

Lightweight airborne recorder developed by the Autometrics Division of North American Aviation requires high-strength recording tapes that can operate over a wide range of altitudes . . . in extremes of weather and temperature. Tapes made with "Mylar" polyester film meet *all* these rugged conditions of use. "Mylar" gives recording tapes lasting strength never before available in ordinary tapes—plus these important performance benefits:

NO BREAKAGE PROBLEMS: "Mylar" is the toughest of all plastic films . . . tapes made with "Mylar" are unbreakable under normal operating conditions.

NO STORAGE PROBLEMS: Tapes are unaffected by extremes of temperature, humidity . . . no special storage care needed.

EXTRA ECONOMY, LONGER RECORDING TIME: Because "Mylar" is strong, thinner gauges are used. This means 50% more tape on the same size reel.

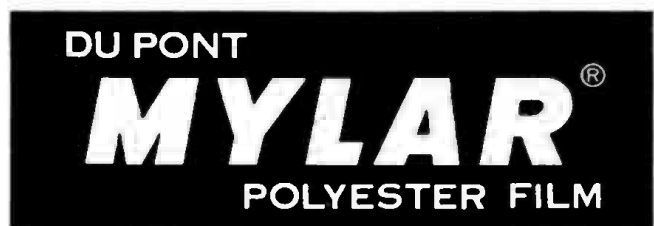
LONGER LIFE: "Mylar" contains no plasticizer—will not dry out or become brittle with age . . . today's recordings can be faithfully played back many years from now.

Tapes made with Du Pont "Mylar" are ideal for home use, industrial, religious, legal and professional recording. Next time you see your supplier, pick up a reel or two of your favorite brand of tape made with "Mylar".

Du Pont manufactures the base material, "Mylar"—not finished recording tape.
* "Mylar" is Du Pont's registered trademark for its brand of polyester film.



BETTER THINGS FOR BETTER LIVING...THROUGH CHEMISTRY





NEW STEREO RECORDER TO MAKE BOW

... examination of lab prototype of forthcoming popular priced stereo-recorder indicates new and exciting field opening for recordists.

JUST over the horizon is a new stereo recorder which is scheduled to make its bow to the public sometime after the first of the year. At the present the unit is in the prototype stage—on its way out of the lab and into the factory production line. V-M Corporation will be the proud papa of the new baby. No price has been set on it but it is estimated that it will be about \$250.

With the ever increasing use of stereo music from recorded tape in the home it was natural that tape recordists would look forward to the day when they could make their own stereo tapes. The interest prompted V-M to enter the field.

The recorder will be known as the model 703 and the controls very closely resemble the current model 711 which will record monaurally but has a stereo playback feature built in. The principal difference is in the volume and tone control knobs which are now dual to take care of the two channels.

The recorder will make either stacked or staggered tapes at the flick of a switch mounted on the top of the case. Two magic eye tubes, one for each channel will indicate recording volume and the recordings can be monitored using a stereo headset. The prototype shown in the illustration has undergone a number of changes in design and ar-

range for production, however, the finished recorder will resemble the one shown above.

In addition to making staggered or stacked tapes in stereo, the recorder will also make single track or dual track recordings at both $3\frac{3}{4}$ ips and $7\frac{1}{2}$ ips. It will play back all types but must be connected to external amplifiers and speakers as its output is limited to the power of the preamplifiers built into the recorder.

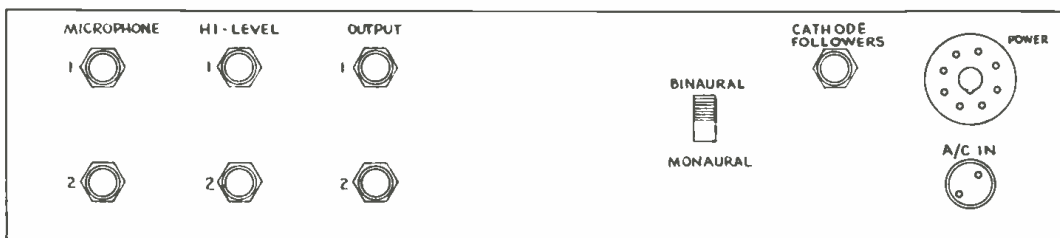
To avoid hum complications and to keep the recorder as compact as possible, the power supply has been kept separate and is carried in the lid. It is small, about 4x4x5 inches and is controlled by the switches on the recorder.

All inputs and outputs will be found on the rear of the case and are shown in the drawing below.

Other features planned include a special V-M designed capacitor motor, variable equalization, low hum and thermal noise, wow and flutter to broadcast standards, half or full track erase, shock mounted preamplifiers, cathode follower for power output and high level inputs for tuners or crystal cartridges.

Storage for reels, mikes, power supply, etc. will be in the lid which is detachable from the recorder. Maximum reel size is 7 inch.

Right: the back panel of the new stereo recorder will have the inputs and outputs shown. The cathode follower will be a double jack covering both channels.



Here is the "KNOW-HOW" you need

NOW IN STOCK FOR IMMEDIATE SHIPMENT



Library size 5½ x 8¼ inches profusely illustrated—13 fact packed chapters, 190 pages

ORDER BOTH OF THESE NEW BOOKS TODAY

TAPE RECORDERS and TAPE RECORDING

Written so that anyone can understand it—profusely illustrated so that anyone can easily follow directions—this new layman's manual

by

Harold D. Weiler

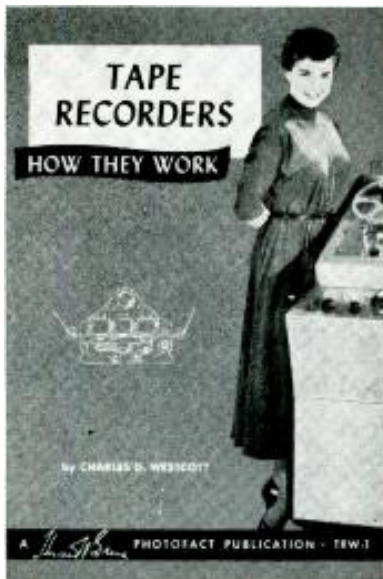
(author of the popular book, "High Fidelity Simplified") is a "must" for every owner of a tape recorder.

Library size—just 5½ x 8¼ inches—this wonderfully helpful new book by an author who knows his subject and knows how to write so that everyone can understand him perfectly, contains over 100 illustrations and diagrams—13 chapters of practical, down-to-earth suggestions that spell better recording results for each of your customers.

Tough Paper Binding \$ 2.95

Handsome Cloth Binding \$ 3.95

NOW IN STOCK FOR IMMEDIATE SHIPMENT



Library size 5½ x 8¼ inches profusely illustrated—11 fact packed chapters, 177 pages, 167 illustrations

TAPE RECORDERS—How They Work

Written in a popular style—profusely illustrated this excellent volume tells "what's under the cover." Service technicians, Hi-Fi enthusiasts and tape recordists will benefit from this book

by

Charles G. Westcott

Chapters include: Theory of Magnetic Recording, The Motorboard, Tape Transport Mechanism, Drive Motors, Volume Indicators, The Bias Oscillator, Equalization Circuits, The Record and Playback Amplifier, Magnetic Recording Heads, Magnetic Recording Tape, Test Procedures and Index. Has 167 illustrations.

Tough Paper Binding \$ 2.75

order from your dealer or use coupon below.

**Book Department
TAPE RECORDING
Severna Park, Md.**

Please send me the books checked below. I enclose

- Tape Recorders and Tape Recording, cloth bound . . . \$3.95
- Tape Recorders and Tape Recording, paper bound . . \$2.95
- Tape Recorders—How They Work, paper bound . . . \$2.75

Name

Address

City Zone State

Order Yours Today

DIRECTORY OF STEREO EQUIPMENT

Editor's note: this directory is of equipment which is especially built for stereo. For this reason we have omitted listing preamps, amplifiers and speakers of the regular sort which, of course, can be made part of any stereo system.

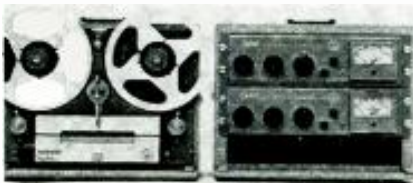
STEREO RECORDERS



AMPEX S-5290 Stereo Recorder. In-line heads. Has full track erase, two-track record and playback. Basically a 601 portable recorder with modifications for stereo. 50 to 10,000 cps \pm 2 db. In case, \$995.



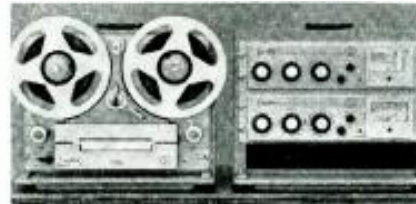
STEREO MAGNEMITE Model 611. Battery and spring driven portable. 50-7500 cps at 7½ ips \pm 2 db. Also available in 3¾ and 15 ips. In-line heads. \$355 to \$435 depending upon speed.



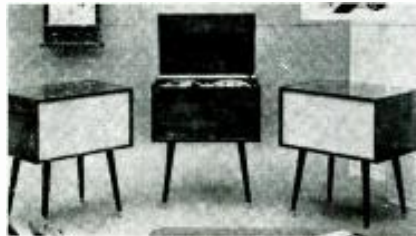
BERLANT 33. In-line heads, dual recording and preamplifiers. Has upper and lower track erase, stereo record and playback. Berlant line has synchronous direct drive for timing accuracy. Price \$995.



BERLANT 33-4. Housed in three portable enclosures containing a tape transport and two speaker-amplifier enclosures. In-line heads. Stereo record and triple playback. \$1,295.



CONCERTONE 23-2. Same features as the Berlant 33 except use of two speed induction motor for direct tape drive. Both models will accommodate 10½ inch reels. Price \$795.



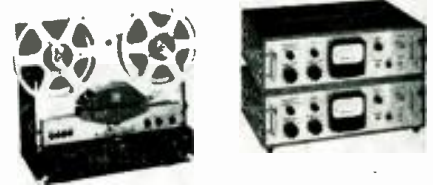
CONCERTONE 29-7. Contained in three wood cabinets for home use. Will record and playback full track, half track and stereo tapes. Other models and combinations are available. Consult manufacturer.



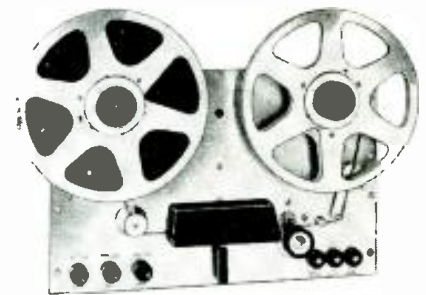
FERROGRAPH 88. Records and plays back half track, full track and stacked stereo. Two recording amplifiers, 1 meter swirchable to either channel. Output 600 ohms for lines or amplifiers. Price \$595.



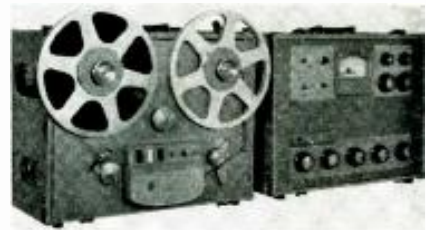
MAGNECORD PT6-BA2H7. Three speeds by capstan change. 50-7500 cps at 7½ ips \pm 2 db. Erase and two record playback half track heads. Staggered heads. Used with Preamp-amplifier PT6-BN. Price \$425. Case \$20.



MAGNECORD M90-BA. Basic M-90 mechanism with stacked head. Both high and low mike impedance inputs, remote control. Frequency response at 7½ ips 30 to 15,000 cps \pm 2 db. Cross talk less than S/N ratio. Price \$2,165 including case.



PENTRON DYNACHORD. STEREO SM-2 mechanism. 7½ and 15 ips speeds. Frequency response 40-10,000 cps \pm 2 db. at 7½ ips speed. 10½ inch reels. Stacked heads. Price \$595, preamplifiers \$130 each. Three motors, push button control. Automatic cycling.



STANCIL-HOFFMAN R-5. Made in 1 to 4 or more channels. 2 channels on ¼" tape, more on ½" tape. 10½" reels. 7½ and 15 ips speeds. 45 to 10,000 cps at 7½ speed \pm 2 db. Price \$1,490 in portable cases.

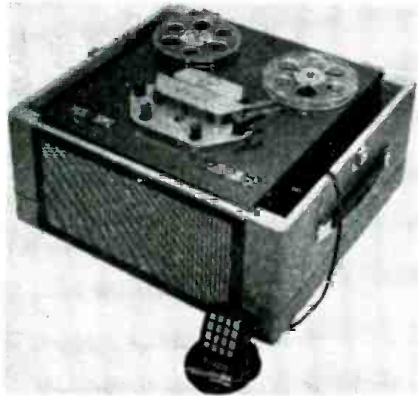
MONAURAL RECORD AND PLAYBACK PLUS STEREO



AMPEX A 122 PORTABLE. Records and plays dual track tapes at 3¾ and 7½ ips and also plays back stacked stereo. Matching unit A692 speakers (see next page). Also available in console. Price \$449.50.



AMPEx A121 TABLETOP. Same recorder as preceding except in wood cabinets of modern design. Used with two A621 amplifier speakers or present hi-fi system. Complete system shown, \$895. Recorder \$495, speakers \$229.50.



BELL BT-76. Records and plays back dual track tapes at 1 7/8, 3 3/4 and 7 1/2 ips. Plays back stereo using radio or TV or amplifier as second channel, or amplifier speaker 300 D. Staggered heads. Price \$189.95.



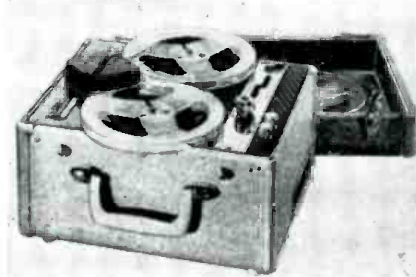
PENTRON STREOMAGIC EMPEROR. Records and plays back monaural tapes at 3 3/4 and 7 1/2 ips. Frequency response 40 to 12,000 cps. Plays staggered head tapes using radio, TV or amplifier for second channel. Price \$269.95. Also model HFW 500-S at \$319.95 and Stereomagic Pacer-maker, Model T-90S, staggered head at \$219.95.



V-M TAPEOMATIC. Plays staggered head

tapes using radio, TV or external amplifier for second channel. First home recorder to adapt to stereo. Records and plays back monaural tapes at 3 3/4 and 7 1/2 ips. Price Model 711, \$209.95.

TAPE PLAYERS



EMC CONSTELLATION TAPE PLAYER. Plays stacked or staggered tapes, full track or dual track monaural. Has two preamplifiers, speaker and one power amplifier in case. May be connected to radio or TV for second channel. Model 2000, 7 1/2 ips, \$209.95. Model 3000, in-line, only \$189.95.

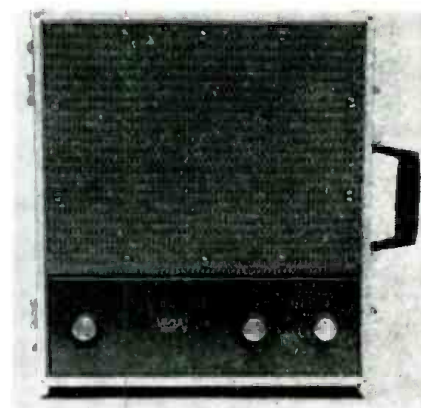


RCA VICTOR STEREOTAPE PLAYER. Plays stacked tapes, full track or dual track. Two units, one player and one speaker. Also available in portable cases. Player \$276, speaker \$85, both units, mahogany, \$350.

