

MAY, 1958

MILTON B. SLEEPER, Publisher

PRICE 50¢

# hi-fi music

AT HOME



devoted to hi-fi music from records, tape, and FM radio

*In This Issue: FM Stations Listed by Frequencies*

WorldRadioHistory

*Produce*

the experts say... in High Fidelity the best buys are



**EICO**  
KITS and WIRED

**BETTER ENGINEERING** Since 1945 EICO has pioneered the concept of test instruments in easy-to-build kit form — has become world-famous for laboratory-precision instruments at low cost. Now EICO is applying its vast experience to the creative engineering of high fidelity. Result: high praise from such authorities as Canby of AUDIO, Marshall of AUDIOCRAFT, Holt of HIGH FIDELITY, Fantel of POPULAR ELECTRONICS, Stocklin of RADIO TV NEWS, etc. — as well as from the critical professional engineers in the field.†

**SAVE 50%** Mass purchasing, and a price policy deliberately aimed to encourage mass sales, make this possible.

**EASY INSTRUCTIONS** You need no previous technical or assembly experience to build any EICO kit — the instructions are simple, step-by-step, "beginner-tested."

**DOUBLE 5-WAY GUARANTEE** Both EICO, and your neighborhood distributor, guarantee the parts, instructions, performance . . . as well as lifetime service and calibration at nominal cost . . . for any EICO kit or wired unit.

**BEFORE YOU BUY, COMPARE** At any of 1200 neighborhood EICO distributors coast to coast, you may examine and listen to any EICO component. Compare critically with equipment several times the EICO cost — then you judge. You'll see why the experts recommend EICO, kit or wired, as best buy.

† Thousands of unsolicited testimonials on file.



HFS2 Speaker System



HFT90 FM Tuner with "eye-tronic" tuning



HF61 Preamplifier



HF60, HF50 Power Amplifiers



**HFS2 Speaker System:** Uniform loading & natural bass 30-200 cps achieved via slot-loaded split conical bass horn of 12-ft path. Middles & lower highs from front side of 8½" cone, edge-damped & stiffened for smooth uncolored response. Suspensionless, distortionless spike-shaped super-tweeter radiates omni-directionally. Flat 45-20,000 cps, useful to 30 cps. 16 ohms. HWD: 36", 15¼", 11½". " . . . rates as excellent . . . unusually musical . . . really non-directional" — Canby, AUDIO. "Very impressive" — Marshall (AUDIOCRAFT). Walnut or Mahogany, \$139.95. Blonde, \$144.95.

**HFT90 FM Tuner** equals or surpasses wired tuners up to 3X its cost. New, pre-wired, pre-aligned, temperature-compensated "front end" — drift-free. Sensitivity, 1.5 uv for 20 db quieting, is 6X that of other kit tuners. DM-70 travelling tuning eye. Response 20-20,000 cps±1 db. Cathode follower & multiplex outputs. Kit \$39.95\*. Wired \$65.95\*. Cover \$3.95. \*Less cover, excise tax incl.

**HF61A Preamplifier**, providing the most complete control & switching facilities, and the finest design, offered in a kit preamplifier, " . . . rivals the most expensive preamps . . . is an example of high engineering skill which achieves fine performance with simple means and low cost." — Joseph Marshall, AUDIOCRAFT. HF61A Kit \$24.95, Wired \$37.95, HF61 (with Power Supply) Kit \$29.95, Wired \$44.95.

**HF60 60-Watt Ultra Linear Power Amplifier**, with Acro T0-330 Output Transformer, provides wide bandwidth, virtually absolute stability and flawless transient response. " . . . is one of the best-performing amplifiers extant; it is obviously an excellent buy." —AUDIOCRAFT Kit Report. Kit \$72.95. Wired \$99.95. Matching Cover E-2 \$4.50.

**HF50 50-Watt Ultra-Linear Power Amplifier** with extremely high quality Chicago Standard Output Transformer. Identical in every other respect to HF60 and same specifications up to 50 watts. Kit \$57.95. Wired \$87.95. Matching Cover E-2 \$4.50.

**HF30 30-Watt Power Amplifier** employs 4-EL84 high power sensitivity output tubes in push-pull parallel, permits Williamson circuit with large feedback & high stability. 2-EZ81 full-wave rectifiers for highly reliable power supply. Unmatched value in medium-power professional amplifiers. Kit \$39.95. Wired \$62.95. Matching Cover E-3 \$3.95.

**HF-32 30-Watt Integrated Amplifier Kit** \$57.95. Wired \$89.95.

**HF52 50-Watt Integrated Amplifier** with complete "front end" facilities and Chicago Standard Output Transformer. Ultra-Linear power amplifier essentially identical to HF50. The least expensive means to the highest audio quality resulting from distortion-free high power, virtually absolute stability, flawless transient response and "front end" versatility. Kit \$69.95. Wired \$109.95. Matching Cover E-1 \$4.50.

**HF20 20-Watt Integrated Amplifier**, complete with finest preamp-control facilities, excellent output transformer that handles 34 watts peak power, plus a full Ultra-Linear Williamson power amplifier circuit. Highly praised by purchasers, it is established as the outstanding value in amplifiers of this class. Kit \$49.95. Wired \$79.95. Matching Cover E-1 \$4.50.

Prices 5% higher in the West

**HF12 12-Watt Integrated Amplifier**, absolutely free of "gimmicks", provides complete "front end" facilities & true fidelity performance of such excellence that we can recommend it for any medium-power high fidelity application. Two HF12's are excellent for stereo, each connecting directly to a tape head with no other electronic equipment required. Kit \$34.95. Wired \$57.95.

**HFS1 Two-Way Speaker System**, complete with factory-built cabinet. Jensen 8" woofer, matching Jensen compression-driver exponential horn tweeter. Smooth clean bass; crisp extended highs. 70-12,000 cps ± 6 db. Capacity 25 w. Impedance 8 ohms. HWD: 11" x 23" x 9". Wiring time 15 min. Price \$39.95.

**MAIL COUPON FOR CATALOG**

EICO® 33-00 Northern Blvd., L.I.C. 1, N.Y.  
Show me how to SAVE 50% on professional Test Instruments and High Fidelity. Send me free catalog and name of neighborhood distributor.

Name .....

Address .....

City..... Zone..... State.....

HII-5



HF52, HF20 Integrated Amplifiers



HF12 Integrated Amplifier



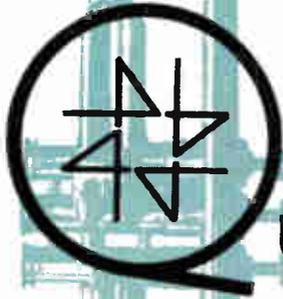
HF30 Power Amplifier



HFS1 Speaker System



33-00 Northern Boulevard, L. I. C. 1, N. Y.  
Over 1 Million EICO instruments in use the world over.

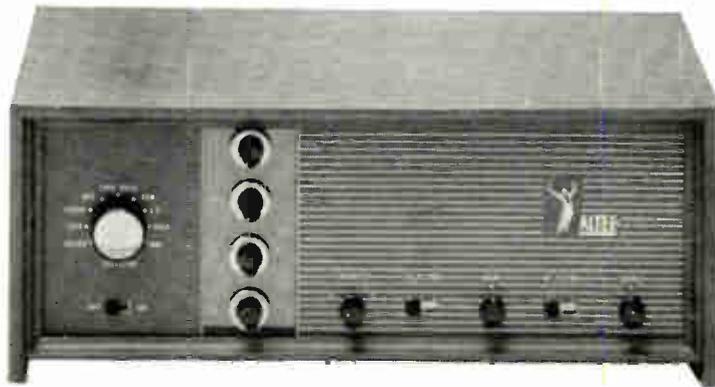


# THE NEW ALTEC

## Quartet 344A

*20-watt power amplifier and preamplifier*

**INVITES COMPARISON**



The new ALTEC "Quartet" (named for its unique 4 independent volume controls) is the only complete amplifier with all of the control features found in the best separate preamplifiers plus a full 20 watts of power.

*Compare* these outstanding features of the "Quartet":

*Six Inputs*—3 lo-level for magnetic phono pickup, microphone, and tape deck...3 hi-level for tuner, tape reproducer, and spare.

*Four Major Source Volume Controls* allow you to *pre-set* the level of any major program material and change from input to input or turn the power on and off without the necessity for readjustment. D. C. powered program indicator lights for completely hum-free operation.

*Guaranteed Performance Specifications:* 20-22,000 cps range, 20 watts (40 peak), 138 db gain, 32 db bass control range, 35 db treble tone control range.

*Four Position* loudness compensation control... continuously variable wide range bass and treble controls...*Three Position* independent rumble and scratch filters—all designed to give complete flexibil-

ity to suit reproduction quality of individual tastes and material.

*Tape Recording Output*—provided so material from any input may be selected for recording.

*Equalization*—4 phono compensation curves: European, LP, RIAA, and 78 rpm. 1 tape deck compensation.

*Quality Construction*—an example of the quality built into the "Quartet" is its "professional" printed circuit. Unlike common printed circuits, all components are attached through riveted eyelets making it possible to replace components without destroying the circuit.

*Extraordinarily Sleek Design:* Dimensions (less cabinet)—4-5/8" H, 13-3/4" W, 7-1/8" D... (with cabinet)—5-15/16" H, 14-5/8" W, 8-13/16" D.

Price: (less cabinet) **\$106<sup>00</sup>** Walnut, blond, or mahogany solid hardwood cabinet, \$18.00.

Write for free catalogue  
**ALTEC LANSING CORPORATION 5M**  
1515 S. Manchester Ave., Anaheim, Calif.  
161 Sixth Ave., New York, N.Y.



12-4

Garrard models change. Garrard ideals do not. Meaningful new features are added. Time-proven features are carefully retained. Gadgets, for the sake of gadgetry, are sternly rejected. The all-important fact to remember is that thirty-five years of experience in designing, testing, and building fine record players, guide us in offering you the present Garrard models.

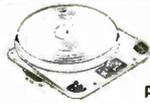
# Garrard

**WORLD'S FINEST  
RECORD PLAYING  
EQUIPMENT**



**B. I. C.  
ENDORSED  
QUALITY**

*There's a Garrard for  
every high fidelity system*



**Model 301 PROFESSIONAL  
TRANSCRIPTION TURNTABLE**  
Each speed variable!  
Each unit with its own  
performance test report. \$89.00



**Model RC98 4-SPEED SUPER  
AUTO-MANUAL CHANGER**  
Continuous + or - variable  
control on all speeds. \$67.50



**Model TPA/10 TRANSCRIPTION TONE ARM**  
—Professional performance,  
jewel-like construction  
and exceptional  
versatility. \$24.50



**Model RC88 4-SPEED DELUXE  
AUTO-MANUAL CHANGER**  
Exclusive pusher platform  
protects your records. \$54.50



**Model T Mark II  
4-SPEED MANUAL PLAYER**  
A superior unit for quality  
budget systems. \$32.50



**Model RC121 4-SPEED MIXER  
AUTO-MANUAL CHANGER**  
Fine performance with economy  
and compactness. \$42.50

For information write: **GARRARD SALES CORPORATION, Dept. GE-38, PORT WASHINGTON, N. Y.**

**Milton B. Sleeper**  
Publisher

**Douglass Cross**  
Music Editor

**Shirley Fleming**  
Assistant Music Editor

**Ann Douglass**  
Editorial Assistant

**Leonard Feather**  
Jazz Music

**Elli Zappert**  
Art Director

**Max Richter**  
Photography

**Mary Yiotis**  
Production Manager

**Frederic R. Anderson**  
Circulation Manager

**Contributors to This Issue**

Kurt Herbert Adler  
Jean Bowen  
Arthur Cohn  
Douglass Cross  
Leonard Feather  
Shirley Fleming  
Bernard Gabriel  
Charles Graham  
Ralph Auf der Heide  
Julian Hirsch  
Gladden Houck  
Alfred Kaine  
Gary Kramer  
Ezra Laderman  
Marvin David Levy  
George Louis Mayer  
Louis Menashe  
David H. Miller  
Sara Given Rockey  
Robert Sherman  
Martial Singher  
Abraham Skulsky  
Milton Sleeper  
Harold Taplin

HI-FI MUSIC AT HOME is published monthly, except in August, by Sleeper Publications, Inc., Hi-Fi House, 105 E. 35th St. at Park Ave., New York 16. Telephone: MUrray Hill 4-6789. THIS OFFICE'S CLOSED FROM THURSDAY NIGHT TO MONDAY MORNING.

Subscription rates are \$6.00 per year (11 issues including the Hi-Fi Yearbook issue) or \$15.00 for 3 years (33 issues including 3 Hi-Fi Yearbook issues). Single copies 50¢ except for the Hi-Fi Yearbook issue which is \$2.00. Outside the USA, Canada, and the Pan American Postal Union, rates are \$7.00 per year, or \$18.00 for 3 years.

Editorial contributions and interesting photographs are welcome, and will be paid for upon publication. No responsibility can be accepted for unsolicited manuscripts, and they will not be returned unless they are accompanied by return postage.

Entered as second class matter at New York City, and additional entry at Concord, N. H., under the Act of March 3, 1879. Printed in the U. S. A. by Rumford Press, Concord, N. H.

The cover design and contents of HI-FI MUSIC AT HOME are fully protected by copyrights, and must not be reproduced in any manner or form. Quotations are not permitted without specific authorization in writing from the Publisher.

Copyright 1958 by  
**Sleeper Publications, Inc.**

**Milton B. Sleeper, President and Treasurer**  
**Ethel V. Sleeper, Secretary**  
**EDITORIAL & CIRCULATION**  
105 East 35th Street at Park Avenue, New York 16

**ADVERTISING**  
Charles Graham, 105 E. 35th Street, New York 16  
Telephone MU 4-6789  
Fletcher Udall, Hearst Bldg., San Francisco 3  
Telephone EXbrook 2-5107  
James Claar, 111 N. LaCienega Blvd., Beverly Hills  
Telephone OLYmpia 2-0837

**THIS ISSUE: OVER 50,000 COPIES**



COMPLETE GUIDE TO HI-FI REPRODUCTION FROM  
RECORDS, TAPE AND FM RADIO

## CONTENTS

VOLUME 5 • NUMBER 3 • MAY, 1958

### SPECIAL FEATURES

Editorial: The Waning Importance of Radio Networks...	17
The Hi and the Fi.....	19

### HI-FI MUSIC

Let's Make Music Together—Sara Given Rockey.....	20
Which Music Critic Do You Read?—Douglass Cross.....	22
Stereo Tape Reviews and Ratings.....	24
Guide to Record Collecting—Martial Singher and George Louis Mayer.....	26
The "Salute" LPs—Leonard Feather.....	27

#### Record Reviews and Ratings

Triple-A Raves.....	29	Keyboard.....	32
Orchestral Music....	28	Miscellany.....	32
Concertos.....	30	Folk Music.....	33
Chamber Music.....	30	Stage and Screen...	33
Vocal.....	31	Popular Albums....	33
Opera.....	31	Jazz.....	34

### HI-FI EQUIPMENT

Changing from Mono to Stereo—Charles Graham.....	36
Stereo Discs: Take Your Choice.....	38
Stereo System Control Unit.....	39
Workshop Project No. 19: EICO FM Tuner— Harold Taplin.....	40
Hi-Fi Standards and Measurements, Part 3— Julian Hirsch and Gladden Houck.....	42
FM Broadcast Stations, Listed by Frequencies.....	44
"Inside Information" on Commended Components.....	47

### DEPARTMENTS

Records, Tape, and FM Radio.....	4
Buy, Sell, and Swap.....	64
Advertisers Index.....	Facing 64
Information and Subscription Service.....	Facing 64

**COVER** The sounds of music have helped many of us survive a long, hard winter. The reassuring signs of spring were slow in making their appearance, but come May, nature joins with music to spread beauty across the land. So Elli Zappert planted flowers in a French horn to make a picture suited to this happy season.

**Now**

Everyone can  
play Stereo.

The leading  
record companies  
are about to  
release their  
libraries on

# STEREO DISCS

JOIN THE STEREOPHONIC MUSIC SOCIETY  
and receive a

# FREE ELECTROVOICE STEREO CARTRIDGE

AND DIAMOND NEEDLE

retailing at  
**\$19.50**

The Stereophonic Music Society  
is the first to bring you the  
opportunity to enjoy Hi Fidelity  
long playing Stereo records  
by making this extraordinary offer!

This cartridge will enable you to play your present discs  
(monaural) as well as the new discs (stereo); and it is  
guaranteed not to damage the grooves of Stereo Discs  
even when played monaurally.

**Join**

## THE STEREOPHONIC MUSIC SOCIETY

and enjoy these additional advantages:

- Maximum savings on stereophonic discs
- Maximum savings on stereophonic tapes
- Immediate shipment
- Free monthly catalog of latest releases

Initial purchase requirements are 3 discs from the list shown below  
and yearly membership fee \$9.00. No further obligation.

### ABC-PARAMOUNT

- Eydie Gorme Vamps the Roaring 20's ABC-127.....\$4.98
- More College Drinking Songs ABC-129.....\$4.98
- Hi-Fi In An Oriental Garden ABC-130.....\$4.98
- Ferrante And Telcher: "Sound" ABC-134.....\$4.98
- World War II Songs in Hi-Fi ABC-135.....\$4.98
- Strauss in Hi-Fi (Valentine) ABC-186.....\$4.98

### URANIA (available May 15)

- Saint-Saens Symphony No. 3 for organ and orchestra USD 1001.....\$5.95
- Offenbach Gaité Parisienne (London Philharmonic Orch.) USD 1002.....\$5.95
- Strauss Sparkles in Hi-Fi (unusual waltzes, polkas, marches) USD 1003.....\$5.95
- Rossini-Respighi La Boutique Fantasque (London Philharmonic Orch.) USD 1004.....\$5.95

### COUNTERPOINT

- Juanita Hall — Bloody Mary Sings The Blues 556.....\$4.98
- Boccherina — Cello Concerto B Flat Major and  
2 Cello Concertos Vivaldi 5 A Minor 3 E Minor 555.....\$4.98
- Pee Wee Russell — Portrait of Pee Wee 562.....\$4.98
- Michel Larue — Singing Negro Slave Songs 560.....\$4.98

To: STEREOPHONIC MUSIC SOCIETY, INC.  
303 Grand Avenue, Palisades Park, N. J.

Please enroll me for a full year period as a member of the Stereophonic Music Society. I understand that I am under no obligation to purchase any specified number of records other than the 3 which I have checked above, and that I am to receive a free Electrovoice Stereo Cartridge and diamond needle, (retailing at \$19.50). Other benefits which I will receive are maximum savings on stereo discs and tapes, free monthly catalog of latest releases.

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

NAME.....

ADDRESS.....

CITY.....ZONE.....STATE.....

MAKE OF RECORD PLAYER.....

Please send additional information concerning the Society.

**Mail  
Today!**



### Hi-Fi Shows

Dates are now being set for some of the fall shows. The list below will be supplemented in future issues as fast as information is received.

CHICAGO: Parts Show, Hilton Hotel, May 19-21.

HOUSTON: Shamrock-Hilton Hotel, June 6-8.

CHICAGO: Palmer House, Sept. 12-14.

NEW YORK: Trade Show Bldg., Sept. 30-Oct. 4.

### Program Edition for WLOL-FM

With this issue, we start a Program Guide edition of Hi-Fi Music for Minneapolis-St. Paul station WLOL-FM. We are very pleased about this, for we have been hearing that this is the No. 1 station for good music in that area. If you can hear WLOL-FM at your home, and you are a subscriber to Hi-Fi Music, just let us and we'll send you the WLOL-FM edition, containing their day-by-day schedule, without extra charge if you ask us.

### Stereo Listening

On May 22, J. Donald Harris of the USN Medical Research Laboratory will deliver an unusually interesting paper before the Audio Engineering Society entitled "Are Two Ears Better Than One". Time is 7:15, and the address, RCA Institutes, 350 W. 4th Street, New York. Mr. Harris will explain the factors which yield spectacular gains in stereo listening. An admission charge is made for the AES lectures.

### Taped Off the Air

Thanks to several readers who taped Mr. Truman's speech on February 22nd, we have the words he added to the text released in advance to the press. He said:

"You know, that 5-cent postage stamp goes on that part of the mail that pays its own way. The objective in that is because it's a very painless way to subsidize the slick-paper magazines with their whiskey ads and cigarette ads — it's carry-



### BACH ON LOCATION

At Zwolle, in Holland, in the 15th-century Gothic church of St. Michael is a splendid, four-manual organ, dating from 1720. It is the last organ built by Arp Schnitger, whose work is considered the culmination of the high baroque era of organ building. It was inevitable that so fine an organ should be visited by E. Power Biggs, who has traveled far and wide in search of the most appropriate instruments for his recordings of the great works for organ. Mr. Biggs' many albums of the music of Bach, Mozart and others, performed on centuries-old instruments—in many cases those the composers themselves once used—are among the most impressive achievements of the recording art. To these he now adds three preludes and fugues of Bach, recorded amid the majestic acoustics of St. Michael's.

**BACH AT ZWOLLE:** Prelude (Concertato) and Fugue in D Major ("The Great"); Prelude and Fugue in C Minor ("Arnstadt"); and Prelude and Fugue in E-flat Major ("St. Anne")—E. Power Biggs, organist. KL 5262 \$3.98



### MR. K.'s EXTRAS

"Encore!" is the bracing cry that has roared from the throats of audiences in concert halls, opera houses and theaters for two centuries or more. Unfortunately, in modern times it seldom has any effect whatsoever on the conductor of a symphony orchestra. Unless, of course, the conductor happens to be Andre Kostelanetz. His concerts with the New York Philharmonic, which began in 1954, have enjoyed nothing but standing room and overflow audiences, and invariably arouse the most insistent calls of "encore!" Mr. K., on these occasions, breaks with present custom and responds with courtesy and brilliance. For this recording he has selected some of the most popular of the "encore" pieces played at the end of his Philharmonic concerts.

**ENCORE!:** Works of Wolf-Ferrari, Bach, Granados, Beethoven, Liadov, Walton and Mourant—Andre Kostelanetz conducting the New York Philharmonic. CL 1135 \$3.98



### MUSICAL DOSSIER

This delightful collection offers a surprisingly accurate and complete description of the musical psyche of their chooser—the ubiquitous, multifaceted wit, intellectual and artist: Oscar Levant. He is, we can tell by them, a modern. He is, at times, fiery, at others, deep and tranquil. He knows his dance tempos. He knows the music of the outdoors and remembers the mood of the nursery. These Favorites underscore once more the appeal of the wry, kindly, softly sardonic personality that half hides, half advertises the talent and accomplishments that lie beneath.

**LEVANT'S FAVORITES:** Falla: Fire Dance; Miller's Dance • Lecuona: Malagueña • Poulenc: Pastourelle; Mouvements perpetuels • Albeniz: Tango in D • Debussy: Golliwog's Cakewalk; Maid with the Flaxen Hair; Reflets dans l'eau; La Cathédrale engloutie; Clair de lune; La plus que lente (valse); The Little Shepherd—Oscar Levant, pianist. CL 1134 \$3.98



### MUSIC'S TOP MAN

Eugene Ormandy occupies what is perhaps music's most enviable position—that of politely coaxing the world's most splendid instrument on to more and more exalted heights. Unlike some of his fellow helmsmen who "specialize," Maestro Ormandy can dive into the orchestral repertoire at any point from Bach to Bartok and achieve the same wonderful results. For which reason we like to keep him as busy as possible, recording as great a variety as possible. His latest recordings are evidence of his amazing versatility, and of his inalienable right to the title of "top man of the top orchestra."

**SMETANA:** The Moldau • **WEBER:** Invitation to the Dance • **LISZT:** Mephisto Waltz • **BERLIOZ:** Minuet of the Will o' the Wisps, Dance of the Sylphs and Rakoczy March—the Philadelphia Orchestra • Eugene Ormandy, conductor. ML 5261 \$3.98  
**DELLO JOIO:** Variations, Chaconne and Finale • **VINCENT:** Symphony in D—the Philadelphia Orchestra, Eugene Ormandy, conductor. ML 5263 \$3.98



10<sup>TH</sup> ANNIVERSARY OF LONG PLAYING RECORDS COLUMBIA RECORDS

"LISTEN IN DEPTH" ON COLUMBIA PHONOGRAPHS

THE SOUND OF GENIUS IS ON HIGH-FIDELITY RECORDS BY COLUMBIA

Still Only \$3.98

A Division of Columbia Broadcasting System, Inc. © "Columbia" ® & ® Marcas Reg. All prices are suggested list. Available in Canada at slightly higher prices.