AMPLIFIER-SPEAKERS



BELL AMPLIFIER-SPEAKER 300-D. To match Bell BT-76 stereo playback recorder. May be used as separate hi-fi amplifier-speaker or as complete second channel unit for any stereo rig. Price \$89.95.

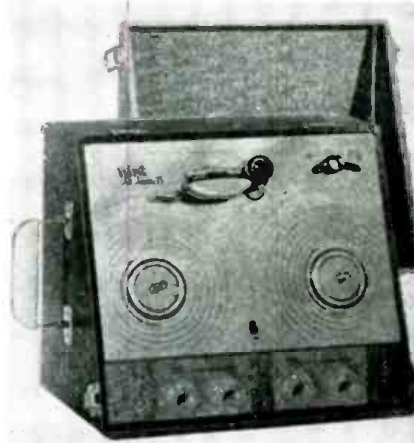


AMPEx A692 AMPLIFIER SPEAKER. Built to match A112 recorder with stereo playback. Has indicator light, tone and volume controls. May be used with any unit for second channel. Price \$199.50.

STEREO TAPE DECKS



BRENNEL MARK IVB TAPE DECK. (Fenton Co.) Four staggered stereo heads, three motors. Operates at 3 3/4, and 7 1/2 or 7 1/2 and 15 ips. Matching preamps available. Deck price \$114.50.



VIKING FF75 B. Staggered heads. Model FF75SU in-line and staggered heads, playback units. Model FF75R stacked head playback plus monaural record and playback. Matching preamps and amplifiers available. Prices from \$69.95.

WEARITE TAPE DECK (Ercona Corp.) Model F-106. Stacked or staggered on customer's order. 3 3/4 and 7 1/2 ips speeds. Matching amplifier is Ferrograph Model FS 103. Appearance is similar to Ferrograph Stereo Recorder. Price \$250.

STEREOPHONIC TUNERS



ELECTRO-VOICE STEREO TUNER. Model 3303. Two separate tuners, one FM and one AM in single case for reception of stereo broadcasts. Has music control center built-in. Must be connected to external amplifiers. Price \$279.50.



ELECTRO-VOICE STEREO TUNER. Model 3304. Same as above except that music control center is not incorporated. Price \$239.50.



H.H. SCOTT STEREO TUNER. Model 330-B. May be used with any amplifier. Has two complete tuners, one AM, one FM. FM dipole antenna supplied. Price \$199.95.

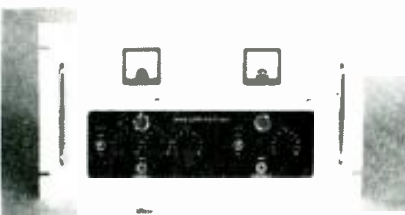
AMPLIFIERS and PRE-AMPS



BELL STEREOPHONIC AMPLIFIER. Model 3DTC. Two complete preamps and power amplifiers in one case. Can be fed direct from tape head, or stereo tuners. Can also be used as a straight amplifier. Inputs grouped on back of chassis, controls on front. Available without cover for installation in custom built systems at \$10 less. Price as shown \$159.95.



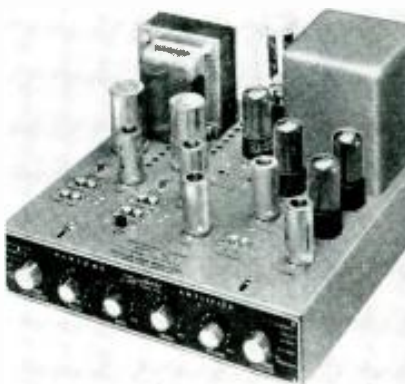
BOGEN STEREO TAPE PLAYBACK AMPLIFIER. Has dual pre-amps and a 10 watt amplifier in compact case. Outputs from stereo heads can be fed into unit. One pre-amp output feeds hi-fi system, 10 watt amplifier feeds additional speaker. Price \$59.50.



FERROGRAPH STEREO AMPLIFIER. Model FS 1032 channel, recording and playback amplifier, tone controls operate in record or playback. Suitable for use with Wearite C stereo deck. 15 watts each channel, complete with power pack, 2 stage bias and erase oscillator. Price \$450.



MAGNECORD PT6-BN STEREO AMPLIFIER. Two low level, low impedance mike inputs, master and individual channel gain controls. Used with Magnecord PT6-BA2HZ. Price \$169.



NEWCOMB STEREO AMPLIFIER. Model 3D-12. Two complete preamps and amplifiers in one unit. Single knob control of both channels, hum balance controls, 12 watts output each channel. \$179.50.

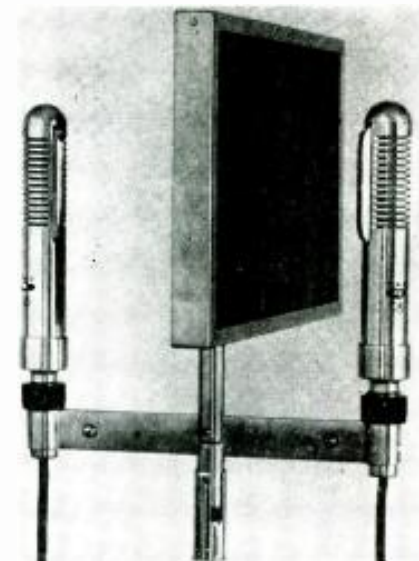


VIKING PREAMP. Model PB60. Made to match FF75 decks, two required for stereo playback. Controls are volume and variable equalization. Price \$21.50



VIKING RECORD PLAYBACK AMPLIFIER RP61. Used with FF75 tape deck series to add monaural record functions to stereo playback unit. Price \$74.50.

MICROPHONE STANDS



FENTON BINOR STEREO RIG (B & O). Has acoustical separator and mounting brackets. Provides stereo separation cancellation of feedback and perfect response pattern. Designed for Fenton B & O mikes. Price \$38.95.

STEREO CONVERSION KITS

STEREO CONVERSION KITS. Kits consisting of heads, pre-amplifiers and necessary hardware are available from Bell, Fenton and V-M to convert presently owned monaural recorders to stereo playback. Berlant also has kits available to convert their line to stereo. While kits are specifically designed for recorders mentioned, it is sometimes possible to use them on others. Heads for mounting on any recorder will shortly be available.

Catalog of Recorded Stereophonic Tapes

CLASSICAL

BARTOK, Bela

Passacaglia in C minor, Kurt Rapf, organ. Also Mendelssohn, *Sonata No. 1*—AUDIOSPHERE (Livingston), 7", 7 1/2 ips. \$11.95. 711BN
Prelude in E Major. See VIVALDI, WEBCOR, 2923-3.

Toccata and Fugue in D minor, Kurt Rapf, organ. Also Mendelssohn, *Sonata No. 2*; and Franck, *Chorale in E Major*—AUDIOSPHERE (Livingston), 7", 7 1/2 ips. \$11.95. 711BN

BACH, Johann Sebastian

Concerto for Orchestra, Chicago Symphony Orchestra, Fritz Reiner, conductor—RCA VICTOR, 7", 7 1/2 ips. \$14.95. ECS-9 or ECSD-9
Passacaglia and Fugue, C minor. See BACH, SONOTAPE, SWB 8-061.

Humanitarian Dances. See DVORAK, WEBCOR, 2923-2
Toccata and Fugue, D minor. Also, Bach, *Passacaglia and Fugue, C minor*, Carl Weinrich, organ of Varfrukyrka, Skanninge, Sweden—CONCERT HALL, 7", 7 1/2 ips. \$9.95. SWB 8-061

BEETHOVEN, Ludwig Von

Moonlight and Pathetic Sonatas, Raymond Lewenthal, piano—SONOTAPE, 7", 7 1/2 ips. \$9.95 SWB 8-062
Sonata No. 23, F minor, Op. 57 ("Appassionata"), Eugene Petri, piano—SONOTAPE, 7", available Nov. 30, 7 1/2 ips. \$9.95. SWB 8-060

Symphony No. 9 in D Minor ("Choral"), Netherlands Philharmonic Orchestra and Chorus, with Soloists, Walter Goehr, conductor—CONCERT HALL, 7", 7 1/2 ips. \$23.00. CHT/BN-5-2

BEETHOVEN, Ludwig Von

Moonlight and Pathetic Sonatas, Raymond Lewenthal, piano—SONOTAPE, 7", 7 1/2 ips. \$9.95 SWB 8-062
Sonata No. 23, F minor, Op. 57 ("Appassionata"), Eugene Petri, piano—SONOTAPE, 7", available Nov. 30, 7 1/2 ips. \$9.95. SWB 8-060

Symphony No. 9 in D Minor ("Choral"), Netherlands Philharmonic Orchestra and Chorus, with Soloists, Walter Goehr, conductor—CONCERT HALL, 7", 7 1/2 ips. \$23.00. CHT/BN-5-2

BERLIOZ

Roman Carnival. See LISZT, CONCERT HALL, CHT/BN-11.
Symphonic Fantastique, Op. 14, Boston Symphony Orchestra, Charles Munch, conductor—RCA VICTOR, 7", 7 1/2 ips. \$18.95. GCS-6 or GCSD-6

BIZET, Georges

Jeu D'Enfants Suite, Glyndebourne Festival Orchestra, conducted by Vittorio Gui—HIS MASTER'S VOICE, 7", (in-line only), 7 1/2 ips. write for price—SAT 1002

BLOCH, Ernest

Prayer. See DVORAK, WEBCOR, 2923-2.

BOCCHERINI, Luigi

Minuet from Quintet in E Major. See MENDELSSOHN, WEBCOR, 2922-3.

BOLZONI

Minuet. See VIVALDI, WEBCOR, 2923-3.

BORODIN, Alexander

Nocturne from D Major Quartet. See MENDELSSOHN, WEBCOR, 2922-3.

Polortian Dances. See MOUSSORGSKY, AUDIOSPHERE (Livingston), 703BN.
Polortian Dances from "Prince Igor". See SMETANA, CONCERT HALL, CHT/BN-18.

BRAHMS, Johannes

Concerto in D, Op. 77, Jascha Heifetz, violinist, Chicago Symphony Orchestra, Fritz Reiner, conductor—RCA VICTOR, 7", 7 1/2 ips. \$14.95. ECS-4 or ECSD-4
Academic Festival Overture. See ROSSINI, AUDIOSPHERE (Livingston), 7051N.
Quartet in A Minor, Op. 51, No. 2, The Fine Arts Quartet—CONCERTAPES, 7", 7 1/2 ips. \$11.95. 23-4B
Quartet in G Minor, Op. 51, No. 20. See MOZART, WEBCOR, 2923-4.

Symphony No. 2, in D, Op. 73, Boston Symphony Orchestra, Charles Munch, conductor—RCA VICTOR, 7", 7 1/2 ips. \$16.95. FCS-14 or ECSD-14

CHAUSSON

Poema, Op. 23, Introduction and Rondo. Also, Saint-Saens, *Capriccioso, Op. 28*, David Oistrakh, violinist, Boston Symphony Orchestra, Charles Munch, conductor—RCA VICTOR, 7", 7 1/2 ips. \$10.95. CCS-16 or CCSD-16

CHOPIN, Frederick

Homage To Paderova—No. 1, Autumn Leaves, Philharmonia Orchestra, conducted by Erem Kurtz—HIS MASTER'S VOICE, 7", (in-line only), 7 1/2 ips. write for price. SBT 1250

DEBUSSY, Claude

Afternoon of a Faun, The Florence May Festival Series, Festival Orchestra, Vittorio Gui, conductor. Also, Schumann, *Manfred Overture*; and Glinka, *Kamarinskaja*—AUDIOSPHERE (Livingston), 7", 7 1/2 ips. \$11.95. 704BN
Nocturnes, Boston Symphony Orchestra, Pierre Monteux, conductor—RCA VICTOR, 7", 7 1/2 ips. \$10.95. CFS-12 or CCSD-12

Quartet in G Minor, Op. 10, Fine Arts Quartet, Leonard Sorkin, violin, Joseph Stepansky, violin, Irving Hiner, viola, and George Sopkin, cello. Also, Haydn, *Andante, O Mio Padre Allegretto, from Quartet, Op. 76, No. 2*; Granados, *The Lady and the Nightingale*, Robert McDowell, Pianist; Ravel, *Alborada Del Grizois*; Liszt, *Sonata del Petrarca*; and Liszt, *Mephisto Waltz*—WEBCOR, 7", 7 1/2 ips. \$12.00. 2923-1
Quartet in G Minor, Op. 10, Fine Arts Quartet—CONCERTAPES, 7", 7 1/2 ips. \$11.95. 23-1A

DE FALLA, Manuel

Jota. See DVORAK, WEBCOR, 2923-2.
El Amor Buja, played by the Netherlands Philharmonic Orchestra, Walter Goehr, conductor, Annie Delorio, contralto—CONCERT HALL, 7", 7 1/2 ips. \$11.95. CHT/BN-2

DELIBES, Leo

Coppelia, Sony Stereophonic Orchestra, Tadashi Hamashita, Conductor. Also, Paganini, *Mojo Paganini*; Strauss, *Poika*; and Strauss, *Empire Waltz*—SONY STEREO, CBS (Inter-architect), 7", (in-line only) 7 1/2 ips. \$11.95. D-2

DINICU

Hora Staccato. See DVORAK, WEBCOR, 2923-2.

DITTERSDORF, Karl Von

Quartet in E Flat, Fine Arts Quartet, Leonard Sorkin, violin, Joseph Stepansky, violin, Irving Hiner, viola, and George Sopkin, cello. Also, Turina, *Joachim, The Prayer of the Tareador*; and Wolf, Hugo, *Italian Serenade*—WEBCOR, 5", 7 1/2 ips. \$8.00. 2922-4
Quartet in E Flat Major, The Fine Arts Quartet. Also, Turina, *Prayer of the Tareador* and Wolf, *Italian Serenade*—CONCERTAPES, 7", 7 1/2 ips. \$11.95. 22-1

DUKAS, Paul

Sorcerer's Apprentice, The Florence May Festival Series, Festival Orchestra, Vittorio Gui, conductor. Also, Pfitzner, *Little Symphony, Opus 43*, Vienna String Symphony, Kurt Rapf, conductor—AUDIOSPHERE (Livingston), 7", 7 1/2 ips. \$11.95. 708BN

DVORAK, Antonin

Concerto in B Minor, Paul Torteller, cello, and the Philharmonia Orchestra, conducted by Sir Malcolm Sargent—HIS MASTER'S VOICE, 7", (in-line only), 7 1/2 ips. write for price. SAT 1006/1
Quartet in F Major, Op. 96, (The American), Fine Arts Quartet, Leonard Sorkin, violin, Joseph Stepansky, violin, Irving Hiner, viola, and George Sopkin, cello. Also, Haydn, *Adagio Cantabile from Quartet, Op. 64, No. 5*; Bartok, *Bela, Romanian Dances*, Sorkin, Sopkin; and Alexander Joffe, piano; Bloch, *Prayer*; de Falla, *Jota*; Granados, *Intermezzo from Goyescas*; Hinciu-Helfetz, *Hora Staccato*; Ravel, *Habanera*; Gluck, Kreisler; Melodie; and Saint-Saens, *Allegro Appassionato*—WEBCOR, 7", 7 1/2 ips. \$12.00. 2923-2
Quartet in F Major, Op. 96 (American), The Fine Arts Quartet—CONCERTAPES, 7", 7 1/2 ips. \$11.95. 23-2A
Symphony No. 4 in G Major, Cincinnati Symphony Orchestra, Thor Johnson, conductor—A-V TAPE LIBRARIES, 7", 7 1/2 ips. \$16.95. AV-1547 (BN or BS)

DVORAK, Antonin

Concerto in B Minor, Paul Torteller, cello, and the Philharmonia Orchestra, conducted by Sir Malcolm Sargent—HIS MASTER'S VOICE, 7", (in-line only), 7 1/2 ips. write for price. SAT 1006/1
Quartet in F Major, Op. 96, (The American), Fine Arts Quartet, Leonard Sorkin, violin, Joseph Stepansky, violin, Irving Hiner, viola, and George Sopkin, cello. Also, Haydn, *Adagio Cantabile from Quartet, Op. 64, No. 5*; Bartok, *Bela, Romanian Dances*, Sorkin, Sopkin; and Alexander Joffe, piano; Bloch, *Prayer*; de Falla, *Jota*; Granados, *Intermezzo from Goyescas*; Hinciu-Helfetz, *Hora Staccato*; Ravel, *Habanera*; Gluck, Kreisler; Melodie; and Saint-Saens, *Allegro Appassionato*—WEBCOR, 7", 7 1/2 ips. \$12.00. 2923-2
Quartet in F Major, Op. 96 (American), The Fine Arts Quartet—CONCERTAPES, 7", 7 1/2 ips. \$11.95. 23-2A
Symphony No. 4 in G Major, Cincinnati Symphony Orchestra, Thor Johnson, conductor—A-V TAPE LIBRARIES, 7", 7 1/2 ips. \$16.95. AV-1547 (BN or BS)

FRANCK, Cesar

Chorale in E Major. See BACH, AUDIOSPHERE (Livingston), 711BN.

GERSHWIN

Phantasy in Blue, Philippe Entremont, Pianist, Concert Hall Symphony Orchestra, Walter Goehr, conductor. Also, Ravel, *Bolero*—CONCERT HALL, 7", 7 1/2 ips. \$11.95. CHT/BN-7

GLINKA, Michael

Kamarinskaja. See DEBUSSY, AUDIOSPHERE (Livingston), 704BN.

GLUCK, Christoph

Melodie. See DVORAK, WEBCOR, 2923-2.

GRANADOS, Enrique

Intermezzo from Goyescas. See DVORAK, WEBCOR, 2923-2.
Musica of piano recital, Robert Mac Dowell, pianist. Also, Ravel, *Musica of Liszt*, Music of—CONCERTAPES, 7", 7 1/2 ips. \$11.95. 23-1B
The Lady and the Nightingale. See DEBUSSY, WEBCOR, 2923-1.

GRIEG, Edvard

Peer Gynt Suite No. 1, Sinfonietta, L. Sorkin, cond. Also, Smetana, *Dance of the Comedians*—CONCERTAPES, 3", 7 1/2 ips. \$7.95. 502

HAYDN, Franz Joseph

Adagio Cantabile from Quartet, Op. 64, No. 5. See DVORAK, WEBCOR, 2923-2.
Andante, O Mio Padre Allegretto, from Quartet Op. 76, No. 2. See DEBUSSY, WEBCOR, 2923-1.
Finale from Lark Quartet. See MENDELSSOHN, WEBCOR, 2922-3.

Quartet in F Major, Op. 3, No. 5, Concert by Fine Arts Quartet and Guest Artists. Also, Schubert, *Quartet in E Flat Major, Op. 20*; and Mendelssohn, *Andante Scherzando from Viola, Quintet in B Flat, Op. 87*—WEBCOR, 7", 7 1/2 ips. \$12.00. 2923-5
Quartet in F Major, Op. 3, No. 5, The Fine Arts Quartet. Also, Schubert, *Quartet in E Flat Major, Op. 125, No. 1*—CONCERTAPES, 7", 7 1/2 ips. \$11.95. 23-5A
Symphony No. 101 in D Major ("Clock"), played by the Orchestre Pasdeloup de Paris, Louis Martin, conductor—CONCERT HALL, 7", 7 1/2 ips. \$11.95. CHT/BN-1

HAYDN, Franz Joseph

Adagio Cantabile from Quartet, Op. 64, No. 5. See DVORAK, WEBCOR, 2923-2.
Andante, O Mio Padre Allegretto, from Quartet Op. 76, No. 2. See DEBUSSY, WEBCOR, 2923-1.
Finale from Lark Quartet. See MENDELSSOHN, WEBCOR, 2922-3.

Quartet in F Major, Op. 3, No. 5, Concert by Fine Arts Quartet and Guest Artists. Also, Schubert, *Quartet in E Flat Major, Op. 20*; and Mendelssohn, *Andante Scherzando from Viola, Quintet in B Flat, Op. 87*—WEBCOR, 7", 7 1/2 ips. \$12.00. 2923-5
Quartet in F Major, Op. 3, No. 5, The Fine Arts Quartet. Also, Schubert, *Quartet in E Flat Major, Op. 125, No. 1*—CONCERTAPES, 7", 7 1/2 ips. \$11.95. 23-5A
Symphony No. 101 in D Major ("Clock"), played by the Orchestre Pasdeloup de Paris, Louis Martin, conductor—CONCERT HALL, 7", 7 1/2 ips. \$11.95. CHT/BN-1

Quartet in F Major, Op. 3, No. 5, Concert by Fine Arts Quartet and Guest Artists. Also, Schubert, *Quartet in E Flat Major, Op. 20*; and Mendelssohn, *Andante Scherzando from Viola, Quintet in B Flat, Op. 87*—WEBCOR, 7", 7 1/2 ips. \$12.00. 2923-5
Quartet in F Major, Op. 3, No. 5, The Fine Arts Quartet. Also, Schubert, *Quartet in E Flat Major, Op. 125, No. 1*—CONCERTAPES, 7", 7 1/2 ips. \$11.95. 23-5A
Symphony No. 101 in D Major ("Clock"), played by the Orchestre Pasdeloup de Paris, Louis Martin, conductor—CONCERT HALL, 7", 7 1/2 ips. \$11.95. CHT/BN-1

Quartet in F Major, Op. 3, No. 5, Concert by Fine Arts Quartet and Guest Artists. Also, Schubert, *Quartet in E Flat Major, Op. 20*; and Mendelssohn, *Andante Scherzando from Viola, Quintet in B Flat, Op. 87*—WEBCOR, 7", 7 1/2 ips. \$12.00. 2923-5
Quartet in F Major, Op. 3, No. 5, The Fine Arts Quartet. Also, Schubert, *Quartet in E Flat Major, Op. 125, No. 1*—CONCERTAPES, 7", 7 1/2 ips. \$11.95. 23-5A
Symphony No. 101 in D Major ("Clock"), played by the Orchestre Pasdeloup de Paris, Louis Martin, conductor—CONCERT HALL, 7", 7 1/2 ips. \$11.95. CHT/BN-1

HEIFETZ

Hora Staccato. See DVORAK, WEBCOR, 2923-2.

KREISLER, Fritz

Melodie. See DVORAK, WEBCOR, 2923-2.

LIEBERMANN

Concerto for Jazz Band and Symphony Orchestra, Chicago Symphony Orchestra, Sauter-Finegan Orchestra, Fritz Reiner, conductor. Also, Strauss, Jr., *Don Juan*, Chicago Symphony Orchestra, Fritz Reiner, conductor—RCA VICTOR, 7", 7 1/2 ips. \$14.95. ECS-3 or ECSD-3

LISZT, Franz

Les Preludes, Utrecht Symphony Orchestra, Paul Hupperts, conductor. Also, Berlioz, *Roman Carnival*, Netherlands Symphony Orchestra, Walter Goehr, conductor—CONCERT HALL, 7", 7 1/2 ips. \$11.95. CHT/BN-11
Après le Coup. See DEBUSSY, WEBCOR, 2923-1.
Musica of See GRANADOS, CONCERTAPES, 23-1B.
Piano Concerto No. 2 in A Major, Philippe Entremont, Pianist, Radio Zurich Orchestra, Walter Goehr, conductor—CONCERT HALL, 7", 7 1/2 ips. \$11.95. CHT/BN-6

Sonata del Petrarca. See DEBUSSY, WEBCOR, 2923-1.

MASSENET, Jules

Under the Lindentree. See ROSSINI, AUDIOSPHERE (Livingston), 705BN.

MENDELSSOHN, Felix

Andante Scherzando from Viola, Quintet in B Flat, Op. 87. See HAYDN, WEBCOR, 2923-2.
Concerto in E Flat Major, Op. 20, The Fine Arts Quartet and Guest Artists—CONCERTAPES, 7", 7 1/2 ips. \$11.95. 23-5B
Octet in E Flat Major, Op. 20. See HAYDN, WEBCOR, 2923-5.

Scherzo from E Minor Quartet, Fine Arts Quartet, Leonard Sorkin, violin, Joseph Stepansky, violin, Irving Hiner, viola, and George Sopkin, cello. Also, Borodin, *Nocturne from D Major Quartet*; Schubert, *Moment Musical*; Raff, *The Mill*; Tchaikowsky, *Andante Cantabile from D Major Quartet*; Boccherini, *Minuet from Quintet in E Major*; Haydn, *Finale from Lark Quartet*—WEBCOR, 5", 7 1/2 ips. \$8.00. 2923-3
Sonata No. 1. See BACH, AUDIOSPHERE (Livingston), 711BN.

Sonata No. 2. See BACH, AUDIOSPHERE (Livingston), 711BN.

MOUSSORGSKY, Modeste

Night on Bald Mountain, The Florence May Festival Series, Festival Orchestra, Vittorio Gui, conductor. Also, Borodin, *Polortian Dances*; and Shubert, *Valse Triplet*—AUDIOSPHERE (Livingston), 7", 7 1/2 ips. \$11.95. 703BN
Pictures at an Exhibition, played by the Netherlands Philharmonic Orchestra, Walter Goehr, conductor—CONCERT HALL, 7", 7 1/2 ips. \$11.95 CHT/BN-3.

MOZART, Wolfgang Amadeus

Concerto #1 (K. 418). See MOZART, Wolfgang, Amadeus, LIVINGSTON, BO 7-5 BN.
Concerto #2 (K. 417). See MOZART, Wolfgang, Amadeus, LIVINGSTON, BO 7-4 BN.
Concerto #3 (K. 447) for french horn, performed by James Stagliano and the Zimber Sinfonietta, Album 1. Also, Mozart, Wolfgang, Amadeus, *Concerto #2 (K. 417)*—LIVINGSTON, 7", 7 1/2 ips. \$11.95 BO 7-4 BN
Concerto #3 (K. 495) for french horn, performed by James Stagliano and the Zimber Sinfonietta, Album 2. Also, Mozart, Wolfgang, Amadeus, *Concerto #1 (K. 417)*—LIVINGSTON, 7", 7 1/2 ips. \$11.95 BO 7-5 BN
Eine Kleine Nachtmusik. See VIVALDI, CONCERTAPES, 23-3A.

Nocturne, Excerpts from Act 2, Sesto Bruscantini, Graziella Sciutti, Jan Wallace, Monica Sinclair, Rise Stevens, Franco Calabrese, Hugues Cuened, Sena Jurinae, Gwyn Griffiths, Glyndebourne Festival Orchestra and Chorus, conducted by Vittorio Gui—HIS MASTER'S VOICE, 7", (in-line only), 7 1/2 ips. write for price—SAT 1003/4

Quartet in G Major, K-387, Sorkin Symphonette, Also, Brahms, *Quartet in A Minor, Op. 51, No. 20*—WEBCOR, 7", 7 1/2 ips. \$12.00. 2923-4
Quartet in G Major, K. 387, Fine Arts Quartet—CONCERTAPES, 7", 7 1/2 ips. \$11.95. 23-4A
Serenade in G Major, Eine Kleine Nachtmusik, K. No. 525. See VIVALDI, WEBCOR, 2923-3.

Symphony No. 41, in C, K. 551, (Jupiter), Chicago Symphony Orchestra, Fritz Reiner, conductor—RCA VICTOR, 7", 7 1/2 ips. \$12.95. DCS-10 or DCSD-10

OFFENBACH, Jacques

Gaita Parisienne, Boston Pops Orchestra, Arthur Fiedler, conductor—RCA VICTOR, 7", 7 1/2 ips. \$14.95. ECS-15 or ECSD-15

PAGANINI, Niccolò

Mojo Paganini. See DELIBES, SONY STERECORD, D-2

PFITZNER, Hans Erich

Little Symphony, Opus 43. See DUKAS, AUDIOSPHERE (Livingston), 703BN.

PROKOFIEFF, Serge

Symphony No. 1 in D, Philharmonia Orchestra, conducted by Nicolai Malko—HIS MASTER'S VOICE, 7", (in-line only), 7 1/2 ips. write for price. SDT 1750

PUCCINI

La Boheme. Solists with Netherlands Philharmonic Orchestra and Chorus. Walter Goehr, conductor.—CONCERT HALL. 7", 7 1/2 ips. \$23.90.CHT/BN-2

RACHMANINOFF, Sergei

Rhapsody, Opus 13. On a Theme of Paganini. Francois D'ote soloist, assisted by String Ensemble de Paris.—BEL CANTO. 7", 7 1/2 ips. \$9.95.#2

RAFF

The Mill. See MENDELSSOHN, WEBCOR. 2922-3.

RAVEL, Maurice

Alborada Del Gracioso. See DEBUSSY, WEBCOR. 2923-1.

Bolero. See GERSHWIN, CONCERT HALL.CHT/BN-7

Habanera. See DVORAK, WEBCOR. 2923-2.

Musik of See GRANADOS, CONCERTAPES. 23-1B. Pictures at an Exhibition, played by the Netherlands Philharmonic Orchestra. Walter Goehr, conductor.—CONCERT HALL. 7", 7 1/2 ips. \$11.95.CHT/BN-3

ROSSINI, Gioacchino

Willoni Tell Overture. The Florence May Festival Series. Festival Orchestra. Vittorio Gull, conductor. Also, Braims, Academic Festival Overture, and Massenet, Under the Lindentree.—AUDIOSPHERE (Livingston). 7", 7 1/2 ips. \$11.95.705BN

SAINT-SAENS, Camille

Allegro Appassionato. See DVORAK, WEBCOR. 2923-2.

Capriccioso. See CHAUSSON, RCA VICTOR. (CS-16 or CSD-16).

SCHUBERT, Franz

Moment Musical. See MENDELSSOHN, WEBCOR. 2922-3.

Quartet in E Flat Major, Op. 125, No. 1. See HAYDN, WEBCOR. 2923-5.

Quartet in E Flat Major, Op. 125, No. 1. See HAYDN, CONCERTAPES. 23-1.

Symphony No. 8, in B Minor, ("Unfinished"). Boston Symphony Orchestra, Charles Munch, conductor.—RCA VICTOR. 7", 7 1/2 ips. \$10.95.(CS-13 or CSD-13)

Unfinished Symphony. The Florence May Festival Series. Festival Orchestra. Vittorio Gull, conductor. Also, Sibelius, Finlandia.—AUDIOSPHERE (Livingston). 7", 7 1/2 ips. \$11.95.701BN

SCHUMANN, Robert

Manfred Overture. See DEBUSSY, AUDIOSPHERE (Livingston). 704BN.

SIBELIUS, Jean

Finlandia. See SCHUBERT, AUDIOSPHERE (Livingston). 701BN.

Finlandia. See SIBELIUS, A-V TAPE LIBRARIES, AV-1508 (BN or HS).

Pohjola's Daughter. See SIBELIUS, A-V TAPE LIBRARIES, AV-1508 (BN or HS).

Song of My Heart. See SIBELIUS, A-V TAPE LIBRARIES, AV-1508 (BN or HS).