Above: Enlargement of so-called "bargain" stylus. (Magnified photo)

Below: Enlargement of genuine G-E diamond stylus. (Magnified photo)



All G-E styli come to you in factory-sealed boxes, clearly marked with the General Electric monogram. To make doubly sure, look for the "GE" on the bottom of the stylus assembly.

# The difference can ruin your records!

## INSIST ON A GENUINE GENERAL ELECTRIC REPLACEMENT STYLUS

A G-E replacement stylus is far more than just a needle. It is a precision-built, precision-engineered assembly . . . manufactured within microscopic tolerances . . . scientifically designed to "track" properly for hundreds of hours without audible distortion.

The diamond tips are painstakingly ground to a tiny, rounded point. Damping blocks are made from an exclusive, specially formulated compound which does not "fatigue" or deteriorate with age. Just as important, the positioning of these blocks has been precisely calculated to bring you the smoothest possible frequency response.

G-E replacement styli are designed and built by the same people who developed the famous General Electric variable reluctance cartridges. They are manufactured *only by G.E., for G-E cartridges.* Don't take a chance! Be sure of perfect performance from your General Electric cartridge. Insist on a factory-sealed box clearly marked with the G-E monogram. Sold by leading High Fidelity dealers everywhere. Mail the coupon for our free illustrated booklet.



General Electric Company  
Specialty Electronic Components Dept.  
Section HF, West Genesee Street  
Auburn, N. Y.

HFMS58

Please send me your free illustrated booklet on genuine G-E styli and cartridges.

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ Zone \_\_\_\_\_ State \_\_\_\_\_

GENERAL  ELECTRIC

# YOU NEVER HEARD IT SO HI-FI

## SWEET HARMONY



Such sweet harmony! Superb barbershop ballads by the Mills Brothers. 'All By Myself,' 'Oh How I Miss You Tonight,' plus nine others. DL 8664\*\*

## HOT CHAS



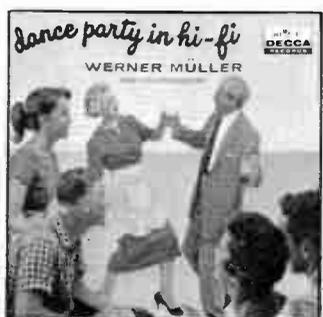
Continuous Latin American Medley! Willie Martinez gives you 'Everybody Loves My Baby,' 'Teach Me Tonight,' 'I'll Remember April,' etc. DL 8694

## MOOD MAGNIFICENT



Exciting music from the film sound track. Lionel Newman conducts the 20th Century-Fox Orchestra. Stunning hi-fi listening! Hear it! DL 8719

## DANCE HI-FI



Dance music for young and old alike. Werner Müller plays 'All The Things You Are,' 'Siboney,' 'Katharina,' 'Dinah.' Superb Hi-Fi! DL 8688†

## MELODIOUS MOZART



Pianist Andor Foldes plays Mozart Concerti No. 21 and No. 17, Berlin Philharmonic. Fritz Lehmann, Paul Schmitz, conductors. DL 9973\*

## CARMEN & COWARD



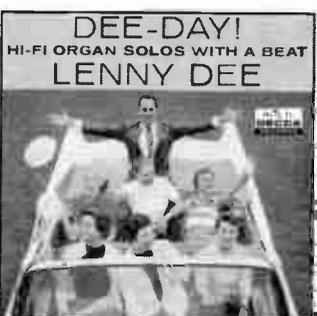
Swingin' Carmen McRae sings Noel Coward classics. 'Mad About The Boy,' 'Poor Little Rich Girl,' plus many more. Bittersweet! DL 8662\*\*

## MARVELOUS STREICH



Soprano Streich sings Schubert, Strauss, Wolf, Milhaud, Nicolai, folk songs. Erik Werba, pianist. A memorable Streich song recital! DL 9972\*

## ORGAN DEE-LIGHT



He's done it again! The incredible Lenny Dee plays madcap hi-fi organ solos with a beat: 'Cecilia,' 'Oh, Lady Be Good!' and more! DL 8628\*\*

## FINE "UNFINISHED"



The Berlin Radio Symphony Orchestra under Ferenc Fricsay plays Schubert's Symphony No. 8 and the Brahms Variations on a Theme By Haydn. DL 9975\*

†Polydor® Series

\*Recorded In Europe by Deutsche Grammophon  
\*\*Available in 45 RPM

® **DECCA**  **RECORDS**  
... **A NEW WORLD OF HI-FI SOUND**

# NOW...

*stereophonic*

# HIGH FIDELITY

*components*

*by*

# Pilot



**SP-215**  
Stereo Preamp  
\$189.50



**SM-244**  
Stereo Preamp  
and Amplifier  
\$189.50

PRICES SLIGHTLY HIGHER IN WEST

For complete details,  
mail this coupon today.

**Pilot** Radio Corporation  
37-06 36th St., L. I. C. 1, New York

Please send literature covering  
Pilot Stereo Components.

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ ZONE \_\_\_\_\_ STATE \_\_\_\_\_

Manufacturer in electronics  
for over 39 years

BQ-5

## RECORDS, TAPE AND FM

*Continued from page 4*

ing them through the mail at a loss. That's what the 5-cent stamp is for."

What Mr. Truman doesn't know is that there are very few "slick-paper" magazines today, and their total circulation is very small indeed compared to the number that do not fall in that special group. If every slick-paper magazine sent through the mail paid double the present rate, it wouldn't make a dent in the deficit due to inefficient management of the Post Office Department. As for liquor and cigarette advertising, some slick-paper publications such as Hi-Fi Music carry none at all!

### Fred Minter

Principal of the Adamston Junior High School at Mt. Clare, W. Va. sent this note with a renewal subscription order: "I have a Music Appreciation Club at school (147 enrolled) and several of our children look forward to your Magazine. Many thanks for the wonderful job you are doing. The best by far in the hi-fi business."

### They Speak English in Russia

It's got to the point where radio listeners in the USA who want to hear correct English grammar and diction tune in Russian short-wave broadcasts. And that's a sad commentary on the quality-control exercised by the owners of American radio stations!

### Lectures on Hi-Fi

Altec Lansing has formed a Speakers Bureau, through which arrangements can be made for lectures and demonstrations before technical or semi-technical audiences. Information can be obtained from H. S. Morris, Altec Lansing Speakers Bureau, 161 Sixth Avenue, New York 13.

### Hi-Fi in England

If you are interested in keeping up with developments in the British Isles, we suggest that you subscribe to *Hi-Fi News*, an excellent monthly published at 99, Mortimer Street, London W. 1. Annual rate is \$4.00.

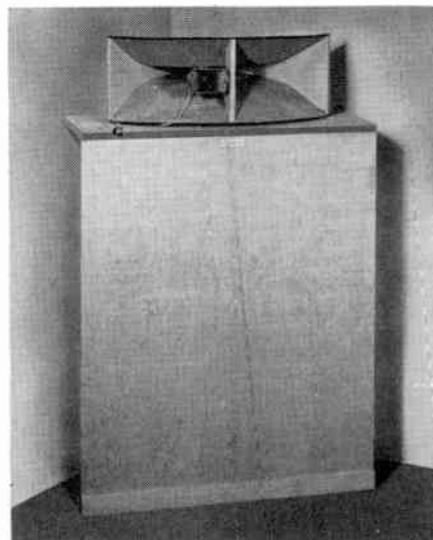
### Bailey's Lucky Seven

"Where did you get that picture on page 16 of the April issue?" Many jazz enthusiasts have inquired about it. If you have wondered, too: it was loaned to us by Riverside Records. They probably own the finest photographic history of jazz music and musicians in this Country.

### Stereo FM in Boston

Bradford Herzog reminds us that eastern Massachusetts now boasts top-quality FM broadcast service, and probably the highest percentage of FM receiver ownership of any area in the U. S. A. Nor is it lagging in stereo FM. Stations WGBH and WBUR,

*Continued on page 10*



WHY A

# Klipschorn

UTILITY SYSTEM  
RATHER THAN  
A KIT



WE ARE frequently asked why we don't sell KLIPSCHORN kits or drawings. But consider the utility model. The price is only \$475 (\$494 with optional new tweeter)—little more than the cost of the components—and yet it is identical with all other KLIPSCHORN systems as a reproducer of sound. With it you are assured of true KLIPSCH design, accurate KLIPSCH construction, and fastidious KLIPSCH standards of performance—backed by the personal responsibility of PAUL W. KLIPSCH.

Our experience with kits for home construction indicates that they should be limited to simpler structures such as our SHORTHORN system. The KLIPSCHORN structure is so complex that it challenges the skills of even our own craftsmen. Not only is the cost of components nearly equal to the finished utility unit but home construction would forego testing. And testing is absolutely essential for component acceptance, proper balance, and final system performance.

With the complete functional KLIPSCHORN system—fully tested—you are assured of a speaker system which is the most accurate sound reproducer ever developed.

Write for descriptive literature and ask for our latest technical bulletins on 3 channel stereo from 2-track tape, adoption of a new tweeter, balancing networks.

**KLIPSCH**  
AND ASSOCIATES HOPE, ARKANSAS

# 1958 HI-FI YEARBOOK

*a Special Issue of*

# HI-FI MUSIC

*for Hi-Fi Enthusiasts  
and Music Listeners*



## Essential Information on Records, Tape, FM, and Hi-Fi Equipment and Installations

To accommodate special information and articles too long for regular magazine issues, Hi-Fi Music has added a special (extra) Hi-Fi Yearbook issue, the largest issue ever published by any magazine in this field.

This is not a reprint book nor an equipment catalog, but a collection of outstandingly important, exclusive feature articles prepared specifically for this Hi-Fi Yearbook issue. Some have required months of research.

In addition, this special issue contains a compilation

of reference data and industry statistics that have never been available before. Thus, this special issue of Hi-Fi Music Magazine, now an annual publication, combines a wealth of fascinating reading with essential information that you will use constantly during the year ahead.

Printed as an ordinary book, it would contain at least 500 pages, and would cost \$6.50 or more per copy. Whether you are a music listener or a hi-fi enthusiast, you'll say: "I must have a copy."

### PARTIAL CONTENTS OF THE HI-FI YEARBOOK ISSUE

#### EDITORIAL SECTION

##### The Importance of Music Listening

A fascinating study that explains what different types of music do for listeners—by Manly P. Hall

##### Evolution of Musical Instruments and Instrumental Music

Relating the invention and development of instruments to the works of composers from the 16th Century Renaissance period to the present day, with lists of records representing each period—by Shirley Fleming

##### 16 Hi-Fi Plans for Hi-Fi Beginners

Descriptions and diagrams of installations ranging from a simple tuner or record-player and an amplifier and speaker, to a radio, record, and stereo tape system. Diagrams show how units can be added progressively.

##### Beware the Hi-Fi Hermeneuts

More and more advertising is being written by Hermeneuts (Greek for interpreter) whose ideas of hi-fi performance bear little resemblance to the facts. Here are simple rules by which the difference between phony and genuine hi-fi equipment can be recognized—by Milton Sleeper

##### 20 Fine Hi-Fi Installations

Illustrated with photographs and diagrams of installations that are as handsome in appearance as they are fine in performance

##### Index of Record & Tape Reviews & Ratings

Listing all records and tapes that have been reviewed in HI-FI MUSIC Magazine since March 1955, each with the reviewer's ratings for the composition, performance, and audio quality

##### How to Plan a Stereo Installation

Covering every step from an explanation of stereo tape reproduction to the details of a complete installation for playing tapes, records, and FM radio—by Milton Sleeper

##### FM Broadcasting in 1943

The complete text of Major Armstrong's testimony before the Senate Interstate Commerce Committee. It is a fascinating story of the radio broadcasting business.

##### Record and Tape Reviewers

Introducing the 28 members of HI-FI MUSIC's board of reviewers, each of whom is a specialist in one or more types of music

##### Stereo: Genuine and Pseudo

A complete report on the latest European Stereo Techniques, and "augmented sound" developments. First-hand information from an American recording engineer who has spent the past year abroad—by David Hall

##### Operation Cleanup

A plan for the hi-fi enthusiast who wants to become popular with his wife!

##### Index of Articles

Detailed, cross-indexed list of articles that have been published in HI-FI MUSIC Magazine since the first issue of March 1954.

HI-FI MUSIC, 105 E. 35th St., New York 16, N. Y.

Please find enclosed my remittance for

- \$2.00 for the 1958 Hi-Fi Yearbook issue  
 \$6.00 1-year subscription to HI-FI MUSIC (11 issues, including the Hi-Fi Yearbook issue)  
 \$15.00 3-year subscription to HI-FI MUSIC (33 issues, including 3 Hi-Fi Yearbook issues)

Name .....

Address .....

.....

# FOR INTEGRITY IN MUSIC...

Some speakers are better than others. Three things make the difference—the manufacturer's conception, his ability to produce speakers that accurately reflect his intentions, and, most important, your personal preference. Stromberg-Carlson designs and makes its speakers so that they are accurate, crisp, and honest. They meet the highest musical standards in their ability to reproduce sound. Hearing is believing. Listen to any of these speakers at your Stromberg-Carlson dealer today.



**RF-460 8" Transducer**

A great 8" speaker. Dollar for dollar, the best high fidelity music reproducer money can buy. Power handling capacity: Program material 18 watts peak. Frequency response: 45-14,000 cps. \$20.00.

**RF-473 12" Diffuse Transducer**

A wide-range, single-cone, high-quality speaker. Diffuse principle for wide dispersion of high and middle frequencies. Curvilinear cone, Alnico V magnet. Power handling capacity: Program material more than 50 watts peak. Frequency response: 30-14,000 cps. \$35.00.

**RF-471 12" Coaxial Transducer**

A dual-magnet, dual-cone coaxial speaker, the very essence of Stromberg-Carlson's conception of speaker design. Power handling capacity: Program material, Woofer—more than 50 watts peak, Tweeter—32 watts peak. Frequency response: Woofer—30 to 2,000 cps. Tweeter—1,500 to 15,000 cps. \$49.95.

**RF-475 15" Coaxial Transducer**

The largest Alnico V magnet in the industry. Every ounce is necessary to produce superior transient response, for sharp, clear, low-frequency sound. Compression type tweeter, unusually clean throughout the range. Power handling capacity: Program material, Woofer—more than 100 watts peak. Tweeter—more than 32 watts peak. Frequency response: Woofer 30-1,500 cps. Tweeter—1,500 to 20,000 cps. \$179.95.

**RF-466 15" Coaxial Transducer**

A dual-magnet, dual-cone coaxial speaker. Dollar for dollar, the finest 15" high fidelity speaker of all. Power handling capacity: Program material, Woofer—more than 100 watts peak. Tweeter—32 watts peak. Frequency response: Woofer 30-2,000 cps. Tweeter—1,500 to 15,000 cps. \$75.00.

## RECORDS, TAPE AND FM

*Continued from page 8*

not content with transmitting music tapes, have carried such features as Halpern's "Mr. Namrev's Descent" and James Noe's "The Exiles", recorded during actual performances.

### It's Made in Norway

In the description of the Tandberg tape machine, which received the Hi-Fi Music Commendation Seal Award No. 40, it was stated in error that these units, are made in Denmark. They are actually manufactured in Norway.

### Any Time Everywhere?

An advertisement by Edward Petry & Company, radio station representations, shows automobiles crossing a huge suspension bridge, and bears the heading: "Any time is listening time, and radio goes everywhere." But who, at any time, can drive over a steel bridge anywhere, and hold AM broadcast signals? Only FM is unaffected by steel bridges and similar structures.

### We're Not Entertained

Anent the editorial in this issue: we were heartbroken at hearing only that Maxwell House coffee can be bought for 79¢ a pound when we tuned in for our long-time friends the Great Gildersleeve and little Leroy. Of course, we're always glad to learn that an ex-AA is leading a useful life but, we'd like to know, is that NBC's idea of evening radio entertainment? It certainly is not ours!

### Bert Cowlan

WBAI program manager has been appointed general manager of this New York station, succeeding Stephen Temmer. Bert Cowlan will be remembered as the announcer of Tallulah Bankhead's "Big Show", and the romantic lead opposite Marlene Dietrich in "Time for Love". Stephen Temmer will devote himself to his Gotham Audio Development Corporation. The post which Bert Cowlan now occupies was held by Douglass Cross, prior to his joining Hi-Fi Music as Music Editor.

### Record Clubs

This comment on the "Hi and the Fi" note about record clubs in our March issue, from A. S. Franklin, Goody Record Club: "Our Board of Selections endeavors to choose, each month, a new list of 25 to 50 new records which is added to an ever-growing list of now close to 1,000 albums. They choose the albums they consider to be the finest recordings of the particular works selected, regardless of the manufacturer. We hope you will make some mention of this in your next issue."

### Sorry, but It's Not So!

An announcement from Transvision, Inc.,  
*Continued on page 12*



**STROMBERG-CARLSON**  
A DIVISION OF GENERAL DYNAMICS CORPORATION



1420c N. GOODMAN STREET • ROCHESTER 3, NEW YORK

**R406 ELSA LANCHESTER SONGS FOR A SMUTTERED PARLOR—A MUST** encore to Elsa's smash hit first album "Songs For A Smoke Filled Room". Witty, sometimes only thinly veiled party songs with appropriate remarks by Charles Laughton.



**R606 VERLYE MILLS HARP WITH A BILLY MAY BEAT.** Big band Billy May pile driver brass with Verlye Mills jazz harp.

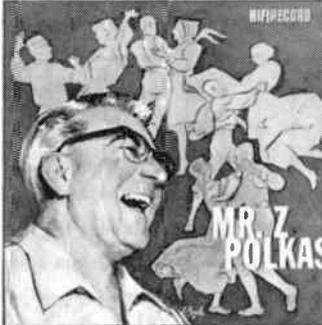


# STEREOPHONIC HIFITAPES HIFIRECORDS

**R716 GEORGE WRIGHT GOES SOUTH PACIFIC—**A new slant on the score from the famous Broadway musical. George Wright's million selling popularity scores another hit on the mighty five manual Wurlitzer Pipe Organ.

Guaranteed frequency response 16 to 20,000 C. P. S.

**R605 MR. Z. POLKAS.** Harry Zimmerman's big band. Polkas with sophistication. Welk won't like this!

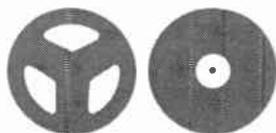


**R801 QUARTERLODEONS.** (Old Time Nickelodeons.) The unique sounds of Jim Hamilton's \$50,000 hobby in hifi!



Reaching the stratosphere in high fidelity realism — a sound that's out of this world!

Every stereophonic HIFITAPE and HIFIRECORD laboratory tested and factory sealed for your protection.



**WE'VE BROKEN THE SOUND BARRIER!**

**R805 JAZZ'N RAZZ MA TAZZ**—Red-hot rhythms from the Roaring Twenties with George Wright's Varsity 5.

**R804 THE END ON BONGOS.** Jack Burger (the end) craziest skin slapper of them all does it with top name group and 26 different drums and native percussions.



**R806 TABOO**—The fabulous, exotic sounds of Arthur Lyman's Hawaiian Village Group recorded in Henry J. Kaiser's aluminum dome structure, Honolulu. #1 BEST SELLING ALBUM IN NATIONAL SALES CHARTS.



**R702 GEORGE WRIGHT ENCORES AT THE MIGHTY WURLITZER PIPE ORGAN**—All-time best selling theater pipe organ recording. Hear the mightiest Wurlitzer of them all—5 manuals! Used as demonstration record by many leading Hifi manufacturers.



**R1000 HIFI VARIETY**—Includes most popular tracks from 14 best selling HIFIRECORD albums. Sensational to show off your Hifi equipment plus a wide variety of musical entertainment.

AT RECORD SHOPS AND HIFI EQUIPMENT DEALERS EVERYWHERE

"The sound that named a company"  
**HIGH FIDELITY RECORDINGS, INC.**  
7803 Sunset Boulevard, Hollywood 46, California

# Smashing

stereo tapes,  
what!

... from "LIVINGSTON,  
I PRESUME"



For "Living Sound" nothing compares with the depth and directional magic of superb Livingston stereo tapes.

## NEW RELEASES!

Lenny Herman Quintet  
FOR ME AND MY GAL .....1103F  
LET A SMILE BE  
YOUR UMBRELLA .....1104F  
Gin Bottle Seven  
FUN LOVIN' JAZZ .....EM75F  
Marty Grosz Honoris  
Causa Jazz Band  
HOORAY FOR BIX! .....EM76F  
1200 ft. (30 min.) ..\$11.95

## LIVINGSTON

Beethoven  
SYMPHONY NO. 2 IN D; EG-  
MONT OVERTURE—Graz Phil-  
harmonic, Miltiades Caridis  
cond. ....4003K  
1800 ft. (45 min.) ..\$17.95

Sam Donahue and Orch.  
BODY AND SOUL .....2012C

Kim Cusack HonkyTonk Piano  
THRU THEM SWINGIN'  
DOORS .....2013C

Teddy Charles  
VIBE-RATIONS .....2014C

Sabicas  
PLAYS FLAMENCO .....2015C

Tchaikovsky  
CAPRICCIO ITALIEN  
Graz Philharmonic  
Gustav Cerny, cond. ....2016C

STEREO SHOWCASE:  
VOLUME 4 .....  
Brilliant excerpts from the lat-  
est Livingston releases .....LS6C  
600 ft. (15 min.) ..\$6.95

Reel  
Party  
Fun!

"Talent scout" yourself and friends with this "Add-The-Melody" Tape! Popular organist Hack Swain plays the accompaniment to oldtime, Irish, college and barbershop classics while you supply the melody. Record your performance—play it back on stereo! Can be used over and over. \*Pat. Pend.

Full 1200 ft.—100F—\$11.95

LIVING SOUND FROM

# LIVINGSTON

LIVINGSTON AUDIO PRODUCTS CORP.  
DEPT.  BOX 202, CALDWELL, N. J.

## RECORDS, TAPE AND FM

Continued from page 10

of New Rochelle, N. Y., states that their "Dual-Amp stereophonic amplifier enables ordinary records, tape, or FM radio to give stereophonic reproduction." Also, "Existing equipment can be inexpensively converted to stereo, and ordinary records and tapes can be used for this purpose by simply replacing the amplifier with the Transvision 'Dual-Amp' and adding an inexpensive speaker."

Operation is described in this way: "The electrical impulse from an ordinary record-changer, or tape recorder, or radio is fed into the Transvision 'Dual-Amp' Stereophonic Amplifier . . . The low frequencies are channeled through a section which amplifies and changes the tonal response as desired, and sends these impulses to a low-frequency speaker system. The higher frequencies are similarly treated by the other section of the 'Dual-Amp' and then sent into a high-frequency speaker system . . . The net result is a realism which duplicates that of special stereo records and tapes."

Sorry, but this system does *not*, and cannot duplicate reproduction from stereo records and tapes! This system apparently contains a frequency dividing network such as has been in use for monaural reproduction since 1952. No system can deliver stereo performance unless it operates from two separate channels. There is no way to get the "equivalent" of stereo from a monaural source!

### FM Listens and Cadillac Cars

When Cadillac's advertising agency told WITH-FM that they had no proof of correlation between appreciation of good music and the higher income brackets, the Baltimore station sent letters to 2,000 listeners, to get first-hand information. Answers totalled 60%, a high figure for such a survey. Results: 90% have incomes over \$5,000; 67% over \$7,000; 40% over \$10,000. We don't know how this compares with the TV audience, but the question reminds us of a remark we heard the other day: "God loves the poor. He gave 'em television."

### Custom Stereo Disc Cutting

Studios and equipment for cutting stereo discs with a Westrex 3A are now available at Radio Recorders, Hollywood, Calif. This is the first company to offer such facilities for custom recording.