The Origin of Finland. Helsinki University Chorus. L. Saarits, haritone. Cincinnati Symphony Orchestra, Thor Johnson, conductor. Also, Sibelius, Song of My Heart; Sibelius, Finlandia; and Sibelius, Pohjola's Daughter.—A-V TAPE LIBRARIES. 7", 7 1/2 ips. \$10.95.(AV-1508 (BN or HS))

Walse Triptyk. See MOUSSORGSKY, AUDIOSPHERE (Livingston). 703BN.

SMETANA, Bedrich

Dance of the Comedians. See GRIEG, CONCERTAPES. 502.

The Moldau, played by the Fivrecht Symphony Orchestra, Paul Hippens, conductor. Also, Brahms, Polonizian, Panzerzug, "Prince Igor"—CONCERT HALL. 7", 7 1/2 ips. \$11.95.CHT/BN-10

STRAUSS, Johann, Jr.

Musik Of, Sinfonietta, L. Sorkin, cond. The best loved selections of Strauss.—CONCERTAPES. 7", 7 1/2 ips. \$11.95.101-A

STRAUSS, Richard

Also Sprach Zarathustra, Chicago Symphony Orchestra, Fritz Reiner, conductor.—RCA VICTOR. 7", 7 1/2 ips. \$14.95.ECS-1 or ECS-D-1

Death and Transfiguration, played by the Utrecht Symphony Orchestra, Ignace Neumark, conductor.—CONCERT HALL. 7", 7 1/2 ips. \$11.95.CHT/BN-12

Don Juan. See LIEBERMANN, RCA VICTOR, ECS-3 or ECS-D-3.

Ein Heldenleben, Chicago Symphony Orchestra, Fritz Reiner, conductor.—RCA VICTOR. 7", 7 1/2 ips. \$16.95.ECS-2 or ECS-D-2

Emperor Waltz. See DEJIBBS, SONY STERECORD, D-2.

Folka. See DELIBES, SONY STERECORD, D-2.

STRAVINSKY

L'Histoire du Soldat, Ars Nova, Mandell conductor.—SONOTAPE. 7", 7 1/2 ips. \$9.95.SWB 8003

The Firebird, played by the Netherlands Philharmonic Orchestra, Walter Goehr, conductor.—CONCERT HALL. 7", 7 1/2 ips. \$11.95.CHT/BN-1

TCHAIKOWSKY, Peter I.

Andante Cantabile from D Major Quartet. See MENDELSSOHN, WEBCOR. 2922-3.

Casse-Noisette ("Nutcracker") Suite, Philharmonia Orchestra, conducted by Nicolai Malko.—HIS MASTER'S VOICE. 7", (in-line only). 7 1/2 ips. write for price.SCS-1500

Concerto No. 1 in B Flat Major, Op. 23, Emil Gilels, pianist, Chicago Symphony Orchestra, Fritz Reiner, conductor.—RCA VICTOR. 7", 7 1/2 ips. \$14.95.ECS-8 or ECS-D-8

Quartet No. 1, Curtis Siring Quartet.—SONOTAPE. 7", 7 1/2 ips. \$9.95.SWB 8011

Serenade for Strings, Op. 48. See VIVALDI, WEBCOR. 2923-3.

Serenade. The Sorkin Symphonette.—CONCERTAPES. 7", 7 1/2 ips. \$11.95.23-3B

Symphony No. 6, in B Minor, Op. 74, ("Pathe-tique"), Boston Symphony Orchestra, Pierre Monteux, conductor.—RCA VICTOR. 7", 7 1/2 ips. \$18.95.GCS-5 or GCS-D-5

TURINA, Joaquin

Prayer of the Torador, See DITTERSDORF, Carl Von, WEBCOR. 2922-4.

Prayer of the Torador. See DITTERSDORF, CONCERTAPES. 22-4.

VIVALDI, Antonio

Concerto Grosso in D Major, Op. 3, No. 11. Sorkin Symphonette. Also, Mozart, Serenade in G Major, Eine Kleine Nachtmusik, K. No. 525; Bach, J. S., Prelude in E Major; Tschalkowsky, Serenade for Strings, Op. 48; and Bolzoni, Minuet.—WEBCOR. 7", 7 1/2 ips. \$12.00.2923-5

Concerto Grosso in D Major. The Sorkin Symphonette. Also, Mozart, Eine Kleine Nachtmusik. A well-balanced program of classical string music.—CONCERTAPES. 7", 7 1/2 ips. \$11.95.23-3A

WAGNER, Richard

Flying Dutchman Overture. See WAGNER, AUDIOSPHERE (Livingston). 702BN.

Tannhauser Overture. The Florence May Festival Series. Festival Orchestra. Vittorio Gull, conductor. Also, Wagner, Flying Dutchman Overture.—AUDIOSPHERE (Livingston). 7", 7 1/2 ips. \$11.95.702BN

WOLF, Hugo

Italian Serenade. See DITTERSDORF, Carl Von, WEBCOR. 2922-4.

Italian Serenade. See DITTERSDORF, CONCERTAPES. 22-4.

CLASSICAL-MISC.

ANTHEIL, Ballet Meconique, Los Angeles Contemporary Music Ensemble, Robert Kraft, cond.—OMEGATAPE (International Pacific Recording Corp.), 7", 7 1/2 ips. \$7.95.R-6009

A RICHARD PURVIS ORGAN RECITAL IN GRACE CATHEDRAL, Vol. 1, Arioso, Processional Supplication, Pavanne, and 3 other selections.—HIFITAPE. 7", 7 1/2 ips. (stacked only), \$12.95.R-703

A RICHARD PURVIS ORGAN RECITAL IN GRACE CATHEDRAL, Vol. II, March Grottesque, Sheep May Safely Graze, Piece Heroique, and 5 other selections.—HIFITAPE. 7", 7 1/2 ips. (stacked only), \$12.95.R-704

FAVORITE QUARTET MOVEMENTS, Fine Arts Quartet, Selected quartet movements.—CONCERTAPES. 7", 7 1/2 ips. \$11.95.22-3

FESTIVAL MUSIC FOR ORGAN, Karg-Elert, Muel- Büsser, and others, Robert Owen, Aeolian Skinner organ, Christ Church, Brookville, N.Y.—SONOTAPE. 7", available Nov. 30, 7 1/2 ips. \$9.95.SWB 8009

TOCCATAS FOR ORGAN, by Widor, Mulet, Vierne, Boellman, others, Robert Owen, Aeolian Skinner organ, Christ Church, Brookville.—SONOTAPE. 7", 7 1/2 ips. \$9.95.SWB 8004

VIOLIN AND CELLO RECITAL, Selections from the violin and cello solo literature, Leonard Sorkin, Violin, George Sorkin, cello, Alexander Joffe, accomp.—CONCERTAPES. 7", 7 1/2 ips. \$11.95.23-2B

VOICES FROM VIENNA, Vol. 1, The Music of Strauss, 136-Voice Young Vienna Choir with Orchestra, conducted by Leo Lehner.—AUDIOSPHERE (Livingston). 7", 7 1/2 ips. \$11.95.704BN

VOICES FROM VIENNA, Vol. 2, The Music of Lehner, Mozart, Beethoven, Strauss and Schubert, 136-Voice Young Vienna Choir with Orchestra, conducted by Leo Lehner.—AUDIOSPHERE (Livingston). 7", 7 1/2 ips. \$11.95.707BN

SEMI-CLASSICAL & MUSICALS

LEONARD SORKIN STRINGS, I'll Follow My Secret Heart (Concentration Piece), Zing Went the Strings (Thumb Up), Oh, What a Beautiful Morning (Oklahoma), and 7 other selections.—WEBCOR. 5", 7 1/2 ips. \$8.00.2922-6

FAVORITE SHOW TUNES NO. 1, Leonard Sorkin Strings, Hits from Oklahoma, Band Wagon and Wake Up and Dream.—CONCERTAPES. 7", 7 1/2 ips. \$11.95.22-2

FAVORITE SHOW TUNES NO. 2, Leonard Sorkin Strings, Best loved selections from show music.—CONCERTAPES. 7", 7 1/2 ips. \$11.95.22-6

LEONARD SORKIN STRINGS, Surrey With The Fringe on Top (Oklahoma), Someday I'll Find You (Private Lives), Dancing in the Dark (Band Wagon), and 6 other selections.—WEBCOR. 5", 7 1/2 ips. \$8.00.2922-2

MIGHTY WURLITZER PIPE ORGAN, Volume 2, Gordon K'bbee, Selections from "Oklahoma" and "South Pacific," 18 numbers.—OMEGATAPE (International Pacific Recording Corp.), 7", 7 1/2 ips. \$7.95.ST-7001

SHIGENORI OIHARA AND HIS BLUE COATS ORCHESTRA, Moonlight Sonata, Carmen, Villia, You Are My Heart's Delight, Roonie Woonie in Arabian Dance, and I Look At Heaven.—SONY STERECORD (Intersearch), 7", (in-line only), 7 1/2 ips. \$11.50.D-3

TRIBUTE TO VICTOR HERBERT, The Stockholm String Orchestra, under the direction of Hans Holber brings you the new sound of an old master, Victor Herbert, with such melodies as Indian Summer and Moonbeams.—BEL CANTO. 7", 7 1/2 ips. \$9.95.ST-5

WALTZTIME IN STEREO, a complete program of well known waltz favorites played by the Kingsway Strings, with Joseph Kuhn's arrangements of the Merry Widow and Candlelight waltzes.—BEL CANTO. 7", 7 1/2 ips. \$11.95.ST-6

POPULAR

BAND WITH A REAT, Harty Zimmerman, Sentimental Journey, On Wisconsin, Night Train, and 7 other selections.—HIFITAPE. 7", 7 1/2 ips. (stacked only), \$12.95.R-602

BARBARA CARROLL TRIO, highly listenable improvisation on popular and standard favorites.—LIVINGSTON. 7", 7 1/2 ips. \$11.95.T-1081BN

BILL THOMSON IN A MAGIC MOOD, Bill Thomson at Hammond organ, Captivating versions of Lotus Land, Harlem Nocturns, Autumn Leaves, Street Scene, Old Black Magic, Intermzzo, Slaughter on 10th Ave.—LIVINGSTON. 7", 7 1/2 ips. \$11.95.T-1090BN

BILL THOMSON PLAYS BERON KERN, Bill Thomson at Hammond organ, The immortal favorites of Kern in intimate stereo.—LIVINGTON. 7", 7 1/2 ips. \$11.95.T-1092BN

ELAN GOES STEREO.—CELESTIAL TAPES. 5", 7 1/2 ips. (stacked only), \$5.95.S-10

GEORGE WRIGHT'S SHOWTIME, There's No Business Like Show Business, My Funny Valentine, The Map I Love, and 4 other selections.—HIFITAPE. 7", 7 1/2 ips. (stacked only), \$12.95.R-708

GYPSY MUSIC, Lendway Kalman Gypsy Orchestra Gypsy Favorites.—INTERNATIONAL PACIFIC RECORDING CORP., 7", 7 1/2 ips. \$10.95.ST-2005

JOSH WHITE COMES A VISITIN', the great blues singer in a recording that beautifully conveys him at his warm, intimate best.—LIVINGSTON. 7", 7 1/2 ips. \$11.95.T-1083BN

LEIBERT TAKES A HOLIDAY ON THE MIGHTY WURLITZER ORGAN, Dick Leibert, organ of the Byrd Theatre, Richmond, Virginia.—SONOTAPE. 7", available Nov. 30, 7 1/2 ips. \$9.95.SWB 8012

LEIBERT TAKES RICHMOND, Dick Leibert, Mighty Wurlitzer Organ, Byrd Theatre, Richmond.—SONOTAPE. 7", 7 1/2 ips. \$9.95.SWB 8006

LENNY HERMAN and the Mightiest Little Band in the Kingdom, popular group at its anecdotal best.—LIVINGSTON. 7", 7 1/2 ips. \$11.95.T-1083BN

MEET BILL THOMSON, relaxing renditions on the Hammond of, Falling in Love With Love, Laura, and others.—LIVINGSTON. 7", 7 1/2 ips. \$11.95.T-1087BN

MORE GEORGE WRIGHT, You'll Never Walk Alone, Nice Work If You Can Get It, The Bullfighter, and 9 other selections.—HIFITAPE. 7", 7 1/2 ips. (stacked only), \$12.95.R-707

MUSIC IN MOTION, Vol. 1, Lenny Herman, Tea For Two, Rose of Washington Square, Lover Come Back to Me, In the Still of the Night, and 6 others.—LIVINGSTON. 7", 7 1/2 ips. \$11.95.T-1088BN

MUSIC IN MOTION, Vol. 2, Lenny Herman, Crazy Rhythm, Just One of Those Things, Manhattan, Pagan Love Song, and 6 others.—LIVINGSTON. 7", 7 1/2 ips. \$11.95.T-1089BN

MUSIC, WINE & CANDLELIGHT, Vol. 1, Just as romantic as its title promises, 16 performances by the Music of Vienna group.—AUDIOSPHERE (Livingston). 7", 7 1/2 ips. \$11.95.709BN

MUSIC, WINE & CANDLELIGHT, Vol. 2, by Austria's leading "Schranimel" group.—AUDIOSPHERE (Livingston). 7", 7 1/2 ips. \$11.95.710BN

ORGAN MUSIC BY ADRIE SCOTT, Tea for Two, The Band Played on, I've Told Every Little Star, Sweet Genevieve, and 4 other selections.—WEBCOR. 5", 7 1/2 ips. \$8.00.2922-7

PIPE ORGAN HIGH FIDELITY SHOWPIECES, Gordon K'bbee, Grandpa, My Heart Belongs to Daddy, Somewhere, Love, and 6 others.—OMEGATAPE (International Pacific Recording Corp.), 7", 7 1/2 ips. \$7.95.ST-7007

SOUND PROOF, Ferrante & Teicher, duo-pianos.—SONOTAPE. 7", available Nov. 30, 7 1/2 ips. \$9.95.SWB 8007

STAN SELTZER'S STEREO STEINWAY, Stan Seltzer, Manhattan, Love Come Back to Me, Slaughter on 10th Avenue.—STEREOTAPE (Audio Arts), Half reel, 7", 7 1/2 ips. \$7.95.ST-4

STAN SELTZER'S STEREO STEINWAY—as above but with four additional numbers, Full reel, 7", 7 1/2 ips. \$11.95.ST-4A

STEPPING OUT WITH HERR JEFFRIES, orchestra conducted by Richard Hazard, Night Song, Passing Straws, The Conqueror, The Heart of a Woman.—STEREOTAPE (Audio Arts), Half reel, 7", 7 1/2 ips. \$7.95.ST-6

THE BELLS OF ST. MARY'S.—CARILLON AND ORGAN MUSIC FOR INSPIRATION, Robert Lock-smith, Strouberg-Carlson Flemish Master Carillon, Robert Owen, organ of the First Baptist Church in Rochester, New York.—SONOTAPE. 7", available Nov. 30, 7 1/2 ips. \$9.95.SWB 8011

THE HILLOPS IN HILLOPS, in Hil-lops, and Frank Constock's orchestra, Surrey with the Fringe on Top, Long Ago and Far Away, Chinatown, My Chinatown and 5 others.—OMEGATAPE (International Pacific Recording Corp.), 7", 7 1/2 ips. \$7.95.ST-7006

THIS IS IT, Warren Baker's Dozen, September, Song, There is a Love in a While and 4 others.—OMEGATAPE (International Pacific Recording Corp.), 7", 7 1/2 ips. \$7.95.ST-7010

TUNES OF YESTERDAY & TOMORROW.—CELESTIAL TAPES. 5", 7 1/2 ips. (stacked only), \$5.95.S-20

POPULAR-LATIN

HILL THOMSON GOES LATIN, Bill Thomson at Hammond organ, Outstanding Latin melodies of several decades including: Brazil, Poinciana, Carioca, Orchids in the Moonlight, and 4 other favorites.—LIVINGSTON. 7", 7 1/2 ips. \$11.95.T-1091BN

LATIN AMERICAN ADVENTURE, Ferrante & Teicher, duo-pianos.—SONOTAPE. 7", 7 1/2 ips. \$9.95.SWB 8005

MARINER CLASSICS IN THIRD DIMENSION.—CELESTIAL TAPES. 5", 7 1/2 ips. (stacked only), \$5.95.S-30

TEMPO NIEVO, varied selections in the Latin mood.—CONCERTAPES. 5", 7 1/2 ips. \$7.95.S-03

JAZZ

DOWN THE MIDDLE, with Jimmie McPartland & Orchestra.—CONCERT HALL. 7", 7 1/2 ips. \$11.95.CHT/BN-11

ERSKINE BUTTERFIELD, Just for Kicks, Retired high fidelity jam session at its best.—LIVINGSTON. 7", 7 1/2 ips. \$11.95.T-1062BN

JAZZ HYPSTERO, Jack Millman Quintet, Darn That Dream, Woodyum Hue, Still's It.—STEREOTAPE (Audio Arts), Half reel, 7", 7 1/2 ips. \$7.95.ST-5

JIMMY DRUMS SINGS, THE BLUEBELLS, with Jo Jones, drums, Walter Page, bass, Buddy Tate, tenor sax, Sam Price, piano, Pat Jenkins, trumpet, Henderson Chambers, trombone, and Ben Richardson, alto sax & clarinet, Goin' to Chicago, I Want a Little Girl, Leave Me, How Long, Sent for You Yesterday, Boogie Woogie, How You Want Your Lovin' Done.—A-V TAPE LIBRARIES (AV-Vanguard), 7", 7 1/2 ips. \$10.95.AV-701 (BN or HS)

PAUL BARBARIN AND HIS NEW ORLEANS JAZZ, playing Bourbon Street Parade, Sister Kate, Oh La Bas, Second Line, and others.—ATLANTIC (Livingston). 7", 7 1/2 ips. \$11.95.AT-7-R1BN

RAMPART STREET RAMBLERS, with Wilbur De Paris leading a great New Orleans aggregation. Sensationally hi-fi recordings of New Orleans tunes.—ATLANTIC (Livingston). 7", 7 1/2 ips. \$11.95.AT-7-S1BN

RED UNION JAZZ BAND, Vol. 1, representative rampages of another all-star group, this time from the East Coast.—EMPIRICAL (Livingston). 7", 7 1/2 ips. \$11.95.EM-7-R1BN

RUSTY DEDRICK, TRUMPET, WITH RHYTHM AND WIND, a progressive jazz session, including: Gloom, Sunday Rusty in Orchestraville, Zing Went the Strings of My Heart, Cry of the Bat, and others.—ESOTERIC (Livingston). 7", 7 1/2 ips. \$11.95.ES-7-6BN

VIC DICKENSON SEPTET, with Ruby Braff, Guest Star and Vic Dickenson, trombone, Edmond Hall, clarinet, Steve Jordan, guitar, Sir Charles Thompson, piano, Walter Page, bass, Jo Jones, drums, Shad Collins & Ruby Braff, trumpet. *Old Fashioned Love, Running Wild, Everybody Loves My Baby, When You and I Were Young Maggie*—A-V TAPE LIBRARIES (AV-Vanguard), 7", 7½ ips, \$10.95
 WILBUR DE PARIS & HIS NEW Orleans Jazz, in a second album to satisfy the insistent demand of so many owners of their first release. Includes: *Mardi Gras Rag, Are You From Dixief, Yava-Yava, March of the Charcoal Grey, Parava*, and others—ATLANTIC (Livingston), 7", 7½ ips, \$11.95

NOW HEAR THIS!

Stereophonic Sound

WITH NEW **Bell** 3-SPEED TAPE RECORDER

AND ... YOU NEED NOTHING ELSE EXCEPT YOUR RADIO, TV OR AMPLIFIER

Bell, famous name in Hi-Fidelity, offers plenty that's new and STEREO too, in this inexpensive, easy-to-operate Tape Recorder.



Model BT-76

- TRUE FIDELITY
... 30-12,000 cycles
- THREE SPEEDS
... 7½, 3¾, 1½ ips
- DUAL TRACK RECORDING
... Monaural only
- PLUS STEREO PLAYBACK
... staggered (offset) heads
- RECORDED STEREO TAPE
... with each recorder
- ALL FOR ONLY \$189.95
... slightly more in West

Bell's new BT-76 Tape Recorder is masterfully engineered, ruggedly built and handsomely cased, with outstanding features usually found only on expensive professional equipment. As a recorder, or when used for either Monaural or Stereophonic playback, it is a magnificent instrument. Its staggered (offset) heads feed

equalized, pre-amplified signals from Head #1 into Recorder Amplifier, from Head #2 into any Radio, TV, or other amplifier system equipped with phono input (connecting cable furnished), guaranteeing true Stereophonic Sound. Now being demonstrated at leading Department Stores and Hi-Fidelity Dealers. Now hear it now!

OTHER BELL TAPE RECORDERS AS LOW AS \$139.95

MODEL BTK-1—Conversion Kit—To add Stereophonic Playback to any RT-75 when desired. Includes second head, pre-amp, hardware, simple instructions, **\$16.95**

MODEL RT-75—Tape Recorder—Same as BT-76, above, identical appearance and operation but without Stereophonic playback **\$174.95**

MODEL RT-88—Tape Recorder—Two speeds. Piano-Key controls, three separate motors, True Fidelity, Dual Track Recording, Lightweight **\$139.95**

Prices shown subject to change; are slightly higher West of the Rockies.

BELL SOUND SYSTEMS, Inc.
 A SUBSIDIARY OF THOMPSON PRODUCTS, INC.

557 MARION ROAD COLUMBUS 7, OHIO

Bell Tape Recorders are sold by leading Department Stores and High Fidelity Sound Dealers everywhere. Write ... we'll send you complete literature and your nearest dealers' name.



SEASONAL

CHRISTMAS AT RADIO CITY, Dick Leibert, organist—SONOTAPE, 7", available Nov. 30, 7½ ips, \$9.95
 CHRISTMAS CAROLS, Carlo Costello Male Chorus, *Stille Nacht (Silent Night), O du Fröhliche (Christmas Hymn), The First Noel*, and four other selections—SONY STEREOCOR (Interscarch), 7" (in line only), 7½ ips, \$6.95
 MERRY CHRISTMAS CAROLS, *O Holy Night, It Came Upon a Midnight Clear, O Come All Ye Faithful, Silent Night*, and 18 other selections—BELL CANTO, 7", 7½ ips, \$11.95

FOLK AND ETHNIC

MEMORIES OF FRANCE, a wonderful musical tour of France with such favorites as *Under Paris Skies, Can Can, and Fanny Jacque* by the Paris Theater Orchestra—BELL CANTO, 7", 7½ ips, \$9.95
 MEMORIES OF SPAIN AND ITALY, a musical travelogue through Spain and Italy featuring "La Virgen de la Marecena" by the Symphonetta de Madrid—BELL CANTO, 7", 7½ ips, \$9.95
 POLKA PARTY IN STEREO, Itazberry Reynolds and the All Star Polka Band brings you a complete polka program of the *Holena Polka, At The Mill, Two Birchbuds*, and the *Top For Polka*, recorded at the Capitol Tower in Hollywood—BELL CANTO, 7", 7½ ips, \$7.95

RELIGIOUS

PROTESTANT HYMNS AND ANTHEMS, Sung by The Radio Choir of Trinity Church in New York City, George Meade—Mus D., Director, Robert Arnold—organist, *Will Lift Up Mine Eyes to the Hills, Glorious Radiance, Your Voices Raised, Rise Up O Men Of God*, and 7 other selections—A-V TAPE LIBRARIES, 7", 7½ ips, \$10.95

NOVELTY

SOUND IN THE ROUND, Volume 1, recording of everyday sounds—CONCERTAPES, 5", 7½ ips, \$7.95
 SOUND IN THE ROUND, Volume 2, realistic everyday sounds—CONCERTAPES, 5", 7½ ips, \$7.95
 SOUNDS OF THE SUBWAY—SONOTAPE, 7", available Nov. 30, 7½ ips, \$9.95

CHORAL

CHORAL SELECTIONS, *Synod, Battle of Jericho, There's a Church in the Valley*, and three other selections—SONY STEREOCOR (Interscarch), 7" (in line only), 7½ ips, \$5.95
 CARLO COSTELLO MALE CHORUS, *Loch Lomond, Blauer Montag (Blue Monday), Volga Boatman Song*, and two other selections—SONY STEREOCOR (Interscarch), 7" (in line only), \$5.95
 HELSINKI UNIVERSITY CHORUS, *Finland, My Homeland (Vrt, Turunen), To Song (Kilpainen), Rappiowa Water (Sauninen), Hide & Seek (Turund)*, and 7 other selections, Rafael Sora and Veikko Tyrväinen, soloists, Martti Turunen, conductor—A-V TAPE LIBRARIES, 7", 7½ ips, \$10.95
 JOHN HALLORAN CHOR, *All Through The Night, A Prayer For Our Country, Clouds In The Sky Of The Night*, and 4 other selections—WELCOR, 5", 7½ ips, \$8.00
 JOHN HALLORAN CHOR, *Nor Let Every Tongue Adore Thee, Little Boy Blue, Cindy, Alleluia, Skip To My Lou, Lords Prayer*, and 4 other selections—WELCOR, 5", 7½ ips, \$8.00
 JOHN HALLORAN CHOR, Selections from Bach to modern folk songs and spirituals—CONCERTAPES, 7", 7½ ips, \$11.95
 JOHN HALLORAN CHOR, Songs of America, Stephen Foster—CONCERTAPES, 7", 7½ ips, \$11.95

DEMONSTRATION

DEMONSTRATION TAPE—STEREOTAPE (Audio Arts), Quarter Reel, 7", 7½ ips, \$4.95
 STEREO DEMONSTRATION TAPE excerpts from 8 Bell Canto stereo releases—BELL CANTO, 7½ ips, \$4.95
 THE FAMOUS WESTMINSTER SONOTAPE 1956 AUDIO SHOW DEMONSTRATION TAPE, Lloyd Moss, Narrator—SONOTAPE, 7", available Nov. 30, 7½ ips, \$8.95
 OUR INTRODUCTION TO STEREO, demonstration tape—STEREO TAPE ASSOCIATES (EMC Recordings), 7", 7½ ips, (stacked only), \$6.95

MISCELLANEOUS

BARROUSEL BAND ORGAN, complete with reeds, glockenspiel, bass drum, castanets, snare drum, triangle and cymbals; *Loan Sam, Homesick, Toot Toot Coo-oo*, and others—BELL CANTO, 7", 7½ ips, \$9.95
 DIVERTISSEMENT, piano by Elmer Bernstein, backed by flute, harp and cello. Film score for "The House"—STEREOTAPE (Audio Arts), Half reel, 7", 7½ ips, \$7.95



with the
Model MTI-M

PRESTOSEAL SPLICER

Now available for any type 1/4" tape, mylar, acetate or paper tape, spliced to each other or themselves. Also splices type leader stock to any type magnetic tape without adhesives. Endless loop splicing no problem.

- A heat weld
- No cement
- No adhesives
- ... in seconds!



\$67
C.O.D.

- Diagonal cut capable of withstanding 3 pound pull
- Inaudible with playback amplifier gain at maximum

Ask for FREE Sample Splice & Brochure

PRESTOSEAL MFG. CORP.
3727 33rd St., Long Island City 1, N.Y.

for every application...

ATLAS MIKE STANDS
most complete—
most diversified
line in the world!

From a professional boom stand to a flexible goose neck to a tiny fitting—whatever your need in mike stands and accessories—depend on it, ATLAS has it for you. Designed and manufactured for highest stability, quiet, ease of operation, durability. And backed up 100% by ATLAS—world leader in mike stands, public address loudspeakers and accessories for 21 years. Compare them all at your distributor—You'll make your next mike stand on ATLAS.

ATLAS SOUND CORP.
1448 39th Street, Brooklyn 18, New York
In Canada: Atlas Radio Corp., Ltd., Toronto, Ont.

NEW PRODUCTS

BELL & HOWELL PORTABLE



A new portable version of the Bell & Howell Miracle 2000 tape recorder, known as Model 300-L, has been announced by the manufacturer. This model contains two 8" "woofers," one on each side, and two electrostatic "tweeters" in front. Each electrostatic speaker contains a thousand small apertures which act as miniature loud speakers. The new unit has three separate motors to drive the capstan, feed and take-up mechanism. It features "drop in" threading, dual speed operation and a program indicator which quickly locates each recording on a tape. The recorder is built in to a portable fawn and brown scuff-proof spatter finished carrying case, and is priced at \$299.95. For additional information, contact Bell & Howell Company, 7100 McCormick Rd., Chicago 45, Illinois.

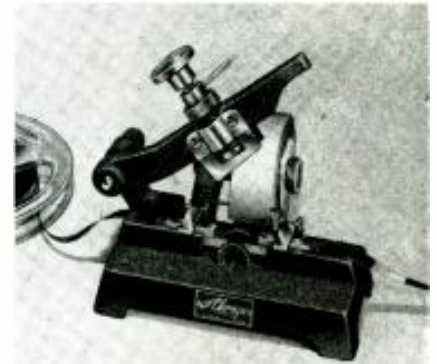
STEREO HEAD



A new in-line magnetic head adaptable for stereophonic sound applications has been announced by The Nortronic Company, 1015 S Sixth Street, Minneapolis 4, Minn. It is model TLD, and, according to the manufacturer, it will provide long wear, negligible oxide accumulation, excellent rejection of surrounding fields, and uniformity of frequency and amplitude response. The head can be compensated for flat response between 30 and 10,000 cps at 7 1/2 ips; and it features precision ground and lapped gap, balanced electric and magnetic structure, high output, and precise colinear alignment. Active tape surfaces do not pass over any epoxy resin or plastic surfaces, thereby eliminating the need for frequent cleaning. This head is suitable for use in

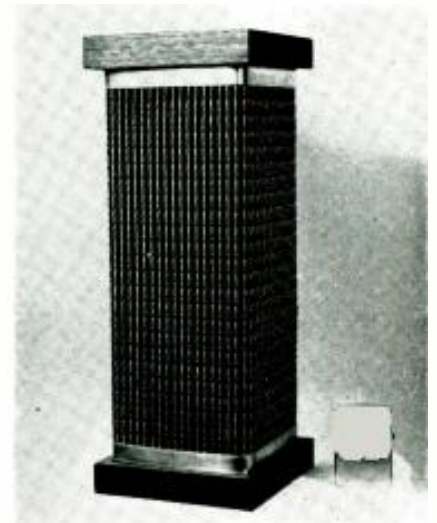
new equipment design, replacement, and for conversion. Detailed dimensional drawings, specifications, and prices furnished upon request.

ALONGE SPLICER



Alonge Products, Inc., 163 West 25rd Street, New York 11, N. Y. is marketing a new non-magnetic recording tape splicer. The central feature of this instrument is a cutting arm with 3 knives, of which the center knife is directional and can be pivoted and set to cut recording tape at a perfect 90, 67 1/2 or 45 degrees. Two non-magnetic pressure pads hold the recording tape firmly in place while the other two knives cut the splicing tape to the correct width. Two float springs provide static neutralization. This splicer is priced at \$29.95. For additional details, write to the manufacturer.