### Minter Stereo Discs

Don't write off the Minter method of stereo cutting and playback. It has definite advantages, not the least of which is that Minter discs are *completely* compatible. A monaural pickup is used for both monaural and stereo, and the two channels are combined on monaural reproduction, for the Minter system employs lateral motion with no vertical component.

# \* audiofacts

## You can record and interpret satellite signals

What are the satellites saying? From the limitless void of outer space, their radio voices are continuously sending out coded data on the conditions which they encounter — cosmic rays, meteorites, temperatures and other phenomena of great value to our understanding of the universe in which we live.

A tape recorder, an FM radio receiver and a little ingenuity are all you need to receive and record these radio signals from outer space — and perhaps make a valuable contribution to our satellite program.

Although official tracking and recording stations have been set up at many points around the globe, there aren't enough of them to cover every point on each orbit. And amateur recordings, from widely scattered locations throughout the country could very well pick up information available from no other source.

With a few simple modifications that anyone can make, you can adapt your home FM receiver or communications receiver to bring in the signals from the Explorer and Vanguard satellites. What's more, by recording them at a high tape speed and playing back at a lower speed, you can actually understand much of what the satellites are saying!

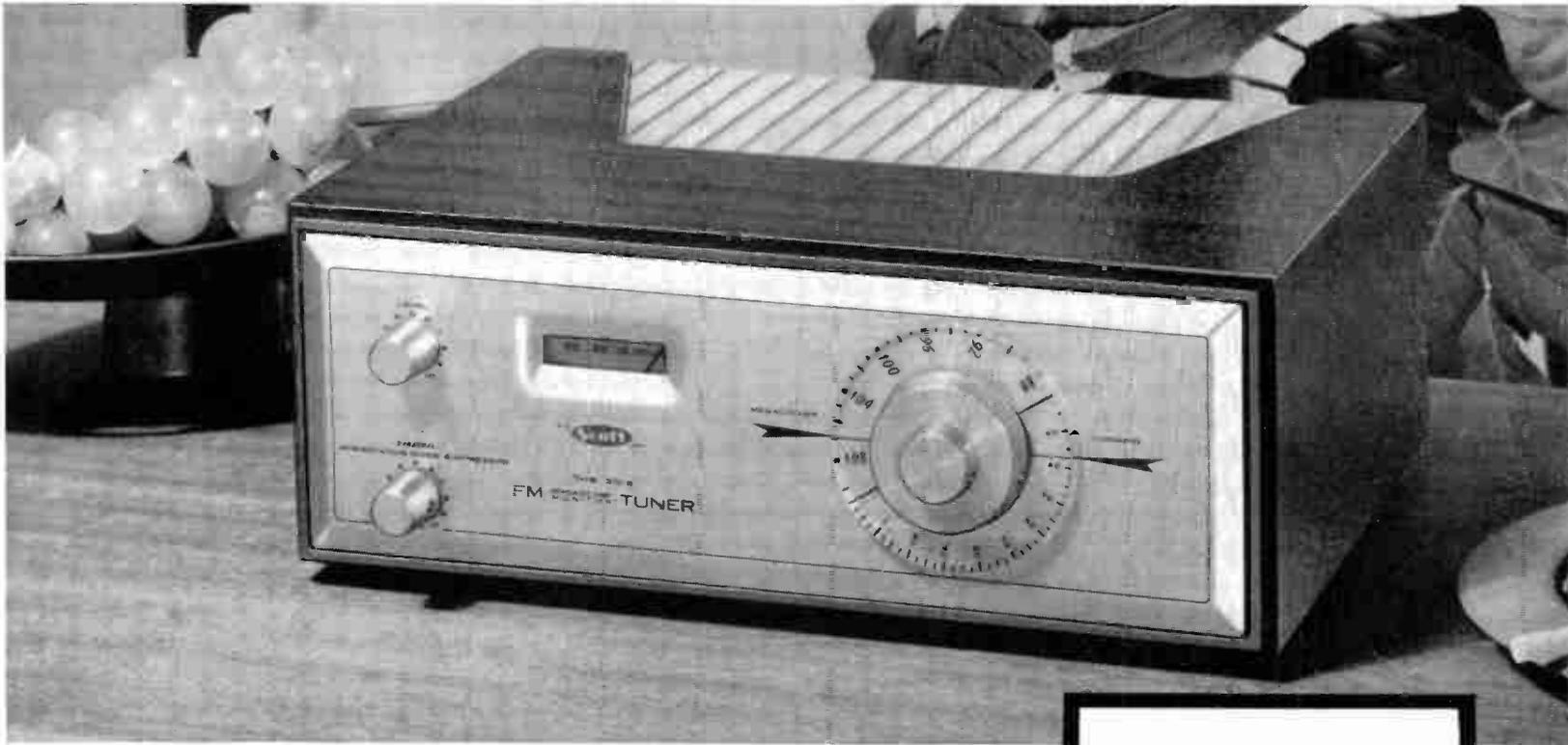
How to do this is fully explained in our new booklet, "You Can Record the Satellites." It tells you how to modify your equipment to receive, record and even interpret the satellite signals — and how to make your recordings available to the proper authorities in the satellite program. Ask your Audiotape dealer for a copy of this 12-page booklet. Or send 10 cents, to cover the cost of handling and mailing, to Dept. AM, Audio Devices, Inc., 444 Madison Ave., New York 22, N. Y.

\* one of a series

## Hi-Fi Music at Home

Here are the Features That Make the H. H. Scott 310-B the

# BEST FM TUNER



H. H. Scott 310-B Tuner shown in handsome mahogany accessory case.

**ONLY** the 310-B was rated outstanding in all respects by a leading consumer testing organization.

**ONLY** the 310-B *limits fully* on random noise. This means true high fidelity FM performance on even the weakest signals.

**ONLY** the 310-B has 85db cross-modulation rejection. This means you can listen to weak stations even though strong signals are nearby.

**ONLY** the 310-B will maintain audio output voltage constant within  $\pm 1.5$ db, even though signal strength may vary from 1.5 microvolts to 1 million microvolts. This means you never have to re-adjust volume level.

**ONLY** the 310-B can perfectly separate a weak station from one in an adjacent channel that is up to 15db stronger.

**ONLY** the 310-B will stay tuned, without drift or "pull" when set to a weak signal adjacent to a very strong one. This feature is essential for good performance in crowded signal areas.

**ONLY** the 310-B will reject an unwanted signal or interference that is only 2 1/2db weaker than the desired signal. Strong interference can come from a TV receiver or another station on the same channel. The 310-B will reject this interference.

**H. H. Scott Engineering Department  
STATEMENT OF GUARANTEE**

All the statements regarding the performance of the 310-B tuner are backed up by laboratory measurements available for inspection at the H. H. Scott engineering department. The 310-B will outperform any tuner. It will work in the most difficult locations, where other tuners fail.

*Daniel P. von Recklinghausen*

Certified: *D. von Recklinghausen*  
Chief Research Engineer

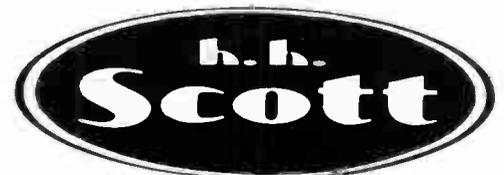
**H. H. SCOTT TUNER SETS  
NEW DX RECORD!**

The Apparatus Development Company, Manufacturers of the FM/Q FM Antenna reports the Scott consistently receives signals from a distance of 510 miles. This is the best record for any FM tuner in their files.

**Additional Specifications:**

Sensitivity 1.5 microvolts on 300 ohm input for 20db of quieting. Three IF stages; Three Stages of Limiting; Broadcast-type signal strength meter; Interstation Noise Suppressor; Multiplex output. Price \$189.95. *Prices slightly higher west of Rockies.*

*Case extra.*



**H. H. Scott Inc. 111 Powdermill Road, Maynard, Mass.**  
Export : Telesco International Corp., 36 West 40th Street, New York City

*RUSH me my free copy of your completely new catalog M-5*

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

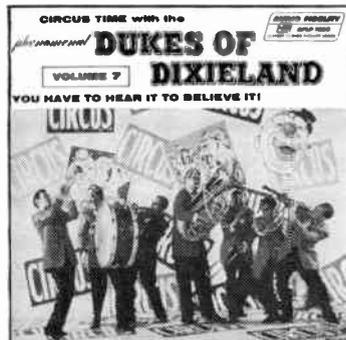
WorldRadioHistory

mail  
coupon  
now!





AFLP 1881 \$5.95



AFLP 1863 \$5.95



AFLP 1857 \$5.95



AFLP 1867 \$5.95

*So many exciting new records in  
the Audio Fidelity catalog!  
We just can't show them all  
... please write for catalogs.*



**AUDIO FIDELITY INC.**

Dept. HM-5, 770 Eleventh Avenue, New York 19, N. Y.

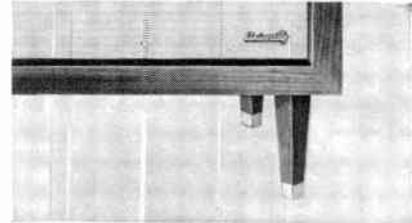
\*REG. APP. FOR

UNIVERSITY INTRODUCES A VERSATILE NEW LOWBOY...

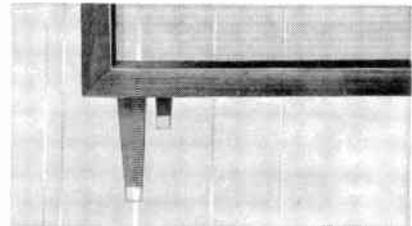
# The Debonaire



The smallest lowboy (only 27 $\frac{1}{2}$ " wide, 16" deep, 25 $\frac{1}{2}$ " high, including legs) for 2- or 3-way systems using 12" or 15" speakers. Designed to complement both traditional and modern decor.



MODERN decor is accommodated by adjustment of the legs to this triangular position.



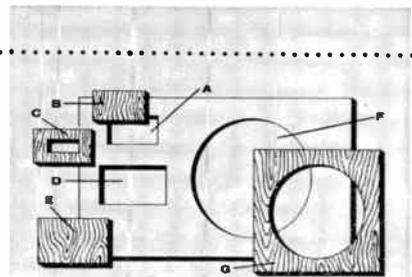
TRADITIONAL decor is accommodated when the legs are set "flat" in this position.

## BRILLIANT NEW SYSTEMS AND ENCLOSURE

**EN-1215 DEBONAIRE ENCLOSURE** Designed for full-range reproduction, the EN-1215 DEBONAIRE enclosure employs the phase inversion principle to augment low frequency response. For versatility, it integrates direct radiation principles to permit using a wide variety of extended range speakers and 2- and 3-way Diffaxials. The versatile baffle board arrangements accommodate the many multi-speaker systems that may be developed with P·S·E—University's Progressive Speaker Expansion plan. P·S·E enables you to start modestly with an extended range speaker for immediate listening satisfaction and build up at your own pace to any one of a number of magnificent sounding speaker systems.

**MODEL S-3 DEBONAIRE-12 SYSTEM** This system, employing the same 3-way system components so successfully used in the University SENIOR, now makes this highly popular combination available to music lovers in both corner (SENIOR) and lowboy (DEBONAIRE) form. The basic C-12W 12" woofer (less frequency limiter) is ideally suited to the EN-1215 enclosure, reproducing deep bass tones cleanly and efficiently. Mid-range is covered by the new, improved H-600 "reciprocating-flare" horn with T-30 driver; treble range by the UXT-5 Super Tweeter clear out to 17,500 cps. The N-3 Acoustic Baton 3-way network crosses over at 700 cps for mid-range, 5000 cps for treble. PRESENCE and BRILLIANCE balance controls provide optimum adjustment to room acoustics and personal taste.

**MODEL S-4 DEBONAIRE-15 SYSTEM** An excellent three-element system with a unique approach to mid-range reproduction is achieved in this version of the DEBONAIRE. A 2-way 15" Diffaxial, the Diffusicone-15, is employed together with the new H-600 horn and new Hypersonic T-50 driver. The H-600, with hemispherical diffraction added, complements perfectly the T-50 driver to cover the mid and high ranges from 700 cps crossover to inaudibility. The Diffusicone-15 provides superior bass response to about 1000 cps where its multi-sectional Diffusicone element takes over for mid and high frequency response. With thus both the Diffusicone element and the horn/driver combination providing wide-angle response of the mid-range, this three-element system results in an expansion of spatial separation and an exciting blend of reed and woodwind mellowness (from the Diffusicone element) with the brightness of the brass (from the horn/driver). A balance control adjusts the system to room acoustics and personal taste.



EN-1215 BAFFLE BOARD AND ADAPTERS

- A—Hole for tweeter Model HF-206 or 4401.
- B—Adapter blank to close hole A when tweeter not used.
- C—Adapter for Model UXT-5 tweeter.
- D—Hole for mid-range (Model H-600 horn).
- E—Adapter blank to close hole D when mid-range unit not used.
- F—Hole for Diffaxial Models 315-C, 6303, Diffusicone-15; woofer Models C-15W, C-63W.
- G—12" adapter (supplied) for Diffaxial Models 312, UXC-123; Coaxial Models 6201, Diffusicone-12, UXC-122 or Model 6200; C-12W woofer.

### USER NET PRICES:

Finish	EN-1215	S-3	S-4
Mahogany	\$63.00	\$196.00	\$197.50
Blond	69.00	199.00	200.50
Walnut	69.00	199.00	200.50

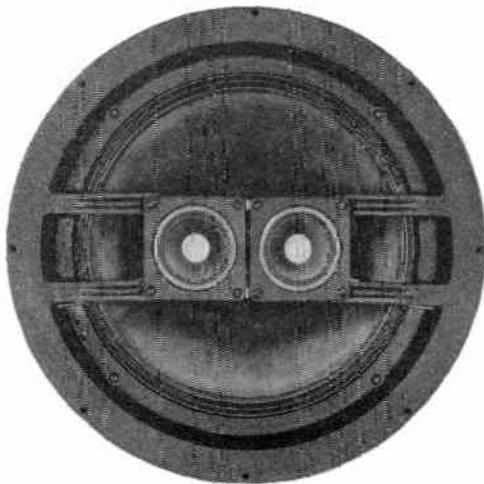
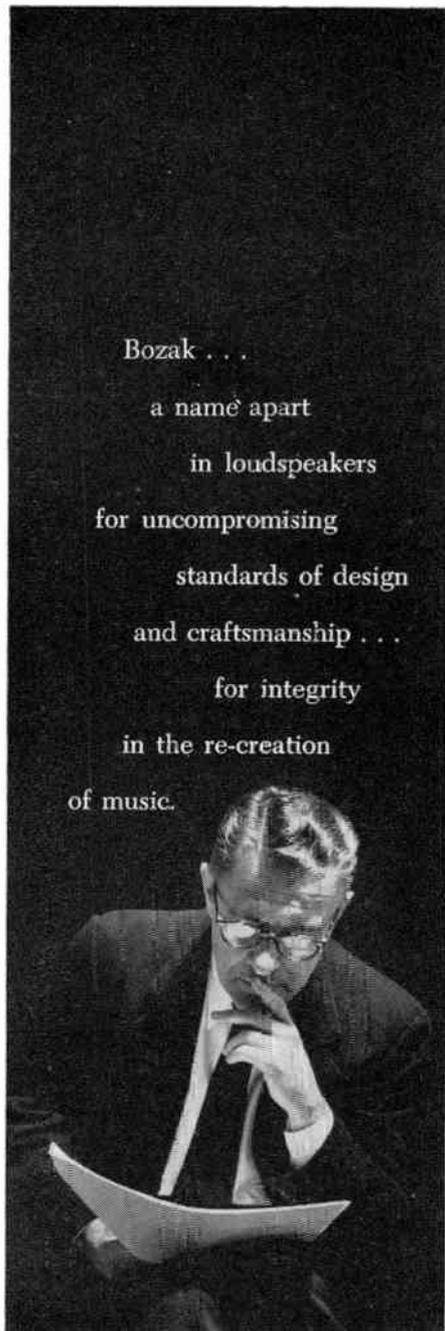
LISTEN

University sounds better



See your high fidelity dealer . . . or for FREE LITERATURE on University speakers, complete systems, enclosures and kits, write Desk N-3, University Loudspeakers, Inc., 80 So. Kensico Ave., White Plains, N. Y.

Bozak . . .  
a name apart  
in loudspeakers  
for uncompromising  
standards of design  
and craftsmanship . . .  
for integrity  
in the re-creation  
of music.



Hear the Bozaks at a franchised Bozak dealer/write for literature/The R. T. Bozak Sales Co./Darien, Conn.



*Milton Sleeper discusses*

## MUSIC IN YOUR HOME

WITH deep regret, we must inform you that the radio program you have just heard marks the end of operations over this network." Such an announcement may be heard more than once before the last page is torn from 1958 calendars. For it's no secret in broadcasting circles that ABC, CBS, and NBC haven't found a formula for turning their current radio network losses into profits, and those losses, now running into millions of dollars, add up to a crash situation.

In 1948, when television stole the show, revenue from radio network time sales began to drop. FCC reports show a decline from \$133.7 million in '48 to \$44.8 million in '56.

Ten years ago, the networks, in the course of promoting their TV time sales, sold radio down the river, even to the point of predicting that television might replace radio broadcasting entirely.

So the big advertisers who had sponsored the fine radio programs we used to have shifted to television, and revenue from radio dropped off. To keep the stations on the air, payrolls were cut, and more and more cheap substitutes were run in to replace the good shows. Today, independent stations can put on programs as good as, and more consistently good than, those originated by the networks!

At the recent Disc Jockey Convention, Mitch Miller said: "Gathered under this roof are a great many men of fantastic skill, taste, and imagination. You caused radio to jump out of bed and click its heels a few years back, while the public was dressing for the funeral. You made radio once again a vital force on the American scene, a source of first-rate entertainment, and — best of all — you made it pay. But what's been happening in the last year or two?

"You carefully built yourselves into the monarch of radio and then you abdicated — abdicated your programming to the corner record shop; to the 8-to-14-year-olds; to the pre-shave crowd that makes up twelve percent of the Country's population, and zero percent of its buying power. I know that most of you agree with me that much of the juvenile stuff pumped over the air waves these days hardly qualifies as music. But your standard answer is: 'We're not here to educate. We're here to give them what they want.'

"What *who* wants? Certainly not the seventy-five per-

cent of the nation over fourteen years old! If they did, they wouldn't be buying hi-fi record-players in unprecedented numbers, setting them up in their living rooms, shutting off their radios — and creating their own homemade programming departments!

"Certainly not those who want variety, musicianship, a little bit of literacy, and a bit more sophistication in their music. And, gentlemen, that's the majority."

Mitch Miller addressed those comments to an audience made up principally of disc jockeys from independent radio stations, but what better entertainment is being provided by the networks?

News on the hour and half-hour is no substitute for entertainment. Interviews and roundtable discussions of public affairs with important people have their place, but they can be as tiresome as those so-called variety shows which repeat *ad nauseam* the formula: A. some remarks intended to be smart-and-snappy about what is coming next; B. "But first hear this!"; C. a raucous commercial or an offensive announcement about something such as "your golden liver bile" and then; D. remarks by a singer with a very poor speaking voice, followed by a record he or she made, or an interview with someone who tells about something in a dull and awkward manner.

Imagine what would happen if one of the Broadway critics should deliver his opinion of an evening's network programs! Chances are that will never happen, for no one will pay what a top critic would ask for such a stint of listening.

Independently-owned stations affiliated with a network enjoy a theoretical advantage because the network *can* sell time for them, and *can* provide programs of outstanding character that no single station could originate. But today, no network wants to sell radio time where it can sell television time to the same sponsors at higher rates. And if a network should develop a new radio program sufficiently entertaining as to draw people away from television, it would be competing with itself!

If this is an over-simplification, it still explains why the networks are no longer important to listeners, and why, in many areas, the best radio entertainment is now heard from radio stations whose owners are not engaged in TV broadcasting, and particularly from those FM stations programmed specifically for mature audiences.

# For a greater measure



PHOTOGRAPH BY ROBERT W. MITCHELL

# of listening pleasure...

play your records with the  
incomparable *FLUXVALVE*®



Exclusive built-in hum-rejection circuit...requires no adjustment!



Exclusive "T-GUARD" stylus assembly...no precarious fingernail fumbling!



Low feather-touch tracking pressure, preserves the quality and prolongs the life of your records.

**\*Important Quality Features,**

no necessary for high fidelity reproduction from records.

PICKERING'S truly miniature FLUXVALVE magnetic phonograph cartridge represents the *newest* concept in high fidelity cartridge design since PICKERING introduced the *first* really lightweight high fidelity pickup more than a decade ago.

You get a *full measure of listening pleasure*... because the FLUXVALVE has a full range response, flat within 2 db, from 10 to 30,000 cycles. Hermetically sealed, the FLUXVALVE is impervious to any and all of the elements... heat, cold, humidity, etc. Moreover, the FLUXVALVE has the exclusive PICKERING *hum rejection* circuit built-in, assuring hum-free performance.

PICKERING'S "T-GUARD," the newest and safest idea in a stylus assembly, is incorporated in all FLUXVALVE models. Change of stylus is done quickly and easily with the comfortable grip of the "T" shaped assembly... *no precarious fingernail fumbling*... you are always sure the stylus is correctly seated. *The most flexible cartridge in the world*, the FLUXVALVE is the *only* cartridge with the *amazing* 1/2 mil stylus, and it can be used with *five* interchangeable styli to play any record, at any speed.

Only the FLUXVALVE has 100% IQF\*, and it may interest you to know that because of its ability to make *precise* and *reproducible* record measurements, the FLUXVALVE is used for calibrating recording channels and record masters.

**BUILD UP THE QUALITY OF YOUR HI-FI SYSTEM WITH A PICKERING FLUXVALVE**

**FLUXVALVE TWIN SERIES 350**—A turnover cartridge providing a rapid change of stylus point radius. Available in 12 models featuring many combinations of styli, prices start at a modest \$24.



**FLUXVALVE SINGLE SERIES 370**—A miniature high quality cartridge for use in any type of auto-changer or manual player arm. Available in 5 models, prices start at a low \$17.85.



**Model 194D UNIPOISE Pickup Arm**—This new... lightweight... integrated arm and cartridge assembly containing the FLUXVALVE with exclusive "T-Guard" stylus—is only a fraction of the weight of conventional tone arms. High compliance and single friction-free pivot bearing assure distortionless tracking of



microgroove and standard groove recordings. Available with the 1/2, 1 or 2.7 mil diamond stylus. Prices from \$59.85.

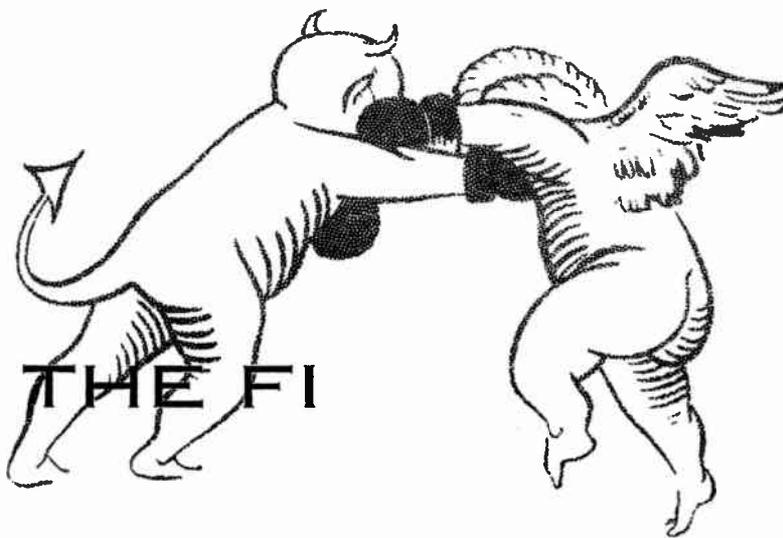
*For those who can* hear *the difference* FINE QUALITY HIGH FIDELITY PRODUCTS BY

**PICKERING & COMPANY, INC., Plainview, N. Y.**

Enjoy the quality of a FLUXVALVE at your favorite Hi-Fi shop today... you can hear the difference. For the dealer nearest you or for complete literature write to Dept. X-58



# THE HI AND THE FI



**The Boom Heard 'Round the World:** In the 1958 edition of a pamphlet entitled *Concert Music U. S. A.* (distributed to musical organizations by Broadcast Music, Inc.) there are a number of quite amazing statistics that give the lie to the old saw that America is ensconced in a provincial back-seat as far as musical culture is concerned. Perhaps the most eye-catching statement in this survey is: "Of the approximately 2,000 symphony orchestras in the world, 1,055 (more than half) are in the United States! There were less than 100 U. S. symphony orchestras in 1950, and only 10 in 1900." Here are some more facts pertaining to the radio and recording fields that I've culled from this informative little booklet:

In 1957, Americans spent more money for the purchase of recordings of concert music and hi-fi equipment on which to play them than they did on all spectator sports. About \$240 million was spent on spectator sports last year, about \$80 million was spent for concert recordings, and more than \$166 million went for the purchase of hi-fi phonograph and tape equipment, and FM radios.