ELECTROSTATIC SPEAKER



Pampa Electronics Sales Corp., 7354 Frankford Avenue, Philadelphia 36, Pa., is marketing its Model 5-20 electrostatic tweeter speaker. Such features as built in crossover network, frequency range of 5000 cycles to beyond 20,000, excellent transient response, and full 360 degree horizontal omni-directional sound pattern distribution are included. Plug in combination with

**ALL NEW
BIGGER THAN EVER!**



FREE

**NEWARK'S
Complete
HIGH FIDELITY
Catalog No. 65**

Everything in High Fidelity,
Industrial Electronics,
Radio, TV and Amateur
Equipment

Write
today

NEWARK
ELECTRIC COMPANY

Mail Order Division . . . Dept. F-12
223 W. Madison St., Chicago 6, Illinois

4736 W. Century Blvd., Inglewood, Calif.

TAPE RECORDERS AND ACCESSORIES

Buy your first recorder or your next recorder from a specialist in recording for over 8 years. Pay no more, and take advantage of our experience.

Ask for a quotation on trading your recorder toward a professional or semi-professional machine.

Distributors for:

**AMPEX,
BERLANT-CONCERTONE,
CROWN, DeJUR, PRESTO,
and others**

BOYNTON STUDIO,

10 Pennsylvania Ave.
TUCKAHOE, N. Y.

SPencer 9-5278

your present speaker system is provided by the tweeter design, and it is housed in a hand rubbed cabinet finished in mahogany (5-20M) or blonde (5-20B). Dimensions are 4½" wide by 4½" deep by 12" high over-all. This speaker is priced at \$29.50. Contact manufacturer for details.

JAPANESE MIKE



Especially designed for tape recording, this new moving coil microphone, Model TM-7, is manufactured in Japan and imported, guaranteed and serviced by Intersearch, 7 Arcadia, Cincinnati, Ohio. It is available in high or low impedance models, has a frequency range of 50 to 12,000 cycles, and an output level of -65 db. Finished in black and chrome, it also has an off-on slide switch. The price is \$15.

Intersearch has also introduced the new Sony tape heads, which are manufactured in Japan by Tokyo Tsushin Kogyo, Ltd. Among these are the 3 channel, ¼ inch stereophonic in-line heads. Crosstalk between the 3 channel tracks is rated by the manufacturer at -50 db. Also offered are the Sony 2 channel, stacked stereophonic heads. For complete information regarding these items, contact Intersearch.

CONVERTED TANDBERG



Tandberg tape recorders converted from 17/8 and 3¾ ips to 15/16 and 17/8 ips speeds are available from Fidelity Sound Company, 1429 L Street, N.W., Washington, D. C. This allows 16 hours of recording and play-back time on one 7" reel of half mil tape. At 15/16 ips the response is from 50 to 3,000 cycles, plus or minus 2.5 db, with a signal to noise ratio of at least -47 db. Except for the converted speeds and equalization changes, the units are identical to the Tandberg 2 and 2F models. The price of the unit is the same as the standard Tandberg models, plus \$35.00 conversion fee. Additional information available from Fidelity Sound.

**Now! New RCA Victor
superstrength, extra-long
play Hi-Fi "Mylar"* tape!**



Plays 50% longer! Not 1200 feet, but 1800 feet on a 7" reel! Extra-thin—superstrong! Costs \$7.50 per 7-inch reel. Also available: new RCA Victor acetate tape with full frequency performance—at a special low price! And RCA Victor acetate tape with full High Fidelity response. The same tape used for professional recordings—\$3.50 for 7-inch reel.

*"Mylar" is a registered Dupont trademark for its polyester film. Nationally advertised list prices shown, subject to change.

RCA VICTOR
RADIO CORPORATION OF AMERICA
CAMDEN 8, NEW JERSEY

**Keep your Recording Tape
From Time-Wasting
Spilling with**

*New Magic Clip for
Any Size Reel!*



Whether you're a professional or record at home, you know how often tape spills out from a reel you're ready to use. That wasted time may mean missing the very crux of what you want to record.

Magi-Clip,® an ingenious brass, non-magnetic clip, holds tape securely on the reel till ready for use. It snaps over flange of any size reel, holds even a partial reel. Lasts indefinitely. Ideal for mailing or storing!

INTRODUCTORY OFFER!

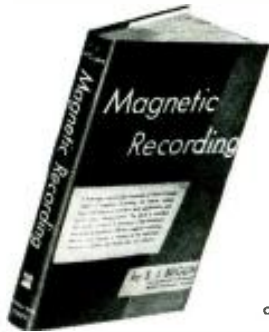
20 for \$2.00 (postage paid). Magi-Clip is not sold in stores. Send cash, check or money order to:

NIBLACK THORNE COMPANY

DEPT. M.F.

Box 86, Scottsdale, Arizona

OW!...a lete guide to ire & Tape ecording



for
HIGH-FIDELITY RESULTS

A fascinating hobby...
a profitable business!

MAGNETIC RECORDING

By S. J. Begun
242 pages, 130 illustrations. Price \$5.00

for
Home Entertainment
Movies
Broadcasting
Amateur Radio
Secret Communications
Speech Scrambling
Professional Recording
Transcriptions
Telegraphy and Telephony
Automatic Announcing
Magnetic "Memories"
Recording Transients
Chronoscopes

... and many other uses that make this one of the fastest-growing phases of the electronic industry.

Here's your "Open Sesame!" to a fast-growing branch of electronics in which far too few have specialized to date! Whether recording is your hobby or your business, this book will pave your way to better results, new techniques and effects.

From simple wire or tape recorders for home entertainment to complicated equipment and processes used in secret services, movies, industry and elsewhere, **MAGNETIC RECORDING** brings you complete, how-to-do-it data. From basic circuits to components; from commercial and home built equipment to its operating and service problems, you get the latest information and expert guidance. And, chances are, you'll be amazed at the opportunities for recording specialists in this steadily expanding field.

Starting with the fundamentals of magnetism and acoustics you progress rapidly to the advanced phases of the art. Biasing methods, distortion, reproducing heads, erasing, artificial regeneration (echoes), amplification, instrumentation and measurements and helpful analyses of modern commercial recording equipment, are but a few of the subjects covered. Dozens of schematics, block diagrams, cross-sections and under-classed photos make things easy to understand and are invaluable guides in selecting new equipment or building your own.

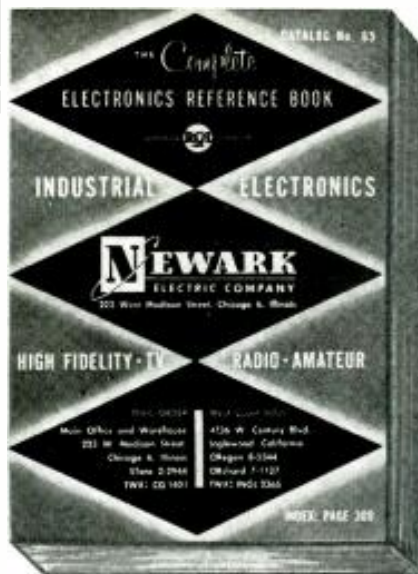
READ IT 10 DAYS... at our risk!

Dept. MF-116, RINEHART & CO., Inc.
232 Madison Ave., New York 16, N. Y.
Send **MAGNETIC RECORDING** for 10-day FREE EXAMINATION. If book is O.K., I will then promptly remit \$5.00 (plus postage) in full payment. If not, I will return it postpaid and owe nothing. (SAVE!) Send \$5.00 cash with order and we pay postage. Same 10-day money-back guarantee.)

Name
Address
City, Zone, State

Price outside U.S.A. \$5.50—cash only.
Money back in 10 days if you return book

NEWARK CATALOG



Newark Electric Company has released its new catalog, No. 65, a complete electronics reference book. This 304 page catalog describes and illustrates everything you need in high fidelity; tuners, amplifiers, speakers, cabinets and all accessories. Electronic engineers, amateurs, servicemen, and the radio-TV-electronic hobbyist will find a most complete selection. Write to Newark Electric Company, Dept. FA-12, 223 W. Madison St., Chicago 6, Illinois, for your free copy today.

McINTOSH C-4

McIntosh Laboratory, Inc., 320 Water Street, Binghamton, N. Y., is marketing the C-4 equalizer-preamplifier. It features eleven positions for base and treble equalization. There are separate bass and treble accentuate and attenuate controls, five input channel selectors for tape, tuner, mike, and two phonograph cartridges, and a master on-off switch, with volume control. For price and details, contact manufacturer.

BOOK REVIEW

How to Announce for Radio and Television. Edited by William I. Kaufman. 5 1/2"x8 1/2". 95 pages. Published by Hastings House, 41 E. 50th Street, New York, N. Y. Cloth bound, \$2.50.

This is a comparatively small book but it packs a lot of solid advice from the top pros including André Baruch, Bill Cullen, John Reed King, Ed Herlihy, Bud Collyer, Carl King, Richard Stark, Cy Harrice, Bob Stanton, Joel Chaseman, Johnny Olsen and Norman Brokenshire. Each has contributed a chapter to this volume and the picture they paint is accurate and down to earth. Anyone contemplating radio or TV announcing as a career would do well to read this volume... it should speed their way and, at the very least, warn of the traps and pitfalls that lie along the way.

Private Instruction in Spanish or English by Teletape.

At a very small cost our modern methods of instruction will enable you to master a new language. Write today for full information on our pay-as-you-learn plan. Send \$1.00 for sample 3 inch reel recorded at 3 3/4 ips-dual track.

HAVANA RICHMOND SCHOOL OF LANGUAGES
write to
Santa Clara 16, Havana, Cuba
2504 3 Ave., Richmond, Va.

Unusual Values In RECORDED TAPES

CLUB PLAN

NO MEMBERSHIP FEE REQUIRED
RECORDERS AND ACCESSORIES

write for free catalog

EFSCO SALES CO.
Tape Distributors
270 Concord Ave. West Hempstead, N. Y.

Have Fun
with Your
Tape Recorder!

USE
'MAJOR' PRODUCTION AIDS, APPLAUSE RECORDS, FANFARES AND MANY MORE...
MAKE YOUR HOME A PROFESSIONAL BROADCASTING STUDIO!

Record your own dramatic productions at home... Bring up the theme... fade in the mood music for the opening scene. Turn on the rain... bring up the thunder and lightning.

Crowd noises, animal sounds, train whistles... all at your fingertips with "Major" Production aids. Your friends will enjoy your broadcasting party when they hear how they sound "ON THE AIR!"

THOMAS J. VALENTINO, Inc.
Dept. TR
150 West 40th Street,
New York 36, N. Y.

Please send me and find enclosed 10¢ for postage (Check Boxes)
 Major Sound Effects Catalogue plus Tids On Turntables
 Mood Music Catalogue

Name
Address
City Zone State

TAPE CLUB NEWS



Emerging from the door of the church are Alan Wilson and Daphne Halfhide, both of whom met through World Tape Pals, of which they are members.

With our constant wonder over the versatility of magnetic tape recording, it comes as no surprise to hear that this medium has wrought wedding bells for two members of World Tape Pals. The happy couple are Alan Wilson, 31, who formerly resided in Singapore, Malaya, as a representative of Lever Bros. Co., and Daphne Halfhide, 27, secretary, of Paignton, Devon, England.

Daphne and Alan were introduced to each other through World Tape Pals, and after a year of tapesponding between Malaya and England, the "pals" became "sweethearts." When Alan returned to England about four months ago, he met Daphne in person, with the resultant wedding September 22nd.

The wedding, of course, was to be tape recorded and, said Daphne, "A tape recorder will be the motif on our wedding cake."

We all join the members of World Tape Pals in extending congratulations and best wishes to the blissful "tapemates."

The Voicespondence Club has a Special Fund, made up of contributions by members, expressly for the purpose of making club participation available to those who otherwise would find dues and supplies too costly. As a non-profit organization, the club is required to charge all American members annual dues, and the Special Fund pays for the dues of those who find it difficult to do so. Recording supplies are also furnished from this fund to such people. The club hopes to some day be able to furnish recorders to worthy persons. At the closing of the club's fiscal year on April 15, the Special Fund had paid the dues of 3 persons and furnished a special tape to another. One member donated a recorder which was turned over to an interested hobbyist who could not afford his own machine. The club welcomes all contributions to this fund.

(Continued on page 50)



Travel the complete
Sound spectrum
with **TANDBERG . . .**
the world's finest
tape recorder!

- 3 SPEEDS 1 7/8, 3 3/4, 7 1/2 I.P.S.
- STYLED TO FIT ANY DECOR
- BALANCED PLAYBACK, AMPLIFIER AND SPEAKER
- ABSOLUTELY NO WOW OR FLUTTER AT ANY SPEED

You too can experience the wonder of complete sound dimension with the world famous Tandberg recorder. Off the air recordings made . . . just fooling around at home, are truly mirrored by the wonder of electronic faithfulness, built right into this amazing tape recorder.

The versatile 3 speed Tandberg will more than pay for itself in tape savings as you discover the superior performance of this recorder at its lower speeds.

ASK YOUR DEALER FOR A DEMONSTRATION • WRITE FOR FULL INFORMATION TO:

TANDBERG 10 East 52nd Street, New York 22, N. Y. • PLaza 9-7190

SPECIAL ANNIVERSARY BARGAIN

This month Hi-Fi TAPE RECORDING is celebrating an anniversary—the start of our fourth year of publication. We want you to celebrate with us, and here's what we have in mind.

First of all, a free Tape Catalog worth 50c with each new or renewal subscription.

Second, a year's back issues (all of Volume 3) for just \$1.00 extra with a regular 1 year subscription or the same back issues FREE (all of Volume 3) with a two years' subscription.

Limited quantity use coupon today.

HI-FI TAPE RECORDING

Severna Park, Md.

- Enter my subscription for one year and send free tape catalog. I enclose \$3.75.
- Enter my subscription for one year and send all back issues of Vol. 3 plus free tape catalog. I enclose \$4.75.
- Enter my subscription for two years and send all back issues of Vol. 3 and tape catalog free. I enclose \$7.00.

Name

Address

City Zone State

...has the **BEST BUY**
WTP TAPE RECORDER!



only
\$89.95

**THE KNIGHT
PUSH-BUTTON
AUTOMATIC TAPE RECORDER**

Named "Best Buy" among recording ex-
cits. Features Push-Button keyboard for
instant recording with remarkably faithful
production. Has 2-speed dual-track re-
cording mechanism and efficient erase sys-
tem. Records up to 2 hours on standard tape
(3 hours on long play). For instant playback,
just push a button; also push-button con-
trol of forward, reverse and stop functions.
Records from mike, radio or phono. Built-in
quality amplifier and speaker. Simple to
operate. Compact—only 23 lbs. With micro-
phone, 600-ft. reel of tape and take-up reel.
96 RZ 675. Only **\$89.95**

FREE

356-PAGE 1957

ALLIED CATALOG



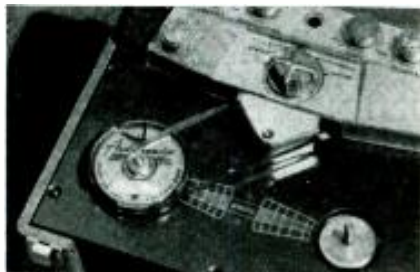
Buying guide to everything in
electronics, including all
equipment for the tape record-
ist: complete recorders, basic
mechanisms, amplifiers,
mixers, microphones, head
demagnetizers, telephone
pickups, recording tape,
splicers, leader and timing tape, identification
labels and accessories. Write for your Free copy.

splicers, leader and timing tape, identification
labels and accessories. Write for your Free copy.

ALLIED RADIO

100 N. Western Ave., Dept. 83-M-6 Chicago 80, Ill.

**CONVERT YOUR TAPE RECORDER INTO
A CONTINUOUS MESSAGE REPEATER**



AUDIO VENDOR

MODEL U-300-C or U-300-CC
Loaded with 180 ft. Cousino
Friction-Free Tape
\$12.50 Postpaid

Satisfaction Guaranteed

The AUDIO VENDOR will convert your
tape recorder into a continuously re-
peating mechanism. Successfully used
to teach, sell, announce, dictate and
for sleep learning. Plays from 5 to 10
minutes. Double time with a MOBIUS
LOOP. No rewinding necessary. Re-
peats message or music continuously
hour after hour. Send for literature on
our longer playing models and acces-
sories. Advise make and model of your
recorder.

If not available at your Dealer,
order from

COUSINO, INC. Dept. TR
2107 Ashland Ave., Toledo 2, Ohio

(Continued from page 49)

Through the efforts of World Tape Pal,
Max Nicholls, South African representative,
several new members have been added to
the club. An article on Max's tape exchange
activities, and his use of WTP to make
friends throughout the world was published
in a magazine, which also carried a picture
of his well-equipped recording studio.

H. C. Madigan, P.O. Box 255A, Hawera,
Taranaki, New Zealand, has informed us
of his intention to organize the New Zea-
land Tape Recording Club. He is most in-
terested in hearing from any tape recorder
enthusiasts who wish to join him in this
venture. Mr. Madigan feels the club will
serve a definite need in furthering friend-
ship and swapping or loaning reels of tape.
Interested parties may contact Mr. Madigan
at the above address for full particulars.

Overseas Branch President of the Austra-
lian Tape Recordists Association, William
M. Crosdale, possesses two 10" LP records
of dramatized children's stories taken from
Australian aboriginal folk legends, which
he offers to tape for anyone interested. Bill
also has a story narration of the Australian
Kookaburra, with various forms of this
amusing bird's laugh. The Kookaburra
bird has a laugh somewhat like that of a
Jackass. Also among his collection are com-
plete recordings of the "Corroboree" Baller
Suite (Peter Antill), which contain actual
primitive aboriginal musical instrument
sounds in the score. Mr. Crosdale has of-
fered to copy any of these recordings on tape
for collectors of the unusual. His address is
10 Foster St., Cessnock, N.S.W.

A new tape club, dubbed The American
Tape Exchange, is being organized and at
present has 12 members. There are no dues
and anyone wishing to join can send a 3,
4 or 5" reel, recorded at 3 3/4 ips to the
club's co-ordinator, Dick Conklin, 6 Ricky
Blvd., Albany 3, N. Y.

JOIN A CLUB

TAPE RESPONDENTS INTERNATIONAL
Jim Greene, Secretary
P. O. Box 125, Dept. T., Little Rock, Ark.

THE VOICESPONDENCE CLUB
Charles Owen, Secretary
Noel, Virginia

WORLD TAPE PALS
Harry Matthews, Secretary
P. O. Box 9211, Dallas, Texas

INTERNATIONAL TAPE WORMS
Art Rubin, National Chairman
P. O. Box 215, Cedarhurst, L. I., N. Y.

**AUSTRALIAN TAPE RECORDISTS
ASSOC.**
Jack A. Ferry, Federal President
Springbank Rd., Clapham, S. Australia

UNITED RECORDING CLUB
Richard L. Marshall, President
2516 S. Austin Boulevard
Chicago 50, Ill.

THE NATIONAL TAPESPINNERS
Carl Lotz, Secretary
Box 148, Paoli, Pa.



**Magnetic
Tape Splicer**
Satisfaction Guaranteed
Complete with new pre-cut
MStar tape tabs.
**ONLY
\$1.50 Postpaid**
If your dealer can't supply
301—
Order direct from Cousino,
Inc. 2107 Ashland Ave.
Toledo 2, Ohio, Dept. T. R.
Dealer and Distributor
Inquiries Invited.

TEST TAPE EXCLUSIVE

Encore Treasure Tape (Excepts from Dubbinks D 110
Test Tape) 4" reel, 59c ea. 3 for \$1.50 (plus postage)
BLANK RECORDING TAPE 3" REELS
Ideal for tape letters, Pop tunes etc. Encore Brand.
3 reels for \$1.00 (plus postage)
Qts. limited. Send for free catalog of interesting new
products.
AMERTEST PRODUCTS CORP. Dept. TR
1280 B Sheridan Avenue New York 56, N. Y.

TAPE RECORDERS

Tapes—Accessories
Nationally Advertised Brands
UNUSUAL VALUES
Send for Free Catalog

DRESSNER
69-02 AA; 174 St.
Flushing 65, N. Y.

MERITAPE
Low Cost.
High Quality
Recording
Tape—in
boxes or cans.

FREE CATALOG!

Tape Recorders, Tapes, Miscellaneous
Accessories, Radios, Phonographs, Tele-
vision, Hi-Fi, etc. All famous brands.
This new, interesting, informative cata-
log is yours free! Write for it now!

TOWERS (Dept. TR)
P.O. Box 155, Philadelphia 5, Pa.

Introducing
The
MUS-ET



By
TAPETONE

Now

Hear your favorite television
programs in high fidelity sound

Using your existing
high fidelity equipment

The MUS-ET input is direct from the televi-
sion antenna. The MUS-ET output is direct
to the amplifier of your high fidelity system
insuring the most enjoyable
listening pleasure. **\$69.95**

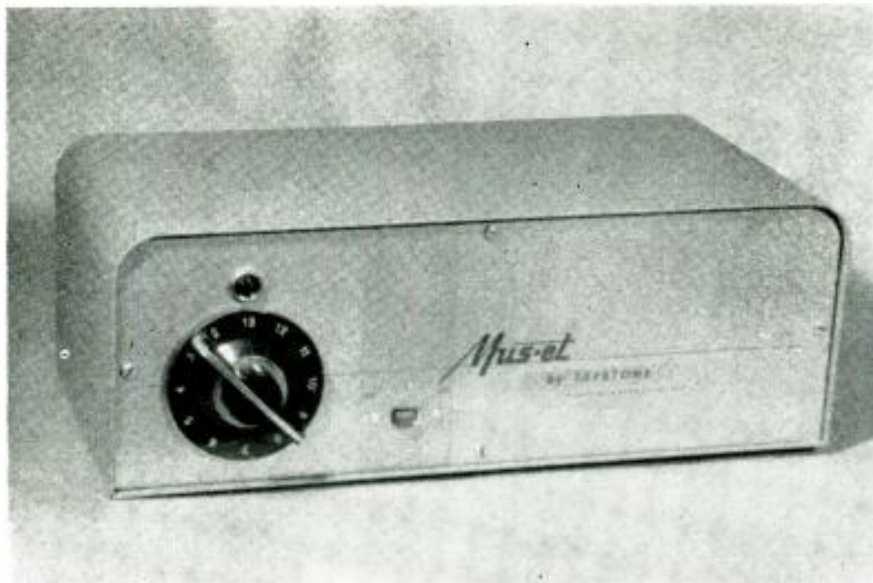
EXCELLENT FOR TAPE RECORDING

TAPETONE, Inc.

10 ARDLOCK PLACE, WEBSTER, MASS

NEW PRODUCT REPORT

STA **OK** TESTED



MUS-ET TELEVISION SOUND TUNER

... this unit picks up the sound channel of TV. Output suitable for recording or feeding Hi-Fi system.

THE Mus-et is a TV tuner which will meet the needs of those who wish to tape TV programs or who prefer to play the TV sound through a hi-fi system.

Many TV sets, which have excellent video circuits, are rather weak on the audio side. In addition, especially in the table models, the cabinet speakers are pitifully small and cannot do justice to the sound being put out by the stations.

Since TV has become such a potent force in the nation, the big-budget advertisers have been trying to out-do each other in the quality of the shows put on. Big name bands, musical comedies, usually sung and played by the tops in personalities, are now on TV rather than on radio.

Most of these shows are well worth taping for the fine music and in accomplishing this, the Mus-et fills the bill nicely.

Mus-et provides a 12-channel tuner similar to the TV selector and trimmer and a converter, two stages of limiter amplifiers and a discriminator. This

combination provides an audio output of approximately one-tenth volt sufficient to drive the phono or microphone input of most any type of tape recorder—or a pre-amp type power amplifier of a home hi-fi system or PA system.

The linearity and band pass of this unit is quite good and adequate to handle proficiently the audio quality available in the FM sound channel of the TV stations, provided it is connected as directed or is provided with a separate antenna.

The antenna connection is provided on the back of the unit. In our tests we connected it to the TV set antenna posts and found that it worked fine and did not cause any interference with the TV set itself.

Not being noted for going easy on equipment we test, we also made an antenna out of a length of 300 ohm twin lead, such as is used between the antenna on the roof and the TV set. This was cut to 54 inches—about channel 2 length—and taped to the office wall.

Product: Mus-et TV Sound Tuner

Manufactured by: Tapetone, Inc.,
10 Ardlock Place, Webster, Mass.

Price: \$69.95

As we are in a "fringe area" about 20 miles from the city of Baltimore, we did not expect too much. However, even on this makeshift antenna the Mus-et did very well and we barely opened the pre-amplifier volume control to get sufficient recording volume.

The stations from Washington, about 35 miles away, also came through but not as well. Doubtless with the proper antenna they would have.

The AM picture modulation is effectively suppressed and trapped in the Mus-et so that only the TV sound comes through.

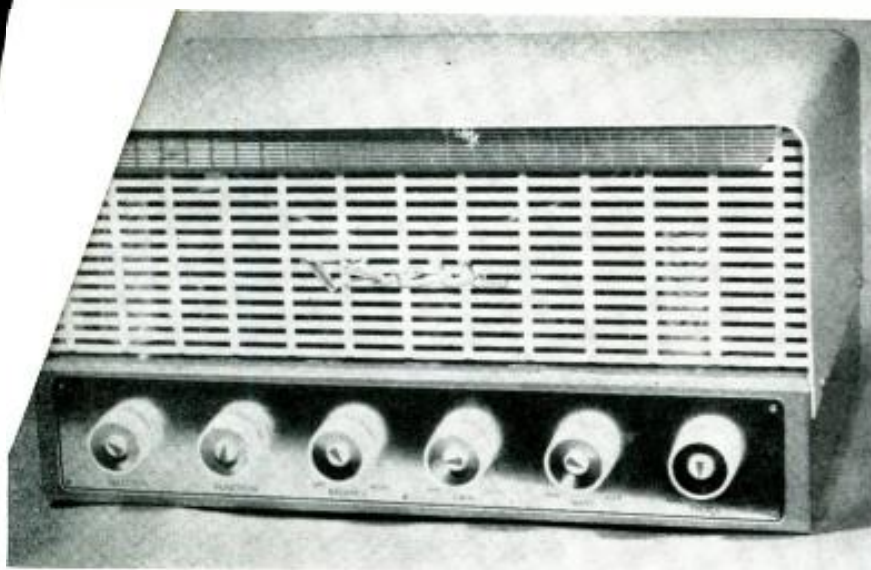
The unit is separately powered from the commercial power line and it is suggested that it be plugged into the same wall receptacle that furnishes power for the TV set.

A three-foot connecting cord terminating in a phono plug of the cinch type is attached to the unit and is used for making the connection to recorder or amplifier.

As the Mus-et does not have a speaker it must be used with a recorder which can be monitored as it is recording, especially if it is desired to eliminate the commercials from the program, or you can turn on your TV set and use it for monitoring during recording if your recorder does not permit you to monitor through headphones or speaker.

The tuning should be accomplished before the program starts and if your recorder has a magic eye or VU meter it may be used to indicate the best and sharpest tuning.

We have no hesitation in recommending this unit for those who want to tape from TV or, to twist an old adage about children, those who feel TV should be heard and not seen. It is surprising how many programs become more enjoyable that way.



BELL STEREO AMPLIFIER

... This versatile unit can be fed from tuners, turntables or tape—monaural or stereo; has automatic bass compensation for low level listening.

This dual amplifier is an ideal unit for the audiophile or hi-fi fan to use in his home or studio as it is a most complete switcher, preamplifier and dual amplifier and provides excellent quality and good volume.

It comprises two complete preamplifiers and two 10-watt amplifiers in one case with myriad inputs and outputs making it possible to set up a completely varied sound arrangement with a minimum of components.

It makes possible the connection of an AM-FM or TV tuner, a stereo AM-FM tuner, monaural and/or stereophonic record player with compensated inputs, monaural or stereophonic tape recorder or playback with or without equalization (depending upon whether the recorder output is direct from the playback heads or recorder output). It has a preamp (and compensation) for magnetic pickups. An auxiliary input provides practically every type of amplifier connection one could want.

The outputs are separate to feed two loudspeakers, providing up to 10 watts audio on each channel. Each has output impedances of 4, 8, and 16 ohms which will match most speakers. 500/600

ohm speakers or lines can be matched with an auxiliary transformer if necessary. A low level high impedance output is also provided for each of the two amplifiers.

Sufficient voltage gain is provided by six multiplier and driver stages in each amplifier, giving adequate output for input levels as low as -75 db.

The residual hum and noise measured

Product: Bell Stereophonic Amplifier—Model 3DTG

Manufactured by: Bell Sound Systems, 555 Marion Road, Columbus 7, Ohio

Price: \$159.95

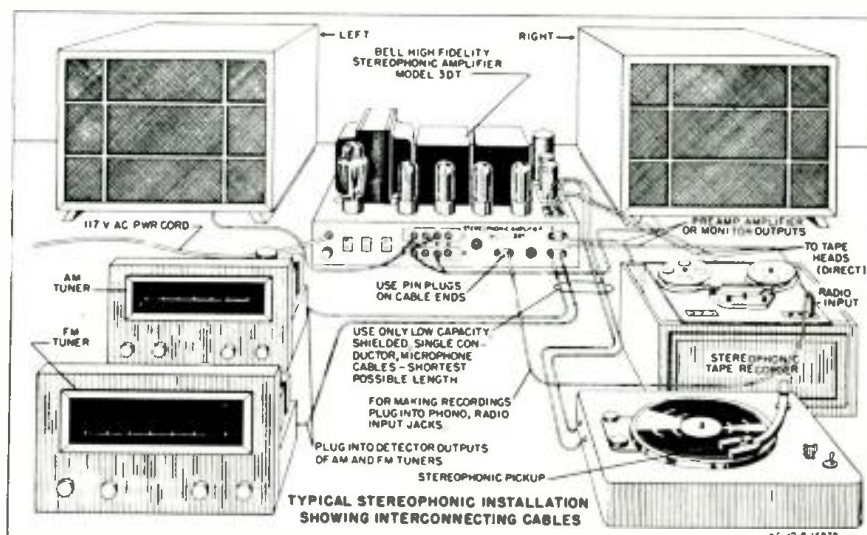
Model 3DT (less cover) \$149.95

89-91 db below 10-watt output, without factory adjustments being changed.

The frequency response is in excess of studio FM requirements and a flat response of 35 to 16,000 cycles per second, plus or minus 1/2 db is met without juggling the controls between amplifiers. Taken singly, broader response of 20 to 20,000 cycles can be met.

The gain, bass and treble controls are ganged to control both amplifiers simultaneously. A balance control is provided so that either the left or right amplifier may be shaded as desired.

The input selector covers magnetic pickups, tape heads direct, tape recorders, radio tuners, crystal pickups, high level (.1 to 1 volt) inputs and by judicious selection, dynamic, ribbon and crystal microphones. A crystal can be fed into the radio input and a dynamic mike or ribbon mike with a high impedance transformer can be fed into the



The diagram shows how the stereophonic amplifier may be hooked up to the various sound sources. Tests showed it to be a very versatile and highly satisfactory unit.