There are more radio sets in operation today (135 million of them) than ever before in broadcasting's 37-year-old history, and the average American family listens approximately 15.4 hours per week. To give some idea of the tremendous audience for concert music available to radio: more people hear each Sunday broadcast of the New York Philharmonic than could have been jam-packed into Carnegie Hall in 110 years.

This fifth annual survey conducted by BMI among broadcasting stations revealed that 1,273 radio stations programmed a weekly total of 8,780 hours of concert music; 555 have announced that they intend to increase their use of serious music.

Returning to recordings, *Concert Music U. S. A.* states that sales of classical discs have soared to where they now account for an astonishing 35% to 40% of the industry's total business. In 1946, "long-hair" music represented only 15% of all record sales. In 1940 there were two U. S. companies manufacturing concert records — Victor and Columbia. The March issue of the *Schwann LP Catalogue* has 9,981 listings

of classical music on 303 record labels devoted to 718 composers! Of these, 330 are contemporary and 165 are American. In 1934, a recording of the Beethoven *Ninth Symphony* did well if it had a total sale of 500 copies. By 1954, Toscanini's two-year-old recording of the *Ninth* had found 148,993 buyers and still gives no evidence of losing its sales momentum.

And so the Fi flies Hi-er and Hi-er! Not since the advent of LP's ten years ago has there been so much excitement in the record industry as there is these days, sparked by the intriguing potentialities of the brand new stereo discs. And with the estimate by the Institute of High Fidelity Manufacturers that the total 1957 volume of audio components business increased by over \$34 million, who knows where the soaring star of hi-fi will find its orbit?

**Angel's Loss, Victor's Gain:** When the management and distribution of Angel records was taken over by Capitol the first of the year, it appeared for a while that the Sorias — Dario and Dorle — were left out in the cold. Theirs were the inspired hands that molded Angel production and repertoire into the standard which set the pace for the industry as far as classical recordings were concerned. And so it's particularly pleasing to have the announcement from George Marek that Mr. and Mrs. Soria have been engaged to create a special series of "gala classical recordings" for RCA Victor. The Sorias are in Europe now, in quest of repertoire and artists, as well as to assist Gian Carlo Menotti with the Festival of Two Worlds which they helped him organize and that is scheduled to open in Spoleto, Italy, June 5th. The first of their series of recordings for RCA Victor will probably be released early in 1959.

**Built-in Woofers and Tweeters:** Until the last three years or so, the Mighty Pipe Organ — both baroque and theatre — seemed threatened with almost certain extinction along with the Whooping Crane. But hi-fi has come to the rescue, at least as far as the organ is concerned, and now the walls and floors of the homes housing organ-record enthusiasts all over the Country are trembling as thrillingly

as the ancient stones of Westminster Abbey. For sheer sound and range, no other instrument can deliver the overwhelming tumult of which these monsters of organized hurricanes are capable and, under the control of a true virtuoso, the organ is a beautiful sounding instrument indeed. However, there are certain practitioners making organ records today, especially in the popular field, who should not be allowed to turn the crank of a hurdy-gurdy.

Be this as it may, Mirrosonic Records, Ltd., announces the release of "The First International Congress of Organists", a series of six LP volumes documenting the musical proceedings of the famous Congress held in London during the summer of 1957. The production of these records creates a number of "firsts" in the organ music world; last summer was the first international event of its kind ever held and, notably for the first time in history, an American woman, Marilyn Mason, was permitted to play the organ in Westminster Abbey. Of the thirty-four concerts, twenty-four were recorded by Mirrosonic. Volume I highlights Miss Mason's performance with the Harvey Phillips Orchestra. The volumes also includes Leo Sowerby's *Classic Concerto*, the composer conducting, Seth Bingham's *Connecticut Suite*, a recital by Gerald Bales on the giant Westminster Cathedral organ, and Sir William McKie's closing address.

**Farewell To a Great Tradition:** I have accepted with sadness and premeditated nostalgia the announcement that the CBS radio concerts of the New York Philharmonic will be aired on Saturday nights beginning next fall. For twenty-eight years they have remained a Sunday afternoon radio institution, and they were a comfort and a consolation in this changing world. Even during the darkest days of World War II they were there to give the heart sustenance and hope from the moment, that blood-chilling Sunday, when the concert was interrupted to announce "Pearl Harbor." No, to me the program will not sound the same on Saturday night. Somehow it had seemed that as long as there was radio, there would always be *The Sunday Philharmonic*. — DOUGLASS CROSS



For more than eight years, Franz Rupp accompanied the master violinist Fritz Kreisler



Marian Anderson and Franz Rupp share such a musical understanding with one another that they have appeared together in over a thousand concerts throughout the world

## Let's Make Music Together!

Accompanist Franz Rupp Is a Great Artist in His Own Right — by Sara Given Rockey

**F**RANZ RUPP makes a living by playing the piano. He accompanies the greatest artists, is applauded by audiences around the world, and is received by kings and queens and presidents. Sounds easy? "It's hard work," he declares, "as fatiguing as heaving cement bags. But I love it."

Most likely you've heard him on the concert stage or on records when listening to the incomparable Marian Anderson or the master violinist, Fritz Kreisler.

Fritz Kreisler said of him, "Franz Rupp is one of the most gifted pianists in the world." "His musicianship is superb," praised Marian Anderson.

Each time he accompanies a singer or an instrumentalist, he feels all the hard work is worth while if only to assist this particular artist in accomplishing his best. It is as though he says to the soloist from the bottom of his musical heart, "Let's make music *together*."

Certainly he's tied to the piano strings. Everyday such a music-workman as Mr. Rupp must practice hour after hour. Even on a recent summer vacation, Franz Rupp had a piano put into his mountain cabin near Evergreen, Colorado, for practicing. He did take a little time out for hiking with his wife, his stiff new bluejeans rolled 'way up, for he is short. But while going along a mountain trail with the pine breezes blowing his dark hair and the sun reddening his high forehead and well-shaped nose, he was

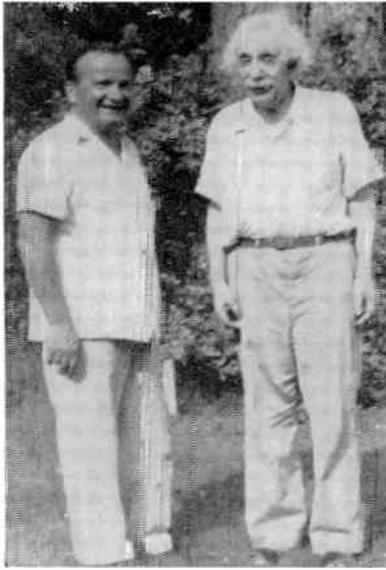
more likely than not practicing a new recital in his mind.

And then, an accompanist has more than his share of trying times. "Once while touring in South America with Mr. Kreisler," Mr. Rupp said, "we flew to Montevideo for an extra concert at the invitation of the President of Uruguay. After concertizing, we stayed up the rest of the night since our plane left at five in the morning for Rio. Although the middle of June, it was winter there and bad weather. Because we had to make an unscheduled landing, we didn't come down in Rio until eight that night. The concert was to begin in half an hour.

"We weren't a bit surprised that the floor of the stage was weaving under our feet," the accompanist continued. "No sleep the night before and fifteen hours in that lurching plane. But were we stunned to discover that we could not hear one another play! We were deaf from the constant roar of the plane. After the concert, could we go to bed? No. We climbed into another plane, off again for another concert."

Mr. Kreisler first chose the young Franz Rupp for his accompanist to record the entire series of Beethoven's sonatas for the Beethoven Society of London. Franz Rupp played for Fritz Kreisler for eight years.

In spite of his crowded schedule, Franz Rupp goes to all the parties he can and enjoys them *con abbandono*, and edges in every bit of sightseeing possible. For all his



Dr. Albert Einstein was a walking companion and friend of Mr. Rupp's for years. The physicist was an amateur violinist

On their concert tour through Southeast Asia for the State Department, little Japanese girls gave mimosa and jasmmin to the musical ambassadors



ability and fifty-one years, he reminds one of a lively mischievous boy with overflowing energy and inquisitiveness. There is the profoundly serious side, too, for this accompanying job requires it.

"An accompanist must go beyond the abilities and aptitudes of a pianist in some respects," Mr. Rupp says. "It is a make-or-break essential that he have thorough understanding and sympathy with the soloist, comparable to the understanding and sympathy of a conductor with his symphony orchestra."

The accompanist must anticipate any change of mood in the artist. He thinks, feels, breathes with him. He dares not relax. His sensitive ears must be sharply alert so that he can catch his partner if the soloist falters over a false note, misplaced breath, or a forgotten phrase — and cover up for him. Of course, an accompanist must read easily at sight and transpose. He must know languages. One night, he may play for a soprano; the next evening, a baritone. Each may sing the same song but with different nuances and in different keys. Franz Rupp does not follow, neither does he lead. He and the solo artist go along all the way together.

The first time he played for Marian Anderson was in 1940. Miss Anderson's accompanist became suddenly ill and Mr. Rupp, in response to an urgent phone call, rushed from New York to St. Louis. Marian Anderson and Franz Rupp had never made music together before. They had a hurried half hour rehearsal before the concert.

Then and there they established such a musical understanding that for seventeen years they have continued to make music not for hundreds of thousands, but admiring millions, on records and on stage. They have appeared in more than a thousand concerts. Their travels rival those of Secretary of State Dulles. In 1957 they covered 40,000 miles through seven countries in Southeast Asia on behalf of ANTA and the State Department. Perhaps you saw it on television or have heard the RCA Victor sound track.

Between tours, Franz Rupp accompanies other artists. Although small in stature, an active and sturdy man is this



Miss Anderson and Mr. Rupp were invited to make music for the high Buddhist Priest of Japan, Count Olani, and his wife, sister of the Empress. They also gave a concert for the Empress herself

accompanist. He has a cabinet full of medals and gifts, and a memory full of experiences. When he tells of an episode, he *accelerandos*, moves to the edge of his chair, then *crescendo*, he bounces *agilemente* to stand in the middle of the floor, where he talks with wide, emphasizing gestures.

He tells about concerts as close as twenty-five miles to the fighting in Korea. "I accompanied Miss Anderson as she closed her eyes and sang, *He's Got the Whole World in His Hands*. Surprisingly, the boys wanted to hear *My Heart at Thy Sweet Voice* from 'Samson and Delilah' as an encore!"

In Japan, an entourage of eight took care of the music-ambassadors. Little Japanese girls presented them with heavily scented mimosa and jasmine. By invitation, they gave a concert for the Empress and members of the Imperial Household, and another for Count Olani, the highest Buddhist priest in Japan.

Back home, they sang and played for President and Mrs. Eisenhower, by invitation, in the White House. Others, like the President, praise Mr. *Continued on page 56*

# Which Music Critic Do You Read?

*Douglass Cross Discusses a Letter from One of Our Readers  
Who Presents Specific Evidence of the Conflict Found Fre-  
quently in Reviews by Different Record Critics*

ONCE IN AWHILE a letter arrives at the Music Editor's desk containing such gentle reasonableness and genuine objectivity that it seems important to share it with our readers *in toto*. The following communication is from Ralph Auf der Heide, of Altadena, Calif.—a manufacturers' representative handling audio components—who explores a very real problem to all record collectors relying upon reviewers' columns for assistance in building their libraries.

"In the February, 1958 issue of HI-FI MUSIC AT HOME, there is a review by Alfred Kaine of the Angel recording 35466, Tchaikovsky Symphony No. 4, Conducted by Igor Markevitch. The rating is A-C-C and Mr. Kaine states:

'Were any enumeration of the liberties taken here to be attempted, the total would consume the entire page. Tasteless, offensive, and lacking logic, Markevitch's utter disdain for Tchaikovsky's indicated wishes as to tempi, phrasing, and rhythm reveal a compulsive musical ego of uncommon brazenness. Angel has strangely distributed only the first movement on side one, and crammed the remaining three on the reverse, which probably explains the pre-echo throughout the second side. Its reproduction evinces altogether too much evidence of monitoring. In sum, a travesty of distortion. Avoid!'

"The January 1958 issue of *High Fidelity* magazine reviews the same record. Here the critic is David Johnson who says:

'If this isn't the top Tchaikovsky Fourth on micro-groove it comes close. The sonics are superb, except that the timpani are unquestionably lumpish in the first movement. The orchestra is France's greatest. Listen to the miraculous teamwork of the third movement, especially to the petulant wind octet that begins its middle section; or to the détaché scales of the entire string body in the finale—not a single semiquaver is blurred or lost, although the tempo is *allegro con fuoco* and the dynamics are *ff*.

'The conductor is that roving genius Markevitch. May he never settle down to one post if his peripatetics produce results like this. When you hear this recording, you will, I think, be struck by Markevitch's affinities with Toscanini. The perfectionist, the architect who never loses sight of the whole despite his passionate concern for the parts, the supreme individualist who yet gives the impression that he has submerged his personality in that of the composer—these are some of the characteristics that the two men share. Markevitch has not yet recorded an opera, but I predict that when he does it will be an event.'

"My reaction after reading these reviews was to look again to see if both critics were discussing the same record. They were.

"Now the reader has a problem. If he has the opportunity to hear a record before he buys, the answer is simple—listen and decide. If he cannot make a listening test, then there is no adequate way to make an intelligent appraisal of the different opinions presented.

"In the first place the reader should have an idea of the background and personal preferences of the reviewers. Second, it would be helpful if comparisons were made with other recordings to show which versions that particular reviewer prefers, so the reader could get a general idea of the critics' attitudes.

"For example, Mr. Kaine may have a simply enormous knowledge of music. His affection for Tchaikovsky might be so great that any deviation from standards he feels are correct would spoil his enjoyment of any performance that differs from these standards. However, the space limitations required by your capsule method of reviewing allows him no opportunity to expand his points, and one suspects that perhaps the critic is tempted to exaggerate because of the need for brevity. There is good reason to believe that few records could be as completely hopeless as Mr. Kaine says this one is. Were he allotted enough space to spell out where he finds liberties in tempo and tasteless phrasing, which to him are so disturbing, and to cite examples of recordings he considers superior, he would be able to be of service. The reader could then confirm Mr. Kaine's evaluation and find him a useful and competent critic, or an opinionated sciolist.

"Third, the complete lack of any information about playback equipment used by the reviewer is rather remarkable in a magazine 'devoted to hi-fi music from records, tape and FM radio'. If the equipment with which Mr. Kaine listens to records were listed, readers would be in a position to determine how much of the poor sound reported ('pre-echo throughout the second side'—'too much evidence of monitoring'—'distortion') is in the recording, and what part might be due to Mr. Kaine's faulty playback equipment.

"How often have we seen the efforts of a hundred musicians, a conductor of integrity, a responsible recording supervisor, a corps of engineers, editors and various other technicians of professional competence called 'a travesty of distortion' or worse because of the temporary indisposition of a writer or the inadequacy of the playback equipment he is using.

"Since David Johnson found that 'the sonics are

superb', and 'not a semiquaver is blurred or lost', I would conclude that either Mr. Johnson's ear was adding beauty to the sound of the recording, or that his record playing equipment was of an entirely different quality than Mr. Kaine's. At any rate it would be helpful to know what was being used.

"Just for fun I checked the recording to see why, as Mr. Kaine put it, 'Angel has strangely distributed only the first movement on side one and crammed the remaining three on the reverse.' The answer seems to be that the choice could have been made either way. The first movement takes slightly more than 17 minutes. If the second movement were added to the first side, the total would be about 27 minutes. Side two would then be 19 minutes long. As the record now stands, the second, third and fourth movements are 28 minutes in total length, well within the limits permissible in microgroove recordings.

"Having heard the record a number of times, I do not see that the additional length of side two has any deleterious effect on the quality of the recording, since with my equipment (D & R turntable, Grado cartridge, Marantz audio console and power amplifier, and Bozak B-310 speaker system) I could detect absolutely no trace of the pre-echo that was so annoying to Mr. Kaine. I was also unable to detect any evidence of monitoring. My own opinion, therefore, is that Mr. Kaine's review is rather more subjective than is desirable. In justice to reviewer, recording, and ultimate consumer I would like to see your reviews enlarged, made more specific, and approached in a much more objective manner."

It is hard to imagine a more dramatic conflict of critical appraisal than Mr. Auf der Heide has managed to confront us with here. It might be said, airily, that it takes all kinds of critics to make a world, and that criticism is born of controversy, but that, of course, leaves the reader absolutely nowhere. There are a few guide-posts, though, by which one can appraise a reviewer's aptitude to evaluate and to select according to the standards that come nearest the readers' own point of view and understanding. Most important: *know your critic*. Familiarity with his past reports and his outlook on music generally, his examinations of works and performances with which you *are* acquainted, will quickly decide whether or not he's the man for you, according to your own preferences by and large.

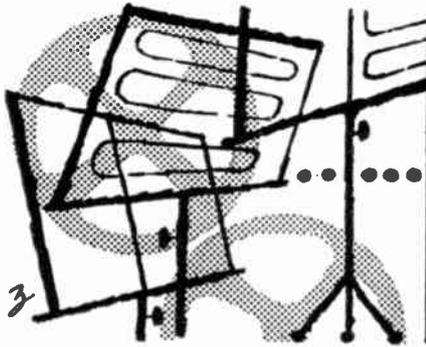
Reviewers certainly do have "off days", and they certainly do have prejudices, hard as a good critic does try to analyze each work fairly and objectively. For instance, without subjecting this beleaguered performance of the *Tchaikovsky Fourth* to yet a third dissection, it is obvious when following the recording with a score that considerable *rubati* is employed in many passages during the Markevitch rendition. (It is rather hard to accept Mr. Johnson's contention that Markevitch shares an affinity with Toscanini when it comes to the *Tchaikovsky Fourth*, a work the latter seldom if ever conducted, and never recorded; and, indeed, when you consider Toscanini's almost rubato-less life and curious ambivalence when it came to all matters Tchaikovsky.) Anyway, Mr. Kaine, a conductor in his own right of not inconsiderable

accomplishment, takes violent exception to the *rubati*; Mr. Johnson, it seems, revels in it. On the other hand, *you* might take violent exception to Mr. Johnson's claim that the National Radio and Television Orchestra is the finest symphony in France. But be generous with this prejudice. If you *do* agree after hearing the Markevitch performance that the interpretation is "tops," then you're with Mr. Johnson. But alas, if you don't, then better return the record to the shop, if you can, and next time listen to Mr. Kaine. Agreed, it would have been helpful if Mr. Kaine had listed a performance of which he did approve, and perhaps it would have been fairer to him if it were possible to allot more space for development of his analysis, but this unfortunately is not feasible if we are to cover the important releases as numerous as we attempt to do. Areas of unanimity are not unknown among members of the critical fraternity, but about all one can advise when faced with the opposing views of music reviewers is: listen, and decide for yourself.

Special care to take cognizance of each critic's specialty or specialties is followed when assigning records for review in *Hi-Fi Music*. To cover the whole musical horizon authoritatively, we have found it advantageous to invite a rather impressive force from various fields to write for us. (Biographical notes about each of our reviewers can be found in the 1958 *Hi-Fi Yearbook* issue of *Hi-Fi Music*.) It is a condition upon which he writes for us that each reviewer will listen to records and tape on acceptable high fidelity equipment. Naturally, they do not all use the same equipment, and we couldn't possibly find space to list all our reviewers' components even if they weren't making changes almost monthly! But there is validity in comparative listening. In other words, the superiorities or deficiencies of records will show up adequately enough if the critic listens to all of them on the same play-back, taking for granted the equipment is of good caliber. It is when changes are made that the ear must sometimes be re-attuned.

Returning once again to our *Tchaikovsky*, Mr. Kaine complained of a "pre-echo" on the second side, while Mr. Johnson apparently found none. To probe into this would be to seek out the highly sensitive mysteries of the LP pressing process, but in fairness to Mr. Kaine it must be stated that when listening to yet a third copy of this recording for the purposes of these comments, a pre-echo was indeed discovered, heralding a few of the *forte* and double *forte* attacks of the final movement. I would hesitate to call it "a travesty of distortion" but it was there, and it was a flaw.

And so, just as there are two sides to every recording, there are two sides to music criticism: For and Against. But if a reviewer's opinion is backed by competence of judgement and a sincere concern for upholding the standards of music, performances, and technical achievement, we should be able to forgive him his private prejudices and even his occasional peevishness if he writes entertainingly enough. I cannot agree with the eminent London music critic, Hans Keller, who declared recently: "The critic's job is to make himself unnecessary." Nonsense. Half the fun would be gone out of life.



# RECORDED TAPES

## Reviews & Ratings

For Names of Reviewers and Explanation of Ratings, See the Record Review Section

**BARTÓK: String Quartet No. 2** A  
 Kohon String Quartet A  
 7½ ips. Stereo Time: approx. 30 mins. A  
 Stereo Age Recordings Bartók



The Kohon Quartet makes its recording debut here in what I consider to be the first major chamber work by Bartók. It is also the work's first appearance on stereo. The performers, who have to contend with three competitive versions on records, prove to be among the very finest of our chamber groups. Their integration and understanding of the work from every viewpoint is truly extraordinary. And their not-overfast tempi seem just right to me. More should be heard of this chamber group. The stereo sound is very realistic.

A. Skulsky

**BEETHOVEN: Overtures: Leonore** A  
 No. 3, Op. 72b; *Fidello*, Op. 72c; A  
*Coriolan*, Op. 62; *Egmont*, Op. 84 A  
 Philharmonic Promenade Orchestra of  
 London under Sir Adrian Boult  
 7½ ips. Stereo. Time: approx. 36 mins.  
 Vanguard VRT 3021

This is grand Beethoven indeed without any unnecessary romantic gimmicks, and the sound is extraordinary. Every small detail is frighteningly clear and one has to look far to find a dynamic range as wide as in the *Leonore Overture*. Nor has the effect of off-stage trumpets ever been so fully realized as it is here.

A. Skulsky

**BEETHOVEN: Symphony No. 3 in E** A  
*flat*, Op. 55 ("*Eroica*") A  
 Philharmonic Promenade Orchestra of A  
 London under Sir Adrian Boult  
 7½ ips. Stereo Time: approx. 46 mins.  
 Vanguard VRT 4003 Boult



Boult's interpretation of Beethoven's *Eroica* cannot be termed otherwise than masterly. Sir Adrian's basic approach is as usual classic and relaxed. He does not allow himself to deviate from an initial tempo and the total structure is always kept in mind. What we have here in addition, however, is an extraordinary building up of block after block. The primary quality of Beethoven's structure appears in all its power, and while this was also the landmark of Toscanini's approach, Boult's tempi are more relaxed and we have no sense of hurriedness. The dynamic range of this tape is extremely wide and the sound is magnificent.

A. Skulsky

**BEETHOVEN: Symphony No. 5 in C** A  
*minor*, Op. 67 B  
 Philharmonic Promenade Orchestra of B  
 London, under Sir Adrian Boult  
 7½ ips. Stereo Time: approx. 31 mins.  
 Vanguard VRT 3018 Beethoven



This is the fifth version of the Beethoven *C minor* to be found on stereo tape and a good one it is too. Those who have become familiar with Boult's literal, almost stodgy ways, might question his ability to bring the necessary tension and incisiveness to the work; but not so in this performance. With the first-rate London orchestra at his disposal — its strings are especially fine — Boult manages to hit very hard. When he does relax — in the woodwind entrances throughout the first movement, for example, he has a tendency to be almost "cute" in his exaggeration of the rhythm, but this is not overdone. The recording is close-up and Vanguard engineers, wisely not aiming at sensational stereophonic effects, have produced a solid, tightly-knit sound which enhances Boult's power. A very successful tape.

L. Menashe

**BEETHOVEN: Symphony No. 6 in F,** A  
 Op. 68 B  
 Philharmonic Promenade Orchestra of A  
 London, under Sir Adrian Boult  
 7½ ips. Stereo Time: approx. 38 mins.  
 Vanguard VRT 3019

Boult's reserved and straightforward approach makes of this more a sleeping-under-the-trees *Pastorale* than a cheerful one. His tempi are slow and evenly paced, and in subduing climaxes he avoids contrasts. As a result, the first two movements lack delicacy and lyrical quality, and the third is slightly less playful than desired. Nevertheless, the overall effect is pleasant and certainly not dull. Boult really lets loose in the storm movement, and the strength he musters is expertly recorded. Particularly effective here is sharp timpani accenting and resounding brass. This is the first *Pastorale* available in stereo, and as always with writing of rich tonal texture the two-channel medium is a boon.

L. Menashe

**BRAHMS: Symphony No. 3 in F, Op.** A  
 90 B  
 South West German Radio Orchestra A  
 under Jascha Horenstein  
 7½ ips. Stereo Time: approx. 36 mins.  
 Phonatapes (Vox) S-905 Horenstein



It has been remarked that Brahms' *Third Symphony* is technically by far the most difficult of the four that he wrote, due to problems of rhythm, phrasing and tone. Here is a performance which, it seems to me, deals with the first two of these problems in an eminently satisfying manner, and almost — if not quite — conquers the third. Horenstein believes in deliberate tempos and spacious phrasing, and the result, far from being phlegmatic, is a performance of grandeur which has, at the same time, rhythmic precision and vitality. The brass and wood winds come through beautifully, and if the strings have an occasional "edgy" quality, it is a very minor complaint.

S. Fleming

**GABRIELI: Symphoniae Sacrae** A  
 (1597) A  
 New York Brass Ensemble, under C  
 Samuel Baron  
 7½ ips. Stereo Time: approx. 33 mins.  
 Period PST-6

Since Gabrieli worked with all sorts of antiphonal effects, and the element of space is an integral part of the texture of much of his music, stereo would seem to be the ideal medium for its reproduction. Unfortunately, though, this all-important feeling of spaciousness is conspicuously absent in the eight canzoni presented on this tape. The sound is lacking in resonance, and the antiphonal elements simply do not have sufficient clarity or depth to be effective. All of which is especially regrettable in view of the excellent performances, and the high degree of interest inherent in this eternally fresh and vigorous music.

R. Sherman

**OFFENBACH: La Belle Héléne: Over-** A  
*ture; La Périchole: Selections* A  
 The Boston Pops Orchestra, under Arthur A  
 Fiedler  
 7½ ips. Stereo Time: approx. 19 mins.  
 Victor BCS-50 Offenbach



Take two parts of scintillating Offenbach melodies, add some zestful conducting by Fiedler, and mix well with lush, wonderfully natural sound, and the result is what you'll find on this sparkling tape. The biting overture to *La Belle Héléne* contains some of the composer's brightest pages, and the medley of gaily elegant themes from *La Périchole* is equally ingratiating, even though one may well prefer the songs in their original vocal garb. You'll be getting your money's worth on this tape in every respect but quantity.

R. Sherman

**SESSIONS: Suite from "The Black Maskers"** A  
 A  
 A  
 Manhattan-Rochester Symphony Orchestra under Howard Hanson  
 7/2 ips. Stereo Time: approx. 21 mins.  
 Mercury Stereo MS5-16 Sessions



When I reviewed *The Black Maskers Suite* some time ago when it appeared on records I insisted on the first-rate qualities of this work. Written in the 'twenties, it still appears as one of the major works of that decade. Both musically and dramatically it is original and fully of its time. Thus from the very start of his creative career, Sessions appeared as a major American composer. The stereo version enhances the qualities of the work. The intricate details of the difficult score appear with the utmost clarity and both range and sound as produced by the Mercury engineers are stunning indeed.

A. Skulsky

**STRAVINSKY: Capriccio for Piano and Orchestra** A  
 B  
 A  
 Charlotte Zelka, piano; Southwest German Radio Orchestra under Harold Byrns  
 Stereo 7/2 ips. Time: approx. 18 mins.  
 Phonotapes (Vox) S-714

Stravinsky's spirited *Capriccio* is given a well rounded and spirited performance. Charlotte Zelka, while not to be counted among the great virtuosos, is very well fitted to this kind of music which needs mainly strong rhythmic incision and contrasted dynamic levels. The orchestra, under the expert leadership of the American Harold Byrns, plays with the utmost clarity. The stereo sound has a wide range quality especially noticeable in the orchestral accompaniment.

A. Skulsky

**TCHAIKOVSKY: Symphony No. 4 in F minor** A  
 B  
 A  
 Bamberg Symphony, under Heinrich Hollreiser  
 7/2 ips. Stereo Time: approx. 41 mins.  
 Phonotapes (Vox) S-904 Hollreiser



This vigorous, dramatic reading of Tchaikovsky's masterwork is blessed with bright, reverberant, amazingly lifelike sound, and the happy combination enables the familiar score to emerge with renewed power and effectiveness. Hollreiser seems to have grouped the strings on the right side and the winds on the left, an unorthodox arrangement which might, I suppose, prove a little distracting to some listeners. I found it perfectly acceptable, however, and perhaps even advantageous — certainly the end result is a tape with unusual clarity and definition, and one which takes full advantage of the potentials of stereo.

R. Sherman

**Sarah Vaughan sings George Gershwin** A  
 B to C  
 A  
 Orchestra conducted by Hal Mooney  
 7/2 ips. Stereo Time: approx. 20 mins.  
 Mercury MS2-17 Gershwin



Sarah Vaughan can sing like a dream when she wants to, as she demonstrates well enough in such songs as *A Foggy Day*, and *Bidin' My Time* recorded here. But on other songs, particularly *The Man I Love* and *Love Walked In* she indulges in those false chest tones and scoops up and down and between the scales that have always seemed musically and stylistically senseless to me. These vocal eccentricities are particularly unfortunate when employed against the perfect architecture of Gershwin's tunes. The arrangements are excellent, and the orchestra under Mooney is recorded in splendid balance.

D. Cross

**Central Park South** C  
 B  
 B  
 Joe Rene and his Orchestra  
 7/2 ips. Stereo Time: approx. 16 mins.  
 Manhattan MRC-101



Sparkling, sprightly dance music played by a master. Joe Rene directs his society orchestra in a beguine, a waltz, a fox-trot and a ballad. This is purely music for dancing, and in stereo the illusion of *Central Park South* is strong indeed. One expects to hear tinkling cocktail glasses and the murmur of subdued conversation along with the gently bouncing rhythms.

C. Graham

**Dance Hits of the '30s and '40s** C  
 B  
 B  
 New World Theatre Orchestra  
 7/2 ips. Stereo Time: approx. 23 mins.  
 Bel Canto ST-30

The dance hits here assembled are for old grads who like to remember how it was in the days of Glenn Miller, the Dorseys and Goodman, and who can dance while they listen and remember. It was big band music then and so is this. On a stereo tape reel there are severe limits to the number of selections (in this case there are six) but these are well chosen for all who went a'dancing in those days. Stereo helps the mood.

C. Graham

**Honeymoon in Manhattan** C  
 New World Theatre Orchestra B  
 7/2 ips. Stereo Time: approx. 20 mins. B  
 Bel Canto ST-31

Five standard mood selections are well executed here by a good-sized orchestra, to evoke memories of New York for those who've visited there. Relaxing while listening to these lush arrangements even this hardened reviewer became nostalgic — and he lives there, and has never had a honeymoon! The opener is, appropriately, *Curtain Time*, with the excitement of *Slaughter on 10th Avenue* following, then *Romance in Central Park*, *Autumn Leaves*, and finally a rousing *Manhattan!* Sound is clean, stereo effect fine.

C. Graham

**A Toast to Tommy and Jimmy Dorsey** B  
 B  
 B  
 Members of Dorsey Orchestras under Maxwell Davis  
 7/2 ips. Stereo Time: approx. 28 mins.  
 Omegatape 7026



This session recorded twelve of the best known specialties of the two bands led by Tommy Dorsey and by his brother Jimmy. A number of the many fine musicians to pass through these two orchestras are present in the recording ensemble, together with several equally fine west coast studio musicians. They do a most creditable job of recreating *Marie*, *Song of India*, *So Rare*, *Green Eyes*, and *I'm Getting Sentimental Over You*, in the arrangements in which most of us know them best. It's also good dance music. Stereo helps the re-creation of atmosphere here.

C. Graham

**Ruffle and Flourishes** C  
 Music for Field Trumpets and Drums A  
 7/2 ips. Time: approx. 16 mins. A  
 Mercury MS5-13



Frederick Fennell conducts members of the Eastman Symphonic Wind Ensemble — four trumpets, four field drums, bass drum and cymbals — in this assault. The sound, recorded in the Eastman Theatre in Rochester, is almost overpowering, but clearly defined. The variety of musical selections available to bugles would seem to be severely limited, yet here we have traditional marches, inspection pieces, music for rendering honors, and well-known Army bugle calls. A special demonstration of how far the simple instrument that is the bugle can go toward making music is the jazzy *Swinging Down the Street*. Also available on a monaural LP disc.

C. Graham

**All That Jazz** A  
 Johnny Guarneri B  
 7/2 ips. Stereo Time: approx. 16 mins. B  
 Manhattan MRC-102

Expert jazzman Guarneri played a great deal with Benny Goodman, Art Shaw and other big bands of the '30s and '40s. Since 1942 he's stayed off the road most of the time, playing with small groups in the East. Here he's assembled Mundell Lowe, guitarist, and a fine bass and drums for five swinging selections. Piano and guitar shore numerous interesting solo spots, but all in all this is more for dancing than listening. Clean recording, and the stereo effects are apparent.

C. Graham

**Monk's Music** B  
 Theolonius Monk, Coleman Hawkins, Art Blakey and others A  
 A  
 7/2 ips. Stereo Time: approx. 28 mins.  
 Livingston RT 7-20 F Monk



Theolonius Monk is one of today's giants who, like many another innovator before him, remains almost unknown to the general public, but is listened to avidly by musicians great and small, many of whom he has influenced enormously. Here he plays four of his own compositions, with assistance from the daddy of the tenor saxophonists, Coleman Hawkins. Also present and contributing importantly are well-known modern jazzmen Gigi Gryce, alto sax, John Coltrane, tenor, Wilbure Wore, bass fiddle, the dynamic Art Blakey, drums, and a trumpeter previously unknown to this reviewer, Ray Copeland. Hear especially the tender *Ruby My Dear*, in which Hawkins plays with only Monk and Blakey. This is one of the most revealing and interesting groupings of modern (for lack of a better phrase) jazz to come our way yet. Fine definition of sound via stereo.

C. Graham



**MARTIAL SINGER**

**suggests a basic library  
of vocal chamber music**

**A leading baritone of the Metropolitan Opera as well as a distinguished recitalist recommends outstanding examples of vocal music with instruments for your record library.**

## **GUIDE TO RECORD COLLECTING**

**Notes and Comments by  
George Louis Mayer**

**T**HE HISTORY of vocal chamber music from the Baroque era to our own is haphazard and lacks the continuity of other musical forms which can be easily traced from century to century. The combination of the voice with a keyboard instrument and strings was ideal for the cantata in both its religious and secular guises. As the cantata spread from Italy to France and Germany in the 17th and 18th Centuries, an enormous amount of this type of music was composed. However, when the cantata languished and was replaced by other forms, so too was the combination of the voice and a small instrumental ensemble. The 19th Century almost succeeded in inseparably wedding the voice to the piano or to a full orchestral complement as chamber music became a purely instrumental art. But once Romanticism had passed its peak, composers, searching for new forms and rediscovering Baroque ones, once again joined the voice to small ensembles and created a whole new literature in this genre. Today this repertory continues to grow. And along with the new has come

a revival of the old, so that the existing repertory of vocal chamber music is a large and varied one.

Martial Singher, famous as a leading baritone of the Metropolitan opera, is also one of the most gifted and rewarding recitalists of our day. He has long been associated with this music both as an artist and as a teacher. As a performer he has varied the usual recital fare with such works as Ravel's *Chansons Madécasses*, which has encouraged other singers to follow suit. His teaching experiences have led him to remark, "I have found young singers more interested in vocal music with instruments than is generally believed. At the Marlboro School of Music in Vermont we opened a class under my direction on this specialty, and achieved beautiful results." His class at the Marlboro School will be repeated this summer.

The list which follows was chosen by Martial Singher "to give the listener selections of great variety in voices, moods, and styles." Unfortunately, a work he especially admires is not to be found on the list. It is the version of Fauré's *La Bonne Chanson* for voice, piano, and string quartet. The version for voice and piano is often performed, and has been recorded several times, but it still remains for some enterprising company to give us the larger version. Mr. Singher's own identification with this song cycle would make him the logical choice for such a project. Let us hope that it will soon be forthcoming.

**Couperin (le Grand): Leçons de Ténèbres:** Couperin's three *Lessons of Darkness* were composed for services on the Wednesday of Holy Week during which the church is gradually darkened as the lights are diminished and eventually extinguished. They are scored for a variety of combinations: No. 1 for high voice, cello, and harpsichord; No. 2 for high voice, cello, and organ; No. 3 for two high voices, cello, and harpsichord. The Latin text is from the *Lamentations of Jeremiah*. Each verse is introduced by a Hebrew letter which is treated as an elaborate vocalise. And each lesson ends with the plaintive appeal, "Jerusalem, Jerusalem, return to your Lord God". Couperin uses this intense and dramatic text to fashion what is undoubtedly one of the most profoundly moving of all sacred compositions. It is based on Italian models, but the style is completely French. The elaborate ornamentation and chromatic melodic devices are never meaningless decorations. The whole structure of the composition depends upon them. In the Westminster recording, Hugues Cuénod, tenor, is joined by a second tenor, Gino Sinimberghi, harpsichordist and organist Franz Holetschek, and cellist Richard Harand. He has been performing this music since the 30's and his performance shows his love and understanding of it in every phrase. His voice is light and flexible enough to cope successfully with the incredibly long-breathed

pianissimo vocalises, and forceful enough to convey the vitality of the text in the recitative sections. It is impossible to over-emphasize the power and beauty of the music. Those who have yet to discover it should hasten to acquire this record (Westminster XWN-18581).

**Rameau: "L'Impatience", Cantata for Solo Voice, Viola da Gamba, and Harpsichord:** The powerful influence of Italian cantatas on French composers is well illustrated by this pastoral cantata composed during Rameau's early 30's. He had not yet turned his attention to opera, in which his style was to become wholly French and his personality most highly felt. "L'Impatience" concerns the impatience of an ardent lover while awaiting his beloved Corinne to join him in the woods where he has been languishing since before dawn. His "grief" is a delightful combination of self-pity and the traditional male discomfort of having to wait for a lady. Pain vanishes as his companion approaches, and he is no longer jealous of the birds who have tormented him with their early morning gaiety. Recitatives alternate with three arias in this cantata, an "air gai", an "air tendre", and an "air légère". Girdlestone, in his recently published book on Rameau, points out that nowhere else does the composer so treat the viola da gamba in the concerto style — familiar to us through Bach's solos in the cantatas and in the Passions — as he does in this cantata. The independence of the solo instrument, playing in *concertante* style, gives us the feeling and the pleasure of a concerto. This is especially effective in the concluding air. The tenor Hugues Cuénod recorded this diverting cantata with Alfred Zighera playing the viola da gamba, and harpsichordist Daniel Pinkham (Lyricord 44). Another secular cantata by Rameau dating from the same period, "Diane et Actéon", is on the reverse side. This includes a violin in addition to the combination employed in "L'Impatience". Both performances are properly ornamented and stylized, and offer a delightful change to anyone looking for unusual vocal music.

**Handel: "Apollo e Dafne":** When Handel was in his early 20's he went to Rome. This was during the first decade of the 18th Century while the papal ban on opera was still in full force. Composers, in an attempt to avoid this ban and yet satisfy the opera lovers, used the cantata as their vehicle. It was enlarged beyond its intimate scope and used to dramatic advantage. While the overall proportions of this work put it in a class quite different from others on this list, the cantata does contain features which are pertinent. The general use of obbligato instruments to accompany the voice in arias of this period is exemplified here in Dafne's first two arias. Her first is accompanied by strings

*Continued on page 58*

# Those "Salute" LP'S

The Difference Between Authentic Re-Creations and Originals:  
Fidelity *Vs.* Morality -- By Leonard Feather

**A**MERICAN jazz enthusiasts who are old enough to have memories of the original Jimmie Lunceford orchestra in full flower, or young enough to treat a pursuit of its legend as a matter of archeological research, have a splendid choice open to them. They may buy "Jimmie Lunceford in Hi-Fi" (Capitol TAO 924), which on inspection of the smaller print is revealed to contain "Authentic Re-Creations of the Original Lunceford Style" played not by Lunceford but by an orchestra under the direction of Billy May; or they can turn to "Jimmie Lunceford in Hi-Fi" (Decca DL 8636), a title that on closer examination turns out to be preceded by "The Original Arrangements of" and to refer to performances by the band of Sy Oliver, recorded a full decade after Lunceford's death; or they are welcome to try "Rhythm Was His Business" (RCA Victor LPM 1301), subtitled "A Salute to Jimmie Lunceford: George Williams and his Orchestra," with the usual grandiose appendage: "A 'New Orthophonic' High Fidelity Recording".

Of course, there is a fourth option, but hardly anyone is likely to take it. This would be "Jimmie Lunceford and his Orchestra" (Decca DL 8050), which, it can be revealed here, is actually played by a band led by Jimmie Lunceford during his lifetime and is in full narrow-range low-fi, a system comparable with television in *Glorious Black and White*. The album has the additional disadvantage of not containing *For Dancers Only*, the band's most successful theme song, which is played by all three bands in the hi-fi LPs; nor does it have *Rhythm Is Our Business*, another Lunceford theme, also common to the May, Oliver, and Williams albums. A fifth possibility is presented by Columbia's reissue of original Lunceford band selections (Columbia CL 634).

The presence of all these albums on the already bulging jazz market raises several issues: moral, musical, and technological. One wonders how far the system of tributes and dedications can be driven, how much blood can be squeezed from a memory. Of the three leaders saluting Lunceford, Oliver has every moral right to record such an album, since it was his orchestrations that earned the original band its place in history; Williams' relationship with the old orchestra was short-lived and insignificant; while May never to my knowledge wrote for Lunceford at all.

Yet how, but for the recording quality, could one discern the difference between these "authentic re-creations" and the originals? Williams rules himself out immediately by using soloists like Conte Candoli and Jimmy Cleveland, whose technique and style can be compared with nothing that existed in Lunceford's heyday. Drummer Jimmy Crawford is the only member of the original band present. But the Oliver LP uses Crawford and a handful of others

who were with Lunceford at one time or another, while the May set, described as authorized by the Lunceford estate, more significantly uses such major Lunceford voices as Trummy Young, Dan Grissom, Willie Smith and Joe Thomas.

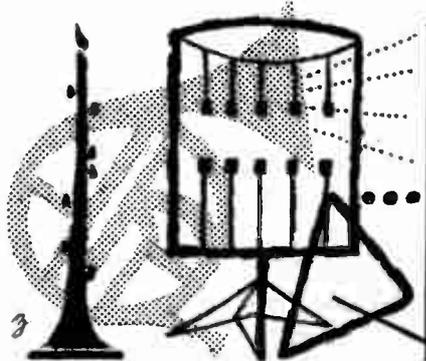
The brutal fact is that on some tracks, especially in the Oliver and May albums, the arrangements often carry all the impact and excitement of the old band, and more. Except for the giveaway hi-fi sound they could at many points easily be mistaken for the genuine article in any blindfold test. This brings up an important question: does the virtue of being the genuine original article, per se, lend to the actual Lunceford LP a musical merit absent from the others?

There are those who will point out that no frequency range on earth can compensate for the lack, in the revival albums, of the indispensable element of authenticity. But this resolves itself into a problem of reportage rather than of esthetics. Objectively, all the musical credit belongs to Lunceford, to the men who worked for him, and to the unique big-band team spirit they engendered; but subjectively, if the music they created is to be enjoyed to the full extent with all the advantage of 1958 engineering, then the new LP's must be recommended.

Even the souping up of old recordings by passing them through echo chambers is not relevant to the main question, which is, very simply stated, what sounds best to the present-day ear? In most cases the answer will tend toward the new recording with full-range frequency response; those who prefer the original may be guided partly by nostalgia, but some claim that they detect the kind of pristine mood of exultancy that dominated the great jazz orchestras of the 1930's and that cannot always be duplicated, no matter how trained and accurate the new performers, no matter how authentic the source of the re-creation.

What the listener has to decide for himself is where nostalgia ends and reality begins. If I were starting today as an investigator of the Lunceford legend, I would save up an extra four bucks and purchase both the authentic Decca, and either the May or the Oliver. In this manner the original qualities, observed without any doubt as to their authenticity, could also be compared in the light of the tremendous musical and technical advances made in two decades.

Nevertheless, it is high time the tributes slowed down. Another current case, now achieving the proportions of a small scandal, involves Charlie Parker. Since his death in 1955 every scrap of reject tape, every note he played whenever he blew within fifty feet of the most primitive tape, wire or disc recorder, seems to have found its way onto the market. The jackals are *Continued on page 58*



# LP RECORDS

## Reviews & Ratings

BOARD OF REVIEWERS: Jean Bowen • Arthur Cohn • Douglass Cross • Oliver Daniel • Leonard Feather • Shirley Fleming • Bernard Gabriel • Charles Graham • Peggy Glanville-Hicks • Edward Jablonski • Alfred Kaine • Ulric Kaskell • Ezra Laderman • Marvin David Levy • George Louis Mayer • Louis Menashe • David H. Miller • Robert Sherman • Abraham Skulsky • Walter Stegman

### ORCHESTRAL MUSIC

**BERLINSKI: Symphonic Visions** A-B-B  
**GERSCHEFSKI: Saugatuck Suite** A-A-A  
**WILLIAMSON BALLOU: Prelude and Allegro** A-A-A  
 Ashai Orchestra of Tokyo under Richard Korn; Vienna Orchestra under F. Charles Adler  
 CRI 115

Yet another interesting issue from the enterprising Composers Recordings, Inc. Of the three composers presented here, Herman Berlinski is certainly the most gifted. His *Visions* is inspired by verses from the Bible and has an undeniable dramatic impact. His musical language, while stemming from such diverse sources as Mahler, Bloch and Milhaud, possesses nevertheless an individual character of its own, for the composer displays a lyric gift and harmonic inventiveness. The other works are much more conventional but are not entirely without appeal. The Ashai Orchestra from Tokyo makes its debut on discs and proves a well trained ensemble in the Berlinski work. The Vienna Orchestra also plays well.

A. Skulsky

**DVOŘÁK: Symphony No. 2 in D minor, Op. 70** A B  
 Hallé Orchestra under Sir John Barbirolli A  
 Mercury MG-50159 Dvořák



The core of Dvořák's work is to be found in his chamber music and symphonic composition. This indicates most clearly how he is bound to the school of Beethoven, Brahms, and Schubert. Their forms are his, but the contents are strictly individual to Dvořák, and there is a bountiful amount of Czech coloration. Barbirolli just misses an exciting performance. In the scherzo, especially, the rhythms are expressed with validity, but the nationalistic tang does not tingle; in short, the movement is considered too conservatively. The Hallé orchestra has a rich tone, but tends to heaviness, which makes the work less sparkling than it should be.

A. Cohn

**GRIEG: Peer Gynt Suite; Symphonic Dances; Elegiac Melodies** A-C A A  
 Hallé Orchestra under Sir John Barbirolli A  
 Mercury MG-50164 Grieg



Edvard Grieg in recent years has been relegated to the pop concerts and classified with contempt. What injustice! Now with the advent of LP's his

reputation is re-established. He is no giant but a wonderful and sensitive miniaturist with a great gift of melodic invention, and a resourceful spokesman for his nordic homeland. Barbirolli has just the right approach. His climaxes are restrained, the storms are gentle though dark, and the tunes sing with warmth and sentiment. The folk material that Grieg used in his *Elegiac Melodies* is truly beautiful and his influence on Sibelius was never more keenly felt.

E. Laderman

**MILHAUD: Les Choéphores** A-A  
**HONEGGER: Symphony No. 5** A-A  
 Genevieve Moizan, Hélène Bouvier, Heinz Rehfluss, soloists; Claude Nollier narrator; Chorale de l'Université with Lamoureux Orchestra under Igor Markevitch  
 Decca DL 9956 Markevitch



It is almost unbelievable that Milhaud was only twenty-seven when, in 1919, he finished his score of *Les Choéphores* (Part II of "Aeschylus Oresteia"). This is one of the most dramatic and musically original works of our century. In it Milhaud's imagination knows no bounds, and at the same time Aeschylus' tragedy is presented in all its terrifying directness. Honegger's *Symphony No. 5* is one of the composer's last works and gives an impression of great maturity and of experience gathered throughout a lifetime of creativeness. Both performances are absolutely first rate. Again Markevitch proves his extraordinary insight and conducting powers. It is a shame that Decca does not include the text of *Les Choéphores* in this release.

A. Skulsky

**MUSSORGSKY: Night on Bald Mountain** A B  
**BORODIN: In the Steppes of Central Asia** A  
**RIMSKY-KORSAKOV: Capriccio Espagnol, Op. 34**  
**GLINKA: Kamarinskaya**  
 Orchestre des Concerts Lamoureux under Jean Fournet and Ohan Dourian  
 Epic LC-3432 Mussorgsky



Here is the smooth and somewhat sophisticated French method of performance superimposed upon the exciting and often barbaric Russo-Romantic style. Consequently, the music often contains more color than these versions would suggest. The *Capriccio* lacks sufficient rhythmic impulse and contrast. The Glinka fares quite well under the silken tone of this orchestra. Fournet, who conducts the Mussorgsky and Borodin, draws more emotion than does Dourian, although he has a tendency to drag tempi. The soft and dreamy *Steppes*, however, is lucious in tone and phrasing. The recording is excellent.

D. H. Miller

**PROKOFIEV: Lieutenant Kijé Suite** B-B  
**STRAVINSKY: Song of the Nightingale** A-B A-A  
 Chicago Symphony Orchestra under Fritz Reiner  
 RCA Victor LM-2150

#### RATINGS OF CLASSICAL MUSIC

The following explanation of the Record Ratings which accompany the Record Reviews is given so that you will understand exactly the significance of the three letters which appear at the right of each review heading.

#### COMPOSITION (Top Letter)

##### A: Outstanding

Indicates that the composition is one of the composer's best works, or that it is outstanding in a particular class of music. Assignment of this rating is an unqualified recommendation.

##### B: Important

This rating is but slightly below the A rank.

##### C: Worthy

A composition which may merit representation in a library of the composer's works, or in a collection of that particular music.

#### PERFORMANCE (Middle Letter)

##### A: Outstanding

Indicates a superb performance. Assignment of this rating is an unqualified recommendation.

##### B: Excellent

A noteworthy performance, subject only to minor criticism.

##### C: Satisfactory

A performance not without flaws, yet deserving public notice.

#### RECORDING QUALITY (Bottom Letter)

##### A: Outstanding Realism

Representing the highest present attainments in acoustic and recording techniques.

##### B: Excellent Quality

Slightly below A rating because of minor faults in the acoustics or recording, or because the noise is considered somewhat above the minimum currently attainable.

##### C: Acceptable Quality

Representing the current average of the better LP records.

##### R: indicates a re-issue.

**Important Note:** Records which are rated below C as to the composition, artist or orchestra, or recording quality are not ordinarily reviewed here. However, the omission of a record does not mean that it was rejected, as it may not have been submitted to HI-FI MUSIC AT HOME for review.

## REVIEWERS' TRIPLE-A-RAVES IN THIS ISSUE

All the compositions, performances, and recording techniques on the following discs have been given unqualified recommendation

### ORCHESTRAL MUSIC

**HAUD:** Les Choéphores  
**EGGER:** Symphony No. 5 Decca DL-

**PROKOFIEV:** Romeo and Juliet (Selections from Suites I and II) RCA Victor LM-2110

**PROKOFIEV:** Romeo and Juliet (Selections from Suites I and II) Decca DL-9967  
**TCHAIKOVSKY:** Swan Lake (highlights) London LI-1768

### CONCERTOS

**GOLDMARK:** Violin Concerto in A minor Capitol PAO 8414

**HERBERT:** Concerto No. 2 for Cello and Orchestra, Op. 30

**PETER:** Sinfonia in G Mercury MG-50163

**WALTON:** Cello Concerto  
**BLOCH:** Schelmo (Hebraic Rhapsody for Cello and Orchestra) RCA Victor LM-2109

### CHAMBER MUSIC

**DVOŘÁK:** Trio in E minor, Op. 90 ("Dumky")

**SMETANA:** Trio in G minor, Op. 15 Vox PL 10,440

### OPERA

Carlo Bergonzi Operatic Recital London 5346

### KEYBOARD MUSIC

**FRANCK:** Pièce Heroïque; Three Chorales: No. 1 in E, No. 2 in B minor, No. 3 in A minor Mercury MG-50168

### FOLK MUSIC

Jewish Folk Songs Elektra EKL-141

### STAGE, SCREEN & TV

South Pacific RCA Victor LOC-1032  
Hans Brinker or the Silver Skates Dot DLP 9001

### POPULAR MUSIC

Dream Street Vik LX-1111  
The Many Sides of Pat Suzuki Vik LX-1127

### JAZZ

Gil Evans and Ten Prestige 7120  
Ella Fitzgerald Sings Verve MGV-4010  
The Art Tatum-Ben Webster Quartet Verve MGV-8220  
Leroy Walks Contemporary C-3542

While neither work can be regarded as the highest achievement of their respective composers, they cannot be dismissed as second-rate. Prokofiev's *Lieutenant Kijé* is in the composer's best lighter vein, and Stravinsky's tone poem is a somewhat disjointed synopsis of his colorful opera "The Nightingale". Both works are presented with the utmost perfection and precision by Fritz Reiner and his very good orchestra. For the Stravinsky I somewhat prefer the Ansermet version on London, which is more refined and poetic. Nothing, however, can supersede the dazzling sound which the present Victor version offers.

A. Skulsky

**PROKOFIEV:** Romeo and Juliet (Selections from Suites I and II) A-A  
Boston Symphony Orchestra under Charles Munch A-A  
RCA Victor LM-2110 A-A

**PROKOFIEV:** Romeo and Juliet (Selections from Suites I and II)

**TCHAIKOVSKY:** Romeo and Juliet Berlin Philharmonic Orchestra under Lorin Maazel A-A  
Decca DL-9967 A-A



Maazel

The Decca album contains five selections from the Prokofiev score, and the Victor, eleven. This is one of the Russian master's most colorful and dramatic works, and right up Munch's alley, whose stunning interpretation features sensitive blending of orchestral textures. I find that he is more intent upon the imaginative and lyrical elements of the score than is Maazel, and he moulds a performance of great power and beauty. Judging from the Decca release, the 28 year old American Lorin Maazel is a man to watch. His reading emphasizes vitality and strong dynamic contrasts; elements with which this music abounds. His ideas are valid and forceful, and his control of this magnificent orchestra is truly remarkable. His conducting may not be as mellow and finely etched at Munch's, but it is effective. The Tchaikovsky is performed with meticulous attention to orchestral balance. Both recordings are excellent.

D. H. Miller

**SIBELIUS:** En Saga, Op. 9; Pohjola's Daughter, Op. 49; Oceanides, Op. 73; Tapiola, Op. 112 A  
Philadelphia Orchestra under Eugene Ormandy A  
Columbia ML-5249 C  
Sibelius



Sibelius

Ormandy's continuingly authoritative comprehension of the Sibelius idiom and the distinct qualities of his Philadelphia Orchestra are a potent combination when applied to music such as this. Their most formidable competition comes from Boult (in *En Saga*, *Pohjola's Daughter* and *Tapiola*) and Beecham (in *Oceanides*), both of whom favor more lyric and introspective approaches on a more subtle level. But to this taste, the lush strings and golden brass of the ensemble at hand, with Ormandy's greater dramatic intensity and robustness, make for stimulating fare. As for the engineering, however, the heavy hand of the monitor is all too apparent. Sibelius' music abounds in *pianississimi* and their opposites, and it would be a service both to listener and orchestra to hear them as written and played. No flicking of the dials could eradicate the considerable surface hiss.

A. Kaine

**SUPPÉ:** Overtures B-C  
Hallé Orchestra under Sir John Barbirolli A  
Mercury MG-50160 A

Six overtures are here recorded: *Poet and Peasant*, *The Beautiful Galatea*, *Morning, Noon and Night* in Vienna, *Light Cavalry*, *Pique Dame*, and the *Jolly Robbers*. Franz von Suppé (1819-1895) was a true continental whose operettas were once the toast of Europe. Now nearly forgotten, he is mainly encountered at band concerts. It is a surprise and a pleasure to hear these overtures in their original version, and to hear them as a group at one sitting is instructive. For the recipe becomes apparent: one part Austrian sophisticate, one part Hungarian gypsy, one part Gallic soufflé, and two parts Italian street song.

E. Laderman

**TCHAIKOVSKY:** Swan Lake (highlights) A-A  
The London Symphony Orchestra under Anatole Fistoulari A-B

London LI-1768 A-A

**TCHAIKOVSKY:** Swan Lake (highlights)

The Ballet Theatre Orchestra under Joseph Levine  
Capitol PAO 8416 Tchaikovsky



Substantially both versions offer the same excerpts from Tchaikovsky's lovely ballet. On many counts, however, the London is to be preferred. The sixteen excerpts which are presented here follow the order of the ballet and are outlined in the liner notes. Not so in the Capitol version, nor are we told what is given are highlights from the work until we look on the record label itself, where the fourteen excerpts are listed in non-ballet order. While both conductors are obviously specialists in the field of ballet and perform with insight into this medium, the London ensemble is certainly superior to its American counterpart, and the London list price is one dollar less than that of the Capitol. So there is little choice left.

A. Skulsky

**WEINBERGER:** Excerpts from "Schwanda" A-B  
A

**SMETANA:** Excerpts from "The Bartered Bride" A

**WEBER:** Invitation to the Dance  
**STRAUSS:** Waltzes from "Der Rosenkavalier", Op. 59

**TCHAIKOVSKY:** Waltz and Polonaise from "Eugene Onegin"  
Bamberg Symphony under Heinrich Hollreiser  
Vox PL-10.590 Smetana



If precision of ensemble and incisive attacks are important to you in a performance, then I must warn you against this release. But for my money, this orchestra has two qualities which override the former objections: a bright, exciting tone and an enthusiasm and abandon which for me is nothing short of thrilling. Some of Hollreiser's tempi are too slow, but for the most part he keeps things moving quite well. The only real disappointment here is the "Rosenkavalier" waltzes, which are far more effective with a larger orchestra. Then again, what they lose in body of tone, they gain in intimacy. The recording is bright and a bit too reverberant.

D. H. Miller

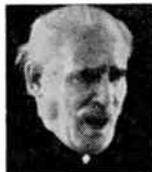
**Music for Strings** A to C  
Leopold Stokowski conducting his Symphony Orchestra A  
Capitol PAO 8415 A

String arrangements of works by Bach, Gluck, Borodin, Paganini, and Rachmaninov make up this handsome sounding disc of our master colorist. Purists will have a field day criticizing the transformations but sensualists will bathe in the color and moods that Stokowski captures. One arrangement is

particularly successful; that is Bach's *Mein Jesu*, a song with figured bass realized by Stokowski with taste and restraint. One transformation that does not fare too well is Bach's *Preludio* in a string version of Bach's own orchestration of his original solo violin *Partita* in E major. It is far more exciting in its incipient version. With minor revisions one could speak likewise of the other adaptations. E. Laderman

## CONCERTOS

**BRAHMS: Concerto for Violin and Cello in A minor, Op. 102** A  
B  
Mischa Mischakoff, violin; Frank Miller, cello; NBC Symphony Orchestra under Arturo Toscanini B  
RCA Victor LM-2178 Toscanini



This performance was taped from a 1948 NBC broadcast. It was something of a family affair, the two soloists being principal players in their respective sections of the orchestra, and as one might expect under such circumstances, the performing concept of the work, on the part of conductor, soloists and orchestra, is noticeably all-of-a-piece. Disciplined is the word for it. The rhythm is strict, the approach business-like, the playing polished. But for my taste, the soloists might have "let go" a bit more and been permitted a little introspection. Too much sentiment is dreadful in Brahms, but too little is hardly fair to him. The sound is close and clear, but disturbingly unresonant. S. Fleming

**FALLA: Nights in the Gardens of Spain; Three Cornered Hat (excerpt)** A to B  
B  
A  
**GRANADOS: Goyescas (excerpt); Danzas Españolas (No. 5)**  
**ALBÉNIZ: Suite Española (No. 3); Cantos de España (No. 4)**  
**MOMPOU: Canción Danza**  
Artur Rubinstein, piano; San Francisco Symphony Orchestra under Enrique Jorda  
RCA Victor LM-2181 Rubinstein



This is a wealthy corpus of music by important Spanish composers, ranging from the mid-19th to the mid-20th century. The half-dozen tidbits for solo piano are all miniature gems, but pale in comparison to the unique three-movement work for piano and orchestra. Falla's *Nights* is a concerto scored with the concentration of chamber music. Nonetheless, in terms of Spanish temperament the music must sound with impulsive determination. Spanish music centers around a general virtuosity; Rubinstein is just a trifle restrained. But the clean stamp of Falla's genius is unmistakable. A. Cohn

**GOLDMARK: Violin Concerto in A minor** A  
A  
A  
Nathan Milstein, violin; Philharmonia Orchestra under Harry Blech  
Capitol PAO 8414 Milstein



The Goldmark Concerto has a little bit of everything (including brief references to Brahms and Beethoven — but who cares?). There is a melodic sweep and a melting sentiment which gives to the work a character thoroughly its own. Milstein sails in with a radiating warmth, manages just the right turn of phrase here, just the proper shading of tone there, and surely winds up holding the most critical of audiences in the palm of his hand. Gimpel's performance on Vox sounds a bit pinched in comparison. The Philharmonia accompanies well, and is articulate and rhythmically alert during its own fugatos in the first and last movements. Sound is clear and faithful. S. Fleming

**HAYDN: Harpsichord Concertos in C and F** B  
B  
A  
Helma Elsner, harpsichord; Reinhold Barcher, violin; Pro Musica Chamber Orchestra, Stuttgart, under Rolf Reinhardt  
Vox PL-10.300 Reinhardt



Here are crisp, rhythmically alive and stylistically perceptive performances of these two concerti. The coordination and rapport between the soloists and the Pro Musica Chamber Orchestra are truly admirable. Only in the slow movements of both works does the style become a bit rigid and unyielding. This is the only reservation this listener finds in two delightful performances of two charming and delightful works. B. Gabriel

**HERBERT: Concerto No. 2 for Cello and Orchestra, Op. 30** A-A  
A-A  
A-A  
**PETER: Sinfonia in G**  
George Miquelle, cello; Eastman-Rochester Symphony Orchestra under Howard Hanson  
Mercury MG-50163 Hanson



Credit Mercury, Hanson, Miquelle, and the members of the Eastman-Rochester group with a double first recording of historical and musical importance. And above all, credit Victor Herbert and Johann Friedrich Peter. The latter, particularly, displays a mastery in string writing (the cover does not indicate the work is for strings alone) and a formal-emotional sensitiveness that is refreshing, even though eclectic in origin. The performances are acutely persuasive; both Hanson and Miquelle understand the synthesis of a musical work, while not overlooking any of its details. The result is one of communicative delight, and artistic high-fidelity. A. Cohn

**SCHÖNBERG: Concerto for Violin and Orchestra, Op. 36; Concerto for Piano and Orchestra, Op. 42** A-B  
A  
A  
Alfred Brendel, piano; Wolfgang Marschner, violin; Symphony Orchestra of the Southwest German Radio, Baden-Baden, under Michael Gielen  
Vox 10,530 Schönberg



There has long been a depressing insistence, on the part of many who write about Schönberg, that each work of his is pure genius, which of course it is not. But he has been a major influence on composers of our time and it will be his theories rather than his works that will make the lasting impressions. Of these two, the *Violin Concerto* is the finer work; it is, in fact, one of the best of Schönberg's. Both works are unfamiliar but their sound is hardly new; their emotional content is actually old-fashioned: yearning, melancholy, whimpering, whining, tormented, disconsolate and disturbed. The performances are impressive. The execution of the *Violin Concerto* is more agreeable and relaxed than that on the Columbia version with Krasner as soloist with the N. Y. Philharmonic. O. Daniel

**STRAVINSKY: Concerto for Piano and Winds** B-B  
A-A  
**BARTÓK: Sonata for Two Pianos and Percussion** A  
Carl Seemann, piano, with the Berlin Philharmonic Orchestra under Thomas Scherman; Carl Seemann and Edith Picht-Axenfeld, pianos, with Karl Peinkofer and Ludwig Porth, percussion  
Decca 9963 Stravinsky



Stravinsky's Concerto shocked the toqued heads of Boston's dowagers 33 years ago and might trouble a few still. It is one of his less popular works, although it is a strong and interesting one; it is athletic, and flexes its sonic muscles forcefully. Scherman conducts splendidly. The Bartók work has many beautiful moments, though it is no unadulterated joy on the turntable. But the performance here is superb and it surges where it should, with fierce intensity, and caresses with a gentle spirit. A more incisive performance was that conducted by Stokowski on RCA Victor. O. Daniel

**WALTON: Concerto for Cello and Orchestra** A-A  
A  
A  
**BLOCH: Schelomo (Hebraic Rhapsody for Cello and Orchestra)**  
Gregor Piatigorsky, cello; Boston Symphony Orchestra under Charles Munch  
RCA Victor LM-2109 Walton



The nobility of the cello as a solo instrument is a fact not really questioned since Bach's time, and it is a pleasure to find that truth re-emphasized so conclusively in these major Twentieth Century works. Walton's *Concerto* is barely two years old, and is dedicated to Piatigorsky. It has certain things in common with the *Viola Concerto*, and makes the most of the cello's melodic power while, at the same time, calling upon some of the orchestra's more rarely heard voices. *Schelomo* (1916) is the very essence of cello music, and also perhaps the very essence of Bloch — it is imbued with the spirit of racial crying-out and the Eastern grandeur so often impressive in his music. The performances are magnificent. S. Fleming

## CHAMBER MUSIC

**DVOŘÁK: Trio in E minor, Op. 90** A-A  
("Dumky") A  
**SMETANA: Trio in G minor, Op. 15** A  
Trio di Bolzano  
Vox PL 10440

Though string quartet teams are quite numerous today, the piano trio combine is a rarity. The recorded performance of any trio from the wealthy repertory is a splendid dividend, doubly so when the instrumentalists understand the problem of proper blend between keyboard and string instruments and solve it to perfection. The Bolzano gentlemen also sense the broad sentiment that defines these works, but do not oversentimentalize their readings. In the Dvořák, the shifts from the melancholic to the exuberant are denoted clearly, the relationships sensitively expressed; no less defined is the tragic postulation of the Smetana. A bow to Vox for this splendid release. Can we hope for the other three Dvořák trios? A. Cohn

HANDEL: Sonata in G minor, Op. 2 No. 7 A-B  
 SARASATE: Navarra A  
 WIENIAWSKI: Three Etude-Caprices, Op. 18 B  
 BENDA: Trio Sonata In E  
 David and Igor Oistrakh, violinists;  
 Vladimir Yampolsky, pianist; Leipsig  
 Gewandhaus Orchestra under Franz  
 Konwitschny  
 Decca DL-9962 D. Oistrakh



Play a little game with yourself: as you are listening to this disc, try to detect which fiddler is father, and which is son. This won't be an easy game, either—each is fantastic, and together they are almost beyond belief! The Sarasate contains everything violinists can't do, but David and Igor toss it off as child's play. They are capable of far more than mere technical feats, however, and the tender and meditative Georg Benda Trio Sonata is beautifully realized. Only one thing mars this record; some distortion, especially on high violin notes. Otherwise, these performances are, if anything, too perfect. D. H. Miller

## VOCAL MUSIC

GESUALDO: Madrigals and Sacred Music A  
 Vocalists under Robert Craft A  
 Columbia ML 5234 B



These works, for the most part previously unavailable, remind us again of Gesualdo's powerful and original musical mind. His handling of dissonance and his remarkable chromaticism lend to these texts, all of which are pre-occupied with death, an urgency and poignancy that haunt the ear long after the music has ceased. These are mature works. The madrigals are chosen from Books 4, 5 and 6; two responses date from 1611 and the *Illumina nos* from 1603. This motet, which lacks two parts, has been completed for this recording by Stravinsky. The performance, which uses solo voices, is excellent: in tune, flexible, and rhythmically alive. J. Bowen

MOZART: Mass in C, K. 317; Vesperae solennes de confessore, K. 339 A  
 Wilma Lipp, Christa Ludwig, Murray Dickie, Peter Bender; Vienna Oratorio Choir and Pro Musica Symphony under Jascha Horenstein C  
 Vox PL 10.260 B Mozart



Two of Mozart's finest church works are coupled here. The *Coronation Mass* is rich in musical ideas, while the *Vespers* contains a "Laudate Dominum" whose soaring soprano solo is surely one of Mozart's happiest inventions. The performance, unfortunately, does not do justice to the music. The solo quartet sounds at odds with itself; Wilma Lipp, who often takes the lead in solo passages, is particularly disappointing. The chorus seems to be singing from far away and occasionally is not in tune. As for the orchestra, it gets through the score and not much more. J. Bowen

The Best of Caruso A to C  
 Enrico Caruso with various orchestras A to C  
 and accompanists in 30 songs and arias R  
 RCA Victor LM-6056 2-12" Caruso



The voice of the God of the Golden Age echoes once again from the vaults of the Victor Company in this collection dating from a fragment of *Una furtiva lagrima* recorded in February of 1904 to *Bois Épais* waxed in September, 1920. The dusty old masters sound even more threadbare than remembered (there has been very little "rehabilitation" or superimposing done on this album) but even so, the inexplicable glamour still resounds, the proof still remains that he was one of the greatest singers who ever lived on the face of this earth. He is surrounded here, too, by these immortals: Scotti, Gallucurci, De Luca, Homer, Ruffo, Journet, Farrar, and Alda. Perhaps the prize

of the album is *Sei morta nella vita mia* which Mrs. Caruso considered the most faithful reproduction of the voice ever managed. It is very beautiful indeed. D. Cross

Gloria Davy Concert Recital: Songs by Purcell, Brahms, Turina, and Poulenc A  
 Gloria Davy, soprano; Giorgio Favaretto, piano B  
 London 5395 Davy A



A full, warm soprano, dramatic temperament, and an innate musicality make this "debut recital" by one of the Met's newest sopranos an impressive beginning. Any faults it may have are those of over-eagerness. Too often the voice is used heavily, with a resulting monotony of color and an occasional throatiness and push, particularly at the top. Diction, too, needs work. Interpretively the Brahms seemed best. Both Purcell and Turina (Op. 19) suffered from a too-weighty production, while the irony and world-weariness of Poulenc's *Fiancailles à rire* were barely suggested. But Miss Davy is clearly an artist to watch, and one from whom we may reasonably expect steady growth. J. Bowen

## OPERA

GLUCK: Orfeo and Euridice A  
 Risë Stevens, Lisa Della Casa, Roberta Peters, Chorus and Orchestra of the Rome Opera under Pierre Monteux C  
 RCA Victor LM-6136 3-12" C

It is difficult to ascertain exactly what segment of the musical public this set aims to please. Lovers of beautiful voices will be disappointed by all but Della Casa, while those to whom vocal beauty is secondary to stylistic purity will be appalled. Even the artists' most ardent fans would probably prefer their idols in other roles. Stevens and Monteux are not only on the wrong side of their prime years but basically ill-suited to this classic score while the rest of the performers (including chorus and orchestra), are miscast. Phrasing, tempi, and dynamics all receive cavalier treatment and orchestral support is incredibly sloppy. G. L. Mayer

PONCHIELLI: *Lo Giocondo* B  
 Anita Cerquetti, Giulietta Simonato, Mario Del Monaco, Ettore Bastianini, Cesare Siepi, with the Chorus and Orchestra of the Maggio Musicale Fiorentino under Gianandrea Gavazzeni A  
 London A 4331 3-12" Del Monaco A



This recording captures all the virtues and all the frailties of Ponchielli's crazy, mixed-up tale of the black hysterics of the Inquisition as madly adapted by Boito from a play by Victor Hugo. When listening to this inspired but second-rate masterpiece one reflects anew upon the sublime musical contrasts of which Verdi was capable. "La Gioconda" races on like *La Scala* afire, never resting, *furioso* all the way through with characterization turn-about; that would challenge the virtuosity of a chameleon. The performances on this recording are all excellent, especially those of Cerquetti in the title role and the wonderful Simonato as Laura. Del Monaco's clarion power is all here too. The balance between chorus and orchestra sometimes seems a little distorted, but it is not a serious flaw. D. Cross

SCHÖNBERG: *Moses und Aron* C  
 Hans Herbert Fiedler, Helmut Krebs, soloists; Orchestra and Chorus of the Norddeutscher Rundfunk, under Hans Rosbaud B  
 Columbia K3L 241 Rosbaud B



Works and theories of Arnold Schönberg have exerted a profound influence on the music of our time. For recording his *Moses und Aron*, Columbia Recordings deserves to be commended; they must be thanked for presenting this three-disc package with ample notes and the libretto in both German and English. A graph of Schönberg's twelve-tone material is included and the annotator's explanation may make the music eminently clear to some listeners. Fortunately he informs us that in this work, "inversion (which, again is not necessarily the customary contour-interval inversion, but structural inversion of pitch classes) determines, for example, the symmetric property of dyads."

Although Schönberg felt that this work was fifty years ahead of its time, it is actually related to the music of the late 19th century: it is overcharged, tortured, tense and awkward. As a listening experience it is taxing. As an opera, and I do not really think it is one, it must present some serious problems, for the score calls for a naked young man and four naked virgins. This recording, taken from a broadcast, is anything but satisfying. Frankly, I think most listeners will consider it a bore despite its much proclaimed importance. O. Daniel

Alexander Kipnis in Russian Opera Scenes and arias by Mussorgsky, Tchaikovsky, Rimsky-Korsakov, Borodin, and Dargomijsky  
Victor Symphony under Nicolai Bere-zowsky  
RCA Camden CAL-415

Camden has performed another distinguished service to opera lovers by re-releasing these recordings of this great artist who was never fully appreciated in America. Here is true subtlety in opera characterization, and Kipnis, at his best, was capable of the thrilling intensity and dramatic power of that legend among Russian basses, Chaliapin. These records show their age a little, as does the voice on several of the cuts, but the *Farewell, Prayer, and Death of Boris*, for instance, is magnificently majestic and heart-breaking. The orchestra and chorus, though a little muffled, are quite exciting. D. Cross

Carlo Bergonzi Operatic Recital  
Arias by Verdi, Puccini, Meyerbeer, and Cilèa  
Carlo Bergonzi, tenor; Orchestra of the Accademia di Santa Cecilia, Rome, under Gianandrea Gavazzeni  
London 5346



Bergonzi is far from being just another Italian tenor. Within his first two seasons at the Metropolitan, he has established himself not only as the best on the roster but the best they have had in many years. The beauty of his voice extends over a wide range and he can adapt it with equal ease to both the tender lyricism of Puccini and Cilèa and the more dramatic Verdon line. That he has his equipment sufficiently under control for him to successfully dispatch the trill in *Ah, si ben mio* from "Trovatore" more or less tells the story. Lovers of fine singing should hasten to add this to their collections. G. L. Mayer

Flaviano Labo Operatic Recital  
Arias by Puccini, Ponchielli, Giordano, and Verdi  
Flaviano Labo, tenor; Orchestra of the Accademia di Santa Cecilia, Rome, under Fernando Previtali  
London 5408



Labo is not blessed with an instrument anything like the inherent beauty of Bergonzi's (see above), nor is his singing nearly as polished. He does, nevertheless, make a good impression due to his obvious understanding of the roles he interprets and the meaning of the music he sings. It is unfortunate that he must strain his resources to score his points. Since the major part of this recital calls for smooth legato singing rather than intense dramatic excitement, Labo is at a disadvantage. He sounds his best in the "Tosca" excerpts and is dramatically most effective in the "La Forza" excerpt. Previtali's pacing is leisurely but potent. G. L. Mayer

## KEYBOARD MUSIC

BACH: Two Part and Three Part Inventions  
Alexander Borovsky, piano  
Vox PL 10550



That famed and much-admired pianist Alexander Borovsky, who has given such brilliant accounts of many a large scale work, seems not to be on his most congenial ground in performing these deceptively simple little gems. Playing with a tone midway between that of a harpsichord and that of the modern piano, his performances in general sound dry and unimaginative, and the moods vary remarkably little from one *Invention* to another. Very good sound. B. Gabriel

BEETHOVEN: Piano Sonatas: No. 14 in C sharp minor, Op. 27, No. 2 (Moonlight); No. 26 in E flat, Op. 81a (Les Adieux); No. 24 in F sharp, Op. 78 (À Thérèse); No. 23 in F minor, Op. 57 (Appassionata)  
Robert Casadesus, piano  
Columbia ML-5233



Here is an especially well balanced program, beginning with the calm transparency of the *Moonlight* and working up a rising scale of tension to the *Appassionata*. On the whole, Casadesus leans toward understatement; the Op. 27 finale, for example, is not as buoyant as it might be, nor the Op. 57 first movement as dramatic. On the other hand, he can do wonders with sheer tone color. The opening of *Les Adieux* is marvelously distant to the ear, and draws closer as you listen; the passages of storm and stress, elsewhere, are not only close but vivid in sound. The understatement of drama, which arises,

I think, from a scrupulous refusal to exaggerate or distort rhythms for the sake of making a point, is compensated for by the variety of touch and appropriateness of color. Recorded sound is good. S. Fleming

BEETHOVEN: 32 Variations in C minor; Andante Favori in F; Bagatelle, "Für Elise"; Six Bagatelles, Op. 126; Ecossaises in F flat  
Andor Foldes, piano  
Decca DL-9964



Foldes has no serious competition in these seldom-heard variations which Beethoven used as exercises for his students. They could be dull in a student's hands, but Foldes' superb technical command and imagination make them good listening. *Für Elise* is taken a bit slowly for my taste, but the six *Bagatelles* get their best recording to date. The *Ecossaise* is rightfully frothy. Unusual item is the *Andante Favori*, the original slow movement of the *Waldstein Sonata* which Beethoven replaced but retained as a separate opus. Good sound, clear and undistorted. W. Stegman

CHOPIN: The Four Scherzi: No. 1 in B minor, Op. 20; No. 2 in B flat minor, Op. 31; No. 3 in C sharp minor, Op. 39; No. 4 in E, Op. 54  
Ruth Slenczynska, piano  
Decca DL-9961



Although Miss Slenczynska exhibits laudable technical abilities, it is her distortion of Chopin's written directions that spoils her performance for me. Possibly as an attempt at coloristic contrast, her tempi in the less declamatory middle sections of these pieces are invariably slow, to the point of distention of phrase and thematic line. A tendency toward *rubato*, particularly where the markings are clearly *risoluto* or *sostenuto*, or where the rhythmic design obviously depends upon consistently strict metrics in repetition while building to a climax, further aborts the composer's intent. The reproduction is realistic, although the treble takes on a clang in passages of greater assertiveness. A. Kaine

FRANCK: Pièce Héroïque; Three Chorales: No. 1 in E, No. 2 in B minor, No. 3 in A minor  
Marcel Dupré, organ  
Mercury MG-50168

Virtually every present-day organist of note takes pride in his tutelage under Dupré. Now in his seventies, the Master is still Master, ready at the drop of a step to develop a given theme into a glorious fantasy with brilliant fugues and intricacies. His skill and authority give new life to these Franck pieces. But no less praise is in order for the engineering skill which combines Dupré's wizardry and dramatic flair with the excellent Aeolian-Skinner organ at St. Thomas' Church, in New York City. First-rate reproduction and a distinguished companion to Dupré's earlier Mercury release (MG-50169). W. Stegman

LISZT: Transcriptions from Operas  
Alfred Brendel, piano  
Vox PL-10.580



A most interesting disc, both from the historical point of view as well as the pianistic. Many of the Liszt operatic transcriptions no longer appear on concert programs today, but are none the less a fascinating listening experience when performed with a dazzling technic and the "grand manner". Alfred Brendel has flair, speed, and brilliance to burn. One hopes that soon other Liszt transcriptions, such as the "Don Juan" fantasy, may be added to the "Lucia", "Norma", "Oberon", "Tannhäuser", "Tristan" and "Cellini" here represented. Excellent sound. B. Gabriel

## MISCELLANY

Julie Wilson at the St. Regis  
With the Marshall Grant Trio  
Vik LX-1118

Here's another "on-the-spot" album recorded in the *Maisonette* of New York's St. Regis Hotel before a noisily sipping and supping and not altogether responsive little audience. Julie Wilson has talent but it is not always in evidence in this one dimensional performance of songs and special material; most of it falls pretty flat from a listening point of view, and much of it is unamusingly vulgar. Personal appearance recordings are fun if they capture the over-all scope of an entertainer's delivery, which is a pretty tricky thing to do on a record. No "Lena Home at the Waldorf", this. D. Cross

## FOLK

### Folk Songs

Marilyn Child and Glenn Yarbrough  
Elektra EKL-143

A-B  
A-B  
A  
Yarbrough



Marilyn Child and Glenn Yarbrough first began singing together in 1957 at Chicago's celebrated basement bistro "The Gate of Horn", and their dynamic, highly personal styles are perfectly suited to each other. Whether or not they are entirely suited to folk songs is a question which the individual listener must answer for himself: some of their interpretations are a little too slick for my taste. Nonetheless, this lively and listenable collection contains many fine songs, including "Weel May the Keel Row", "Buffalo Boy" and "Now Let Me Fly". Fred Hellerman's expert guitar accompaniments also merit high praise.  
R. Sherman

### Jewish Folk Songs

Theodore Bikel  
Elektra EKL-141

A  
A  
A  
Bikel



In his excellent liner notes, Mr. Bikel writes: "I sing of my own people's heritage, in words that were my own family's usage and with melodies I knew even before I could say words at all." Indeed, it would be difficult to imagine it being otherwise, so perfectly does he capture the peculiar inflections and the nostalgic mood of these delightful Yiddish songs. The performances have a winning blend of tenderness, charm and spontaneity, and fairly bubble over with humor and warm understanding. Half the songs, incidentally, have guitar accompaniments, while the rest are in colorful (if sometimes distracting) orchestral settings.  
R. Sherman

### Music and Songs of the Caribbean

The Millard Thomas Group  
Victor LPM-1551

B  
B  
A

The name of Millard Thomas will be familiar to many as the guitarist whose deft accompaniments have enhanced many of Harry Belafonte's recordings. Now with his own group, Mr. Thomas presents a pleasant, but undistinguished set of Caribbean songs in popular cafe-style settings. Four of the numbers are instrumental, while the others feature vocals by William Dillard and the Bey Sisters who sing with charm and taste, but without the lilting sparkle we usually associate with this music. In short, this is an agreeable Belafonte-type recording, without Mr. B's compelling vitality and warmth. Clean recorded sound.  
R. Sherman

### The Shanty Boys

Elektra EKL-142

B  
B  
A



An interesting collection of (mostly) American songs is performed with obvious relish and lots of spirit by this new trio. I cannot help feeling, however, that the group is not taking full advantage of the individual talents within it. For instance, all but two of the songs have solos by Mike Cohen, and Roger Sprung's banjo dominates almost all the accompaniments, with a resultant lack of variety and color. When occasionally this pattern is altered (when, for example Lionel Kilberg sings *Home in that Rock* with a fine guitar backing by Mr. Cohen), it comes as a refreshing and welcome change. Excellent recorded sound.  
R. Sherman

## STAGE AND SCREEN

### Gigi

Gogi Grant, Tony Martin with Dennis Farnon and orchestra  
RCA Victor LPM-1716

A  
B  
A  
Martin



Jumping the gun on the release of the film, Victor has made up a fine album of the songs from the Alan Jay Lerner-Frederick Loewe score, which must rank with the finest ever written for a movie. This is particularly true of the distinguished melodies by Loewe, who has come up with some delightful

waltzes in this Dark Age of Rock 'n' Roll. Miss Grant and Tony Martin do well with the songs and are given particularly apt accompaniment by the Farnon band, but many may want to await the release of the original cast album to hear Maurice Chevalier do his numbers, sung here by Tony Martin. Still, there's nothing wrong with Martin's fine singing of the excellent title song.  
E. Jablonski

Hans Brinker or The Silver Skates A  
Tab Hunter, Peggy King, Jarmila Novotna and Irwin Kostal and orchestra A  
Dot DLP 9001

Hugh Martin, of the excellent Martin and Blane team, supplied the music and lyrics for a recent TV production of the old classic "Hans Brinker." Martin's score is a most delightful one and the songs possess a special springtime vivacity, gaiety and sprightliness. Excepting Miss Novotna, there are no great voices in the cast, but like the songs, the voices of Tab Hunter and Peggy King lend a youthful, relaxed, quality to the performance. High spots: Miss Novotna singing *Trinka Brinker*, Peggy King's *I Happen to Love You*, the orchestra doing *Silver Skates*, and Tab Hunter's *Hello Springtime*.  
E. Jablonski

South Pacific A  
Mitzi Gaynor, Giorgio Tozzi, and other voices of the original soundtrack recording. Orchestra and Chorus under Alfred Newman A  
RCA Victor LOC-1032

Luxuriant, orchidaceous are two adjectives that might be employed to describe this voluptuous recording of the beloved Rodgers and Hammerstein score now out in "Todd-AO." Perhaps this does not have quite the vitality of the Columbia original cast album, but there will be no odious comparisons here. All the performances are splendid, especially that of Giorgio Tozzi who sings the role of de Becque for the soundtrack. The lyrics remain intact, too, even though the chorus seems hesitant to deliver the lustier ones with quite the rowdy bravado they call for. Only complaint: Victor should be roundly scolded for not listing all the principal singers—neither in the liner notes nor on the record labels.  
D. Cross

## POPULAR

Dream Street A  
Tommy Leonetti with Marion Evans and his orchestra A  
Vik LX-1111 Leonetti



Shades of the Good Old Days! Remember when they wrote songs like *Lost in a Fog*, *Am I Blue?*, *What Is There to Say?*, *Lucky in Love*, *The Way You Look Tonight*, *Now I Know* (an unduly neglected Harold Arlen song), and *Deep Purple?* These, plus five others almost equally good, are sung by a young man who knows how to sing them. Tommy Leonetti has a warm, smooth, baritone; he also has a fine sense of rhythm which keeps the pacing of this album from dragging—made up, as it is, mostly of ballads. The arrangements by Marion Evans, and the backing, are unobtrusive and sensitive yet not overly sentimental. An excellent song collection beautifully done.  
E. Jablonski

Hims B to C  
Anita Ellis with orchestra under Hal Schaefer A  
Epic LN 3419

The only reason for this review is the presence of Miss Ellis on this otherwise disappointing record. Here is one of the finest voices around, with range, quality, and fame among lyricists who love to hear every syllable sung clearly and intelligibly. But except for a few of the songs, there are few melodious syllables particularly worth hearing. Trying to fit each and every song into the idea of the album's title inevitably led to some pretty sad choices of rather mediocre material. The good includes the Kern-Wodehouse *Bill, Weill and Nash's That's Him*, Sissle and Blakes' *I'm Just Wild About Harry*, and an affectingly sung *Danny Boy*.  
E. Jablonski

The Many Sides of Pat Suzuki A  
Pat Suzuki with Henri Rene and His Orchestra A  
Vik LX-1127

Miss Suzuki, a small bombshell from out California way, possesses the most exciting vocal talent I have heard in much too long a time. Not only does she have an amazing range and power, she also has a voice of true musical quality, and the intelligence and control to use it effectively and beautifully. Further, Miss Suzuki has the other rare gift (lacking in so many fine pop singers): the ability to choose material which not only showcases her voice but which is of high quality on its own; so here we have Cole Porter's *From This Moment On*, Ellington's *Solitude*, Kay Swift's *Fine and Dandy*, and just about the most beautiful rendition of *Latouche and Moross' Lazy Afternoon* I have heard.  
E. Jablonski

# JAZZ

**Critics' Choice**  
Pepper Adams  
World Pacific PJM 407

B  
A  
A  
Adams



Nowadays the jazz musician is unknown on Sunday, a new sideman in town on Monday, leader on his own LP on Tuesday, and a *Down Beat* poll winner Wednesday. Too often this means that he is forgotten by Thursday, but in Adams' case the sudden fame may endure, for this baritone saxophone player from Detroit shows an admirably intelligent absorption of early and later jazz influences. In six long exercises he offers a standard (*Alone Together*) and five original lines, written by himself and other Detroit musicians. Trumpeter Lee Katzman is competent and the rhythm section (Jimmy Rowles, Doug Watkins, Mel Lewis) propels Adams energetically through both impressive sides. Liner notes: John Tynan. Helpful background on Adams and track-by-track analysis.

L. Feather

**Selections of Rodgers and Hammerstein** B  
Australian Jazz Quintet C  
Bethlehem BCP 6022 B

Novelty seekers will find much of interest here; jazz hunters may observe that the ambidextrous doubling of bassoon, flute and other timbres is not an end in itself. Many of these tunes have been recorded before, sometimes with greater impact, during the show-tune jazz vogue of the past year. More interesting than the tricky arrangements are Bryce Rohde's incisive piano solos and Errol Buddle's tenor sax. *Hello, Young Lovers*, which in this treatment might have been retitled *The Sledgehammer Waltz*, is a particularly unfortunate malperformance. Liner notes: Dom Cerulli. Good, but the personnel box, with drummer Osie Johnson listed as a bassist, is vague and confusing.

L. Feather

**Jazz from the San Francisco waterfront** C  
Burt Bales and the Marty Marsala Band B  
ABC-Paramount 181

Recorded before an audience in a Carmel, California auditorium, this session does a surprisingly effective job of applying artificial respiration to six overwrought Dixieland standards. Bales, a happy-music-style pianist, is one of several capable soloists in the Marty Marsala combo featured here. Among the others are a Teagardenish trombonist named Skipp Morr and a blind clarinetist, Vince Cattolica. Recommended for the listener still capable of maintaining diplomatic relations with *Hindustan*, *Tin Roof Blues*, *Muskrat Ramble*, *Baby Won't You Please Come Home*, *Save It Pretty Mama*, and *King Porter Stomp*. Liner notes: Ralph J. Gleason, who produced the album. Enthusiastic and informative.

L. Feather

**The Roaring Twenties** A  
Eddie Condon and his All-Stars B  
Columbia CL1089 A

Condon



When you've heard them all, you've heard one Eddie Condon record. As always, there's a gimmick linking the twelve tracks (this time, dedications—*Monday Date* to Hines, *Davenport Blues* to Bix, etc.), and as expected, the pristine jazz roars its way into the late '50s unchanged by bop, the State Department, or the *Saturday Review*. The proceedings are consolidated by the presence of such irregular Condonians as trombonist V. Dickenson (*Wolverine Blues*, *China Boy*, *St. James' Infirmary*, *That's a Plenty*), Billy Butterfield, and eight others). Liner notes: Two sets—redundant and conflicting, but entertaining.

L. Feather

**Urbane Jazz** B  
Roy Eldridge and Benny Carter A  
Verve MG V-8202 B

Two great veteran jazzmen improvise top flight jazz with a fine three-man (no guitar) rhythm section. There are four ballads for Carter's polished, gently rocking alto saxophone, and Eldridge's, taut crackling trumpet builds repeatedly to explosive climaxes. Listen especially to the teamwork on *Polite Blues*, *The Moon Is Low*, and *Close Your Eyes*. Another four numbers show Roy's mettle in a real exercise as he improvises with only drums backing his horn. Finally, he pounds boogie woogie chords out on an old upright piano with drum accompaniment, then re-records a searing trumpet solo over the piano and drums to make an unique *Wailing*. Recommended for all jazz lovers, polite or otherwise.

C. Graham

**Ellington Indigos** B  
Duke Ellington and his Orchestra A  
Columbia 1085 A

Ellington



In an era of "Sam Zero Digs the Duke" (usually with Duke's picture, and none of Zero, on the LP cover, to insure deception of unwary buyers), it is ironic to find, on a mood-music LP by the real Duke, five out of nine songs not written by him. Most tracks are solo vehicles: *Mood Indigo* for Shorty Baker's trumpet, *Where or When* for Gonsalves' tenor; *Tenderly* for Hamilton's clarinet. The Ozzie Bailey vocal on *Autumn Leaves* is expendable. This is not Duke in depth, but Sam Zero in his brightest shining hour could never duplicate its affectionate glow. Liner notes: Irving Townsend. One small error: *The Sky Fell Down*, not "Duke's newest song", was recorded in 1942 as *Someone*. Label lists a nonexistent Jimmy Grissom vocal on *Tenderly*.

L. Feather

**Gil Evans and Ten** A  
Gil Evans and His Orchestra A  
Prestige 7120 A

Here is what could have happened to the dance band business if it had lived. Evans draws more color and life from ten men than, say, Glenn Miller ever could from twenty; more, his music swings, and at the same time gives adequate space and admirable settings to the soloists, who include Steve Lacy on soprano sax, Jimmy Cleveland on trombone, and Evans on piano. The seven tunes comprise Berlin's *Remember*, the traditional *Ella Speed*, Leonard Bernstein's *Big Stuff*, Rodgers' and Hart's *Nobody's Heart*, Cole Porter's *Just One of Those Things*, Tadd Dameron's *If You Could See Me Now*, and Evans' own *Jambange*. Liner notes: Ira Gitler. Excellent.

L. Feather

**Ella Fitzgerald Sings the Duke Ellington Songbook** A  
Verve MG V-4010 (4 LPs) A

Fitzgerald



In this extraordinary album Ella Fitzgerald sings over 35 Ellington songs many of them all time favorites. She is assisted on four LP sides by the entire Ellington organization, and on four more sides with two different rhythm groups which include various fine backings and solos by irrepressible hot violinist Stuff Smith and tenor saxophonist Ben Webster. Ella caresses, glissandos and belts her way, alternately happy and blue according to lyrics, through all the tunes so that the least comes through well served, the best as small masterpieces. Among the specially-to-be-replayed are *Rockin' in Rhythm* and *Cottontail*, both instrumental specialties in which Miss F. is at her wordless bopping best. The handsome album is almost worth the price of admission for the wealth of background material and pictures alone, 19 pages in all, with text by Leonard Feather.

C. Graham

**The Harris Touch** B  
Bill Harris A  
EmArcy MG 36113 B

Harris



## RATINGS OF JAZZ AND POPULAR RECORDS AND TAPE

It must be obvious to everyone that popular music, jazz and music of the theatre and motion picture, cannot be rated in the same manner as classical music, save for the audio quality of the records. Therefore, the following explanation is given so that you will fully understand the significance of the three letters which appear at the left of reviews of popular, jazz, theatre and motion picture albums:

### COMPOSITION (Top Letter)

**A: Extraordinary**  
Indicates that the collection is of superior character, both from a standpoint of material and programming. Assignment of this rating means an unqualified recommendation.

### B: Good

In general the collection is excellent, but additions or substitutions might have made the work more attractive and more lastingly enjoyable.

### C: Satisfactory

A collection that is highlighted by only a few numbers yet the over-all is quite acceptable. This might often apply to collections that have a limited appeal, yet are important to those who specialize in specific types of music. It might often apply to collections of historic importance where the artistic performance is the primary factor.

### PERFORMANCE (Middle Letter)

**A: Extraordinary**

Indicates a superior performance throughout the collection. Assignment of this rating means an unqualified recommendation.

### B: Good

In general the performance is excellent, save that there are minor imperfections or breaches of artistry.

### C: Satisfactory

To all intents and purposes an enjoyable recording, yet one that does not qualify for B rating.

### RECORDING QUALITY (Bottom Letter)

A, B, C: The same as for classical recordings.  
R: Indicates re-issue.

Bill Harris' approach to jazz guitar has been amplified, in two senses, since the release of his first LP last year: on the present sides he plays electric as well as traditional Spanish guitar, and he is accompanied by a rhythm section (unidentified in the notes except for pianist Hank Jones). The striking *Rock Bottom Blues* is one of five Harris originals included. It is incredible that a man with this talent should have been forced to make his living, for the past eight years, as accompanist to a rock-and-roll vocal group. Perhaps a couple of more albums like this may earn him parole. Liner notes: Unsigned. Well-written, but factually incomplete. L. Feather

The Big Reunion B  
Fletcher Henderson All Stars in Hi-Fi B  
Jazztone J1285 B

Henderson, who died in 1952, had a big band from 1923-39 that included, at one time or another, most of the men present here, including cornetist-leader Rex Stewart. The reunion shows that some of these 40 to 55-year-old veterans (Hawkins, Webster, Higginbotham, Bailey) retain the fire of youth; others betray technical superannuation. Old arrangements (*Sugar Foot Stomp*, *Wrappin' It Up*, *King Porter Stomp*) stand up well in elongated and reasonably clean treatments; new scores by Jim Timmens are ineptly written and played. An interesting essay in nostalgia. Liner notes: By George Simon, who produced the session. Thorough solo credits, but nothing about Henderson's historic role. L. Feather

Man, We're Weilin' B  
Louis Jordan and His Tympany 5 A  
Mercury MG 20331 A

Jordan, who virtually originated rock-and-roll when he started his band twenty years ago, evidently was unable to obtain a copyright and prevent its degeneration. His own brand remains tasteful, still swings, and qualifies as joyfully unpretentious jazz in which his admirable singing predominates, with support from Jackie Davis' Hammond organ and a rhythm section. *Route 66* has a jaunty, Dinah Washingtonesque vocal by Dorothy Smith. Jordan fares less well as a ballad singer on *I Never Had a Chance*. His alto sax peeks in effectively from time to time. Liner notes: Incomplete personnel details: two guitarists are named (Irving Ashby, Austin Powell) with no indication who plays on what. L. Feather



The Astounding Bernard Peiffer A  
The Bernard Peiffer Trio B  
Decca DL-8628 A

Peiffer's prodigious technique astounds even Peiffer so much that he tends at times to swallow the whole keyboard. But Tatum himself had his florid moments, and the Frenchman, like Tatum, can outswing and out-ideate just about any pianist living. His *Requiem for Art Tatum*, written immediately after the latter's death, is a mood masterpiece; his *Prelude, Fugue and Trio on Lullaby of Birdland* is a trifle too vaudevillian in concept, but such items as the simple, swinging blues titled *Pied Peiffer* are ample compensation. Ernie Furtado Johnny Cresci accompany on bass and drums. Liner notes: By Barry Ulanov, Peiffer's first and most vocal U. S. fan. Excellent. L. Feather

Blues in the Closet A  
The Bud Powell Trio A  
Verve MGV 8218 B

Powell, the 1940's prime jazz piano influence, reflects his erratic personality in variable LPs. This one was cut two years ago on one of his better days and with an unprecedented rhythm section (Ray Brown, bass, Osie Johnson, drums). Much of the material is early bop (Gillespie's *Woodyn' You* and *Be-Bop*; Monk's *52nd Street Theme*, Parker's *Now's the Time*) plus two blues by Oscar Pettiford, a Powell original and five standards. In contrast with the innumerable pallid imitations that have arisen in the past decade, the mordant and facile single-note lines of this ill-starred originator carry more impact than ever. Liner notes: Nat Hentoff. No information on tunes or performances, but a sensitive and helpful evaluation of Powell. L. Feather



Movin' In A to B  
Specs Powell & Co. A to B  
Roulette R 52004 B  
Powell B

Locked in CBS studio work for 15 years, drummer Powell returns eagerly to jazz, leading an 11-piece band in arrangements by Ray Copeland. Many vigorous and compelling modern jazz moments both in solos and ensembles, notably by Sahib Shihab, baritone sax; Hank Jones, piano; J. Cleveland, trombone. A highlight is Powell's rocking *Spyder Blues*. *Undecided* is decidedly unconventional. Liner notes: Dizzy Gillespie. The idea of having musicians write liner notes is admirable, though these fail to distinguish between personnel of different sessions. L. Feather

Portrait of Shorty C-B  
Shorty Rogers and his Giants B-B  
RCA Victor 1561 A-A  
Way Up There  
Shorty Rogers and his Giants  
Atlantic 1270



Rogers

After running up a discography that would measure at least six inches more than Shorty himself, California's most recorded musician inevitably finds it increasingly hard to bring any element of surprise into each new LP. The Victor session, played by a big band with slick soloists, a few of whom achieve some degree of individuality (Pepper Adams, Richie Kamuca), sounds too often like a dehydrated version of something the Basie band could have done with more attack and soul. The Atlantic set, recorded earlier, is far superior in its use of five different instrumental groups, mostly smaller and less formalized, with excellent solo moments from Harry Edison, Jimmy Giuffre and the usual west coast clique. Liner notes: Here again Atlantic scores, with an amusing, never-too-earnest essay by Jack Tracy. L. Feather

The Art Totum—Ben Webster Quar- A  
tet A  
Verve MGV 8220 A

Ben Webster complains that his reverence for Tatum made him nervous, that he played out of tune, and that in *Have You Met Miss Jones* he was dealing with a tune he had never heard before. His ear must be keener than mine, for I heard nothing but sheer beauty. True, Ben sounds like two instruments; one, his tenor sax, the other, his afterbirth of breath lingering on the final note of each phrase; yet the impact on these superb ballads (*All the Things You Are*, *My Ideal*, *Night and Day*, *Where or When*, *Gone With The Wind*) is incomparable. The superb Buddy De Franco—Tatum LP, also a triple-A item, has at last been issued on Verve 8229. Liner notes: Fine on Webster, unfair in curt dismissal of De Franco. L. Feather



Out on a Limb C  
Clark Terry B  
Argo 620 B  
Terry

Terry, an Ellingtonian since '51, is still far short of due recognition as one of the two or three most original trumpet players in jazz. This is partly his own fault; on these sides, for instance, surrounded by unnamed mediocrities, he tends too often toward trick effects, too seldom to honest expression. Material includes battle-fatigued standards like *Caravan* and *Basin Street*. Yet there are wonderful moments, and the set must be recommended to dedicated Terry fans. Liner notes: Refer to Terry's "majazztic musical ability," state that "more and more gophers go for him", etc. Name none of the Chicago musicians involved except reedman Mike Simpson. L. Feather

Leroy Walks A  
Le Roy Vinnegar Sextet A  
Contemporary C-3542 A



One of the best jazz LP's of the year. Contemporary is to be congratulated on providing this forceful answer to the complaint that west coast jazz is anaemic and that a handful of men monopolize the studios. Here are such under-recorded, under-recognized soloists as Gerald Wilson, trumpet, Teddy Edwards, tenor, Carl Perkins, an exceptional pianist, and Vic Feldman, brilliant British vibraphonist. Tunes are excellent standards, with "Walk" or "Walkin'" in six of seven titles. Vinnegar is the spiciest jazz condiment since Art Pepper. Liner notes: Nat Hentoff. Splendid. L. Feather

Stable Mates B  
Sevoy MG 12115 A  
B  
Lateef



The stable is a curious place for these mates, who are partners under Islam: A. K. Salim, arranger, leads an octet on one side while Yusef Lateef, composer, plays admirable jazz flute and leads a quintet in three of his own tunes on the other side. The Salim group, in addition to such familiar names as Kenny Burrell and Tommy Flanagan introduces promising newcomer, John Coles on trumpet. An exciting young trombonist, Curtis Fuller, enlivens the Lateef side. Liner notes: H. Alan Stein. Short but adequate. L. Feather



*This is the way John Hammond arranged the two loudspeakers when he changed from a monaural to a stereo system*

## *Changing from Mono to Stereo Music*

Here's an Idea for You If Your Equipment Is Old-fashioned — *By Charles Graham*

**W**HETHER it's tape, radio, or now records, hi-fi talk is about stereo these days. Oh, there are some holdouts, to be sure. Others insist that two speakers on monaural music are just as good as stereo, but almost invariably those who hold that opinion admit, when asked, that they haven't heard stereo music.

This observation seems to apply to the producers and engineers in the recording studios, as well as to the non-professional hi-fi enthusiasts. John Hammond, for example, is numbered among those who have converted their monaural systems to stereo, as I learned during a recent visit at his home. You probably know him as a director of the Newport Jazz Festival, and director of artists and repertoire for Vanguard Records. Equally at home in jazz and serious music, his activities have ranged from being Benny Goodman's chief advisor and talent scout during Goodman's reign as King of Swing, to persuading Friedrich Gulda, the European pianist, to come to the United States.

### **A Good System, but an Old One**

The change from monaural to stereo reproduction is bringing about the up-dating of many installations. John Hammond's equipment was installed in the early 40's. It consisted of a professional transcription turntable, a massive custom-built amplifier with 2A3 tubes in push-pull, and two theatre-type speakers. Some time back, the old arm

and crystal pickup were replaced by a new Pickering arm and magnetic cartridge and preamp. Also, he had added a tape machine.

Thus, the performance was excellent, even from this odd assembly of old and new equipment. In fact, that massive amplifier is probably equal to the best of the more compact and less expensive types made today. But it wasn't a stereo system.

### **The Change to Stereo**

The accompanying photographs, taken in John Hammond's New York apartment, present an excellent example of transition from a monaural to a stereo system, and show how it can be done without discarding good equipment previously in use. In this particular case, the only items replaced were the old monaural tape machine (even that could have been converted to two channels), and the pair of theatre speakers, for which he substituted the two A-R's you can see on each side of the fireplace.

You will see the connections for the system in the block diagram. Added components are the Madison-Fielding FM-AM tuner, with separate circuits for picking up stereo broadcasts; a Tandberg stereo tape machine; and a 30-watt Fisher amplifier. The old amplifier is in the cabinet beneath the new tuner. Incidentally, the tuner has a switch to turn on FM, AM, or both at the same time for listening



The new FM-AM stereo tuner above, and 30-watt amplifier on the bottom of the cabinet. Below the tuner is the old amplifier, still used, and good as ever

The stereo tape machine does double duty. John Hammond uses it to play stereo tapes, and also dictates to it when he is working on the text of his new book



to stereo broadcasts now increasingly frequent in the New York metropolitan area.

In the block diagram, two preamps are indicated. At present, the left-hand preamp, connected to the original amplifier, is only a switching device. A second, new amplifier will be installed for the left-hand channel, however, when the phono pickup is changed to a stereo type. Meanwhile, however, extra pre-amplification is not needed because the outputs of the tuner and the tape machine (with built-in 3-watt amplifiers on each channel) are ample to drive the power amplifiers directly.

When he plays stereo tapes, Hammond sets the volume control for each amplifier, so as to balance the sound coming from the loudspeakers; then he adjusts the master volume control on the tape machine to raise or lower volume on both channels. He also finds the 3-position speaker switch on the Tandberg very useful. This is the switch marked UPPER TRACK, LOWER TRACK, and OFF. It allows him to switch the built-in speaker of the recorder from the left-hand channel to the right-hand one, so that he can listen to the sound coming from either channel right at the tape machine, comparing it with the sound from the main system speakers on either side of the fireplace.

John Hammond had a particular reason for choosing the Tandberg tape machine. In addition to using it for his system at home, he plans to take it along when he is away from home. Since it has two built-in amplifiers and one loudspeaker, it will only

be necessary to take along an extra speaker in order to use the machine for stereo reproduction.

In addition, he is now working on a book, and he is using the machine, set at slow speed, for dictation, thereby getting double duty from it.

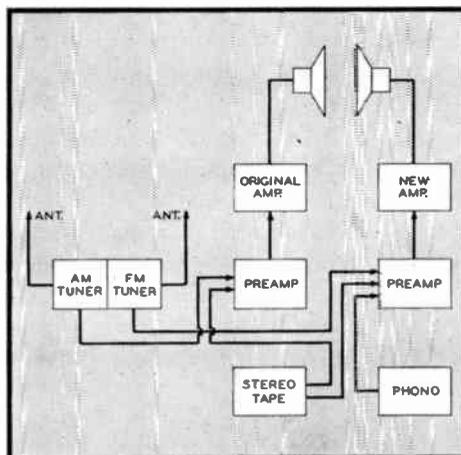
At the time the accompanying photographs were being taken, a piano was on its way to an upper apartment in the house where Mr. and Mrs. Hammond live. Idly curious, I asked about it, and was told that it was being delivered to Arthur Miller, whom you may know as a playwright, a Pulitzer Prize winner, and husband of Marilyn Monroe. Since the Hammonds and the Millers are friends as well as neighbors, there may soon be another stereo installation right there in the same building!

#### It's Easy to Change

This basic conversion plan can be adapted to practically any existing hi-fi installation. Even in small apartments or in homes where living room space is limited, the change creates no difficulties, particularly because such excellent stereo quality can be obtained from speakers in relatively small enclosures.

To add stereo tape reproduction to any monaural system, only a stereo tape machine, a power amplifier, and a loudspeaker need be added. Along with these, a second radio tuner will provide reception of stereo broadcasts. Then, to play stereo records, it is only necessary to change to a stereo pickup, and to add a preamp.

Block diagram showing the old and new components



# Battle of the Stereo Discs

*RCA Victor and Columbia Come out Swinging Names, Claims, and Counterclaims*

**Y**OU CAN put down April 3, 1958, as the day when the first guns were fired in the Battle of the Stereo Discs. For on that date, Columbia gave a demonstration for the press of their "Compatible Stereo" system at the CBS Building on East 52nd Street in New York, while RCA was holding a similar demonstration of their "True Stereo" system at their East 24th Street headquarters.

Columbia announced that they would cut their discs in a manner they have developed because the Westrex method to be used by RCA does not produce compatible discs, *i.e.*, they are not intended to be played with both monaural and stereo pickups.

RCA Victor announced that they will cut their discs with the Westrex method<sup>1</sup> because the Columbia system is only a compromise, in that it does not deliver true stereo reproduction.

In these demonstrations, only RCA offered an opportunity to compare reproduction from an original stereo tape with the corresponding stereo record. The tape was definitely superior, particularly as to background noise. Undoubtedly, that would have been the case if Columbia had offered a similar comparison.

## Demonstration Methods and Conditions

Always, demonstrations of this sort are held for the purpose of proving some particular point. In this case, RCA undertook to show that their "True Stereo" discs were superior to what they called the Columbia "compromise" discs, while Columbia's purpose was to prove that their "Compatible Stereo" can be achieved without sacrifice of stereo quality.

Under these conditions, it is difficult, in the course of listening to brief samples of music produced in different ways, for a total of perhaps 30 minutes, to arrive at truly definitive opinions. It is only possible to say that each company proved the points it undertook to establish.

RCA's demonstration was more spectacular sound-wise, for the stereo effect and the quality, except for the scratch, was excellent, and greatly superior to monaural reproduction from one channel of the stereo pickup. The latter, as might be expected, was inferior to a monaural recording of the same music. A record described as having been cut by the Columbia method sounded inferior to the RCA stereo records.

Columbia's undertaking was to prove that their compatible records could be played with either a stereo or a monaural pickup. Their stereo effect was also excellent, but reproduction from a monaural pickup suffered by comparison because only one speaker was used. It would have been improved somewhat if both speakers had been

connected to the same amplifier. One 45/45 record played with the Columbia stereo pickup suffered by comparison with the Columbia "Compatible" records. There was no way to check the wear on the record from a monaural pickup, of course, but the statement was made that tests showed it to be no more than with a stereo pickup.

## Columbia's "Compatible System"

For patent reasons, Columbia has not released the full details of their system. It was explained in a brief manner as employing a new method of recording in which the left and right channels are added together and recorded laterally, while the left channel minus the right channel pass through an "automatic stereo recording amplifier" called "ASTRA" to be recorded vertically. Thus

$L + R = \text{lateral cut} = \text{monaural effect}$

$L - R = \text{vertical cut} = \text{stereo effect}$

The vertical component is small compared to the lateral component, thus reducing the vertical compliance of the stylus necessary to hold the wear on the grooves to that of a monaural record and pickup. And since the lateral cut combines the left and right channels, normal monaural reproduction is obtained from any monaural pickup.

No special circuits are required between the Columbia pickup and the preamp-amplifiers. For the demonstration, the pickup was connected directly to two Bogen DB130's.

## The Future of Stereo Records

Both the Westrex and Columbia methods of cutting master records are available to other record manufacturers. Unanswered still, however, are the questions:

1. Will the Westrex or the Columbia system become the industry standard?

2. Is it necessary to make stereo records that can be played with monaural pickups, since the Westrex and Columbia types of stereo pickups can play monaural records?

Only time can give us the answer to the first question. Hi-fi enthusiasts, dedicated to audio quality, will prefer out-and-out stereo discs, rather than risk a concession to compatibility. On the other hand, it is probable that a larger number of stereo records will be bought by people to whom the standard of reproduction is what they have been hearing from 4-in. speakers, side-mounted on table-model TV sets. And these people will play their stereo records on packaged equipment of no more than medium-fi capabilities. They will probably make the decision, unless a determination is arrived at by the manufacturers.

As for compatibility, that seems more important to the manufacturers than the users. It is a factor in sales — a sales gimmick, if you please — to offer records that can be played with your monaural phonograph now, and with a stereo phonograph if and when you

*Continued on page 50*

<sup>1</sup>For information on the Westrex system used by RCA Victor, see "Some Facts about Stereo Records" by Charles Graham, *Hi-Fi MUSIC*, January-February 1958.



Fig. 1. Rear, front, and inside views of a master switching and volume control unit for stereo systems using separate preamps and amplifiers

# Master Stereo System Control

## Dual Volume Control and Mono-Stereo Channel-Switching Unit

CHANGING from monaural to stereo reproduction is a tremendously interesting experience, but if you have made the change by adding a second preamp, amplifier, and speaker, you will soon discover that there is a very annoying lack of flexibility in your system. It shows up in three ways:

1) Each time you change the volume level on stereo, you must re-balance the two channels, since the volume controls are on separate preamps; 2) when you change to a monaural source, only one speaker will operate unless you change the wiring; and 3) you'll have to change the leads to the speakers if you want to reverse the channels. You may not mind making the changes the first few times, but soon you will come to feel that it is a most awkward arrangement.

One way to correct this situation is to discard the individual preamps, and get one of the new stereo models. A simpler and much less expensive solution is to keep your separate preamps, and add a Scott Stereo-Dapter. Fig. 1 shows the details of this device, with a block diagram in Fig. 2.

Basically, this unit provides switching and a master gain control for whatever is fed into the preamps, since it is inserted between each preamp and its corresponding amplifier. Fig. 2 shows the use of monaural and stereo tape machines, stereo tuner, and monaural and stereo phonographs, although a particular system might not have all these sources. Many people, however, will use a monaural pickup in a record-changer, and a stereo pickup for a turntable.

One preamp and amplifier are plugged into the

upper left-hand pair of jacks, and the second preamp and amplifier into the right-hand pair. With the preamps switched to the stereo source you want to use, and the volume controls on the preamps once adjusted to balance the speakers, the system can be operated entirely from the Stereo-Dapter thereafter.

The selector switch has five positions: monaural, with both speakers playing from a single source; stereo, stereo channels reversed; channel A only; and channel B only. At the right is the master volume control which adjusts both channels simultaneously, with a volume-loudness switch above, and a record-playback switch at the left.

At the right in Fig. 1, the cover was removed to show the tandem volume controls, switch, and wiring. The volume control carries the power switch for the AC outlets at the rear. Therefore, the amplifiers can be turned on or off if they are plugged into the Stereo-Dapter, since it has its own line cord. If the other units are then plugged into the amplifiers, the whole system can be turned on and off from a single switch.

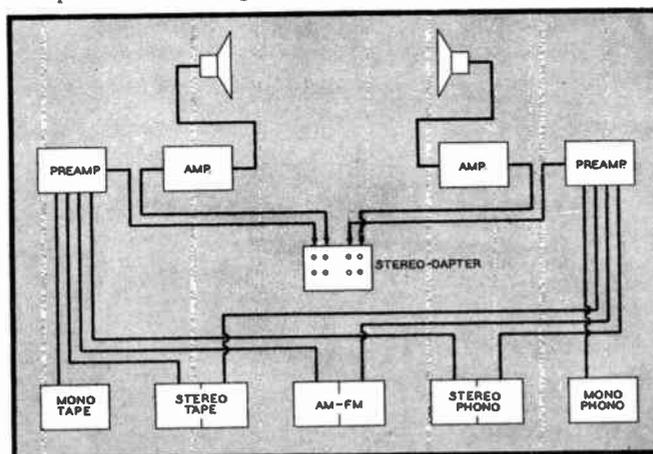
The markings on the terminals at the rear are those used on Scott preamps and amplifiers, but Fig. 2 shows

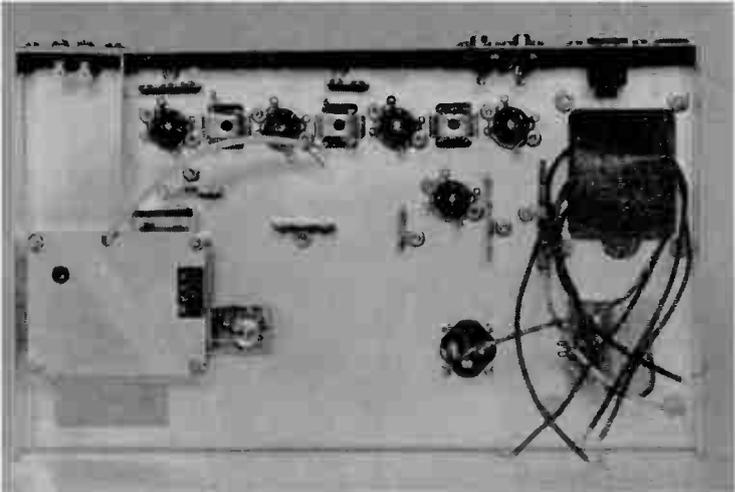
the connections for units of any manufacture.

Each left-hand jack of the lower pairs is for connection to the tape input, while the right-hand jack go to the monitor output. In this way, program material taped off the air can be monitored while it is being recorded.

Input and output impedances of this device are 300,000 ohms and 100,000 ohms respectively. The circuits are completely passive and introduce no distortion.

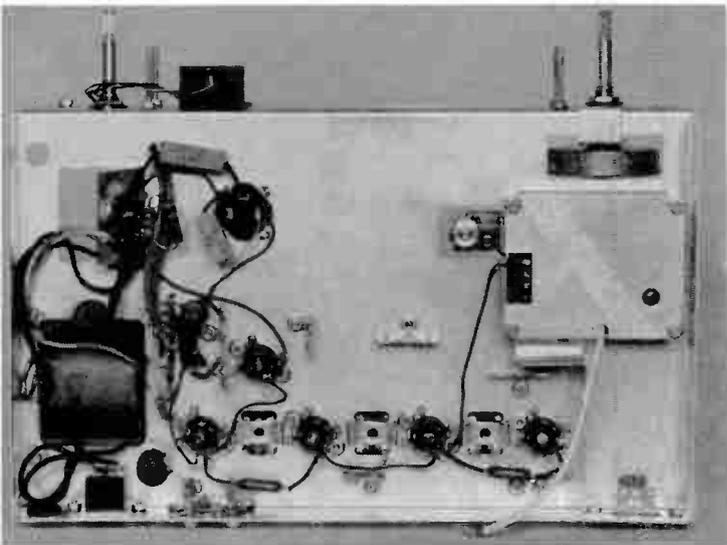