All of the inputs and outputs are conveniently located on the rear of the chassis. On the left are three 110 volt outlets for making connections to recorders, turntables, tuners, etc. The center strips are the speaker outputs giving impedances of 4, 8 and 16 ohms which will match most speakers.

tape head input. Any preemphasis on the high frequencies can be compensated for.

A compensating selector is provided to give bass boost on low level output to avoid thinness and is automatically reduced in effectiveness as the output level is increased—or this function may be cancelled entirely.

It was included in the unit to compensate for a natural fault in the human ear which does not pick up the bass properly at low levels of sound. By adding the proper amount of bass boost at low level, the music still sounds right. This should prove a boon to those who

have spouses with sensitive ears and who have to run the rig with the volume low in order to keep peace in the family.

The amplifier is housed in a handsome case finished in gold and ivory. Controls are ivory knobs on a burnished gold plate.

Space precludes mention of all the possibilities of this stereo amplifier. We feel it is a high quality composite of many and varied units and should provide the purchaser with all the controls and factors necessary to make a complete sound system central amplifier.



The input side of the chassis. The inputs on top of the chassis are for magnetic pickups and tape heads. Those on the right are the radio and auxiliary inputs. A hum balancing adjustment and a radio input adjustment are also included. Microphones may also be plugged into the amplifier if it is desired to use it as a PA system.

**DICTATE REPORTS
ACCURATELY-PROMPTLY!**
make your car, boat or plane
a "rolling office"
with **ATR**
INVERT RS

for changing your storage
battery current to
A.C. Household
ELECTRICITY
Anywhere
... in your
own car!



**EASY TO INSTALL
EASY TO OPERATE**

ATR INVERTERS
especially designed for operating
standard 110 volt A. C. . . .

- TAPE RECORDERS
 - WIRE RECORDERS
 - DICTATING MACHINES
 - ELECTRIC RAZORS
- for
- EXECUTIVES
 - SALESMEN
 - PUBLIC OFFICIALS
 - POLICEMEN
 - FIREMEN
 - OUTDOOR MEN
 - REPORTERS
 - FIELD INSPECTORS
 - DOCTORS
 - LAWYERS, ETC.

See your jobber or write factory

✓ NEW MODELS ✓ NEW DESIGNS ✓ NEW LITERATURE
"A" Battery Eliminators, DC-AC Inverters, Auto Radio Vibrators

ATR **AMERICAN TELEVISION & RADIO CO.**
Quality Products Since 1931
SAINT PAUL 1, MINNESOTA, U. S. A.

WAP

is open to both amateur and professional. **RECORDING** does not fit in this column and all between individuals. Ads. \$30 per word. Individual ads. \$05 a word. should accompany copy. Ads will be available issue. Please print or type. Address ad to: Shop Manager Magazine, Severna Park, Md.

"picture fidelity" recording tape. Corporation, 152 West 42nd St.,

professional midget portable tape recorder, perfect condition. Also, in 12 V. to 115 AC, 250 watts, free. If you have quality tape interviews African or European with releases, contact 3666 51 Ave. North, St. Petersburg,

"MIRACULOUS TOWN"—Wanted, the complete Broadway musical, starring Rosalind Wiseman, 513 Kentucky Ave., Columbia, Missouri.

DISCS OF GREAT MODERNS! Electrifying recordings of archival value! Composer Hindemith, conductor Ansermet, Nobel Prize Winners, novelists Ortega y Gasset, Barth, etc., 60 minute collection \$6.95. National Tape Library, 804 F Street, Washington, D. C.

GILBERT & SULLIVAN—Want to respond with anyone having an interest in Gilbert & Sullivan operettas. Write George Sukol, 1109 Agnew Drive, Drexel Hill, Pa.

FOR SALE: Magnacord S36B for rack mounting. Two speed, 7.5 and 15. Includes 10-inch reel arm extension. Used just a few times, practically brand new—\$175. Write: A. Wycislo, 457 West 51st St., New York, N. Y.



**LETTERS
REPORTS
SURVEYS
INTERVIEWS
RECORDS
INSTRUCTIONS**



**WHEN YOU'RE
"On-the-
Road"**

**TAKE A "RECORDER" and a
CARTER CONVERTER in your CAR**

Don't leave your recorder idle when you're "on the road." Thousands of progressive salesmen, executives, adjusters, lecturers, newscasters and others working "in the field" find they can make more calls, cover more ground, work more efficiently with a **RECORDER** or **DICTATING MACHINE** in the car.

Operated by a **CARTER ROTARY CONVERTER** from your car battery, you can easily **DOUBLE** the usefulness of your recorder if you take it along.

Carter Converters are used in cars, boats, planes, supplying 110 v. AC from storage battery power. Sold by radio parts distributors everywhere. Mail Coupon for full details and nearest distributor. Carter Motor Co., Chicago 18.

Carter Motor Co.
2755 W. George St.
Chicago 18, Illinois

Carter

Please send illustrated circular and full information on Carter Converters.

Name _____
Address _____
City _____ State _____

TAPE RENTALS—Now you can rent a wide variety of nationally known pre-recorded tapes—monaural and binaural. For particulars and free price list, write to National Rent-A-Tape, P. O. Drawer 1, Winnetka, Illinois.

FOR SALE: Tech-Master Hi-Fi 20-watt amplifier, TM-15A. Assembled by technician. Kit alone sells for \$48.95. Will sell for \$45. Also, Electro-Voice SP12-B Hi-Fi 12" speaker in Rebel 5 enclosure, will sell for \$45. Both items for \$85. Harry W. Gilmer, Box 363, Emory, Virginia.

DISCS MADE from your tapes—78, 45 or L.P. Standard studio quality discs. Prices reasonable. Garrison's Recording Service, 534 Granby St., Lakeland, Fla.

WANTED. Used or new recording tape, large quantities only (50 or more reels), any condition. Write fully to: R. T. Lackner, 2029 Bradley Pl., Chicago 18, Illinois.

AMPLIFIER, brand new, have two, will sell one for \$47.50; two brand new speakers 8" PM for \$6.75 each, also a new EV microphone, cost \$75.00 for \$40. George F. Bischof, Fort Worth 4, Texas.

LEARN WHILE ASLEEP with your recorder. Amazing book gives full instructions. \$2.00. Guaranteed. Research Association, Box 610, Omaha.

1957 HI-FIDELITY model VM-710 tape recorder complete with accessories. Cost \$189.95, yours for \$149.95. Jack Fives, 2916 Rockrose Avenue, Baltimore 15, Maryland.

USE YOUR RECORDER in direct commission work for independent, nationwide record company, AFM licensed. Part time, large profits. Sparkle Records, Inc., P. O. Box 21, Station B, Evansville, Indiana

MAGNECORD M81CX used 50 hours, cost \$790, sell \$525; Concertone 20/20 TWR-2 with cases and monitoring amplifier, excellent condition, cost \$630, sell \$475; new Magnecord S35B, cost \$379, sell \$265; new Jensen Imperial speaker system, mahogany finish, cost \$575, sell \$375; new Jensen Concerto speaker system, mahogany finish, cost \$189, sell \$125; Fisher AM-FM tuner 50-R, excellent, cost \$164.50, sell \$120; Fisher 50-CM-4 audio control, excellent, cost \$97.50, sell \$55; Fisher 70-AZ-2 25 watt amplifier, cost \$99, sell \$60; Fisher 50-R, 50-CM-4, 70-AZ-2, cost \$361, sell \$225 prepaid anywhere USA in original shipping cartons. Box 221, Lebanon, Tennessee.

FOR SALE: tape recorders and Hi-Fi: Ampex 600 recorder and Model 620 companion piece, both absolutely spotless condition that cannot be told from new; cost \$694.50, sell \$575. Midgetape pocket tape recorder, still operating on original batteries and still under factory warranty, perfect inside and out; cost \$249.95, sell \$169. Fisher FM80 tuner, as the day it left the factory, only \$95. (Several other Fisher items in like condition at like saving, also.) Merantz Audio Console, beautiful condition, cost \$153, yours for \$99.50. Altec 603C speaker two months old, \$119. Zenith "Royal 500" transistor pocket radio, received as a gift and never used, \$55. Recotom microgroove diamond stylus pickup, \$15. If not satisfied with any item purchased, your money refunded in full. Philip Lance, Greenwich, N. J.

MINIFON RECORDER with all accessories. Perfect condition, \$100. Andrew A. Sandor, M.D., 946 East Main Street, Alhambra, California.

**WE
BUY-SELL-TRADE**

NEW AND USED

TAPE RECORDERS
MOST ALL MAKES

Also Hi-Fi Equipment

HIGHEST TRADE-IN ALLOWANCES

SAMPSON ELECTRONICS
Central City, Nebr.

LEARN HYPNOTISM from tape. Complete course, \$4.00. Free information. Drawer 697, Ruidoso, New Mexico.

SYNCHRONIZER HOOKUP: Make sound movies with your tape recorder, \$10.00. Anderson, 2424 Phelps Street, Stockton, Calif.

QUIERO CORESPONDER EN ESPAÑOL por cintas magneticas. Favor de enviarme su primera cinta Nicholas Lenrini, M.D., Cheboygan, Michigan, U.S.A.

WALKIE-RECORDALL, with powerpack and voice activator, in briefcase. Factory checked. Make reasonable offer. Unger, 400 Forest Ave., Buffalo, N. Y.

CLASSIC TAPE LIBRARY, sale, all or part, on 7 inch, 1200 ft. reels, double track, stereophonic, World's Great Overtures on tape broadcast quality hi-fi recordings. \$7.99 each, or send 50c for complete listing. R. Hession, 5234 S. Dorchester Ave., Chicago 15, Ill.

COMPLETE HIGH FIDELITY custom recording service. Records from your tapes. Sample record \$1.00. Free information. Baron's Recording, Linden, Wash.

HYPNOSIS—SLEEP LEARNING. Wish to tape-respond with persons skilled, studying, or interested in hypnosis or sleep learning. Give details on tape 3 1/4 speed, dual track, all tapes answered, no letters please. H. Bargy, 1111644 Camarilla, North Hollywood, Calif.

BINAURAL—TWO FENTONE Blue Ribbon mikes with hum shields. Two Shure Cable Transformers and 25 foot extension cables. Fine response, new condition, \$100. N. C. Bremer, 608 E. Seneca St., Ithaca, N. Y.

TAPE RECORDERS, too many, have a Webcor, cost \$244.50 for \$146.50; Wilcox-Gay \$165 like new for \$75; Eicor \$59.50. I have two others am keeping, two are brand new. George F. Bischof, Fort Worth 4, Texas.

ONE 250 WATT and one 500 watt RCA power amplifier, new, in original packing boxes, complete with tubes. Will trade for professional tape recording equipment or sell for cash. L. E. Lechleiner, 2216 Green Street, Harrisburg, Penna.

CIRCUS CALLOPE MUSIC: Different—Entirely New—Authentic—Fourteen full length selections, 15 RPM extra extended play, (thirty minutes playing time). Two ultra high fidelity records in an attractive album, \$5.00 postage prepaid. Single copy, seven selections, \$3.00. Demo Records, 1421 N. 21st Street, Milwaukee 5, Wisconsin.

FOR SALE: 4 Stromberg AU-29 six watt amplifiers, \$35 each, still in unbroken cartons; unused Presto PB-17 long play tape machine, \$400; carrying cases in good condition for Magnecord Voyager and for PT6-AH tape mechanism only, best offer. Chief Engineer, WKDN, Camden 4, N. J.

WOULD LIKE TO TAPE—respond with people. All tapes answered. Charles Smith, 512 Columbia Terrace, Peoria, Illinois.

WANTED: late model Berlant or Concertone stereophonic tape recorder. Must be in good condition, state price and model number. Also, Model 108-B Gray pickup arm. C. Droz, 2085 W. 105 St., Cleveland 2, Ohio.

GIANT SAVINGS! Manufacturer overstock, new hi-fi recording tape. Boxed 7" reel, \$1.70 postpaid. Order three, enclose only \$4.65! Guaranteed. Tape Enterprises, Box 6, Springdale 1, Conn.

FOR SALE
16" Hi-Fi Transcriptions—
Big Catalog, 25c
Tape Mood Music 1/2 Hour Only \$6.00
Sample Copy \$2.75
TRANSCRIPTION SERVICE
166 Barkley Ave.
Clifton, N. J.

TAPE RECORDERS
TAPES (in Boxes or Cans) & HI-FI
EXCEPTIONAL VALUES
NATIONALLY ADVERTISED BRANDS
WRITE FOR FREE CATALOG
CARSTON 2158 E. 88 St.
New York 28, N. Y.

AMPEX Approves



FERRO-SHEEN TAPE

for Revolutionary VIDEOTAPE* Recorder

A full hour's TV program—picture and sound—on a single 12½-inch reel of magnetic tape, ready for instantaneous playback . . . that's the electronic miracle made possible by the epoch-making Ampex Videotape Recorder unveiled last spring. The television industry immediately bought up the available prototype models of the amazing new machine, and one of the first questions to come up was, of course, "Which tape?" The Ampex Videotape Recorder records on a special 2-inch wide tape, which must be made to the most rigid specifications to capture fre-

quencies as high as 4,000,000 cycles per second. All along, Orradio Industries, manufacturers of the famous **irish FERRO-SHEEN** process tapes, had been working with Ampex, so they were ready for the question. Now **irish FERRO-SHEEN Videotape** is available in production quantities, and delivery has just been completed on the television industry's first full-scale commercial order.

The successful adaptation of the exclusive **irish FERRO-SHEEN** process to the extraordinarily exacting requirements of commercial Videotape production is the culmination of a long-term research and development program—implemented by the same staff and facilities responsible for the development and current production of the five famous **irish FERRO-SHEEN** tapes for audio tape recorders: Shamrock, Green Band, Long Play, Double Play and Sound Plate.



*Reg. T.M. Ampex Corp.

ORRADIO INDUSTRIES, INC.
OPELIKA, ALABAMA

World's Largest Exclusive Magnetic Tape Manufacturer
Export: Morhan Exporting Corp., 458 B'way, New York 13, N.Y., U.S.A.
Canada: Atlas Radio Corp., Ltd., Toronto, Ontario

Only "Scotch" Magnetic Tape was sensitive enough to capture

a madman's madrigals



Don Carlo Gesualdo

In 1613 the psychotic Italian nobleman and composer Don Carlo Gesualdo died.

To us he leaves a magnificent bequest—the brilliant Gesualdo madrigals. "A collection of marvels," Igor Stravinsky describes these musical masterpieces.

Many of these ingenious *a cappella* compositions are now superbly recorded in the highly acclaimed new Sunset Records album, "Aldous Huxley Presents the Madrigals of Gesualdo."

To reproduce the mad composer's subtle dynamic changes and harmonic progressions, Sunset Records made its original master recording on a magnetic tape with an international reputation for highest fidelity. Their choice—"Scotch" Magnetic Tape—because it "assured us perfect reproduction in recording our album."

"Scotch" Magnetic Tape is *always* first choice where superior sound reproduction is essential. Try it on your machine and you'll hear why.



ALDOUS HUXLEY AND IGOR STRAVINSKY at the Gesualdo madrigals recording session.



The term "SCOTCH" and the plaid design are registered trademarks for Magnetic Tape made in U.S.A. by Minnesota Mining and Mfg. Co., St. Paul 6, Minn. Export Sales Office: 99 Park Avenue, New York 16, N.Y.
© 3M Co., 1956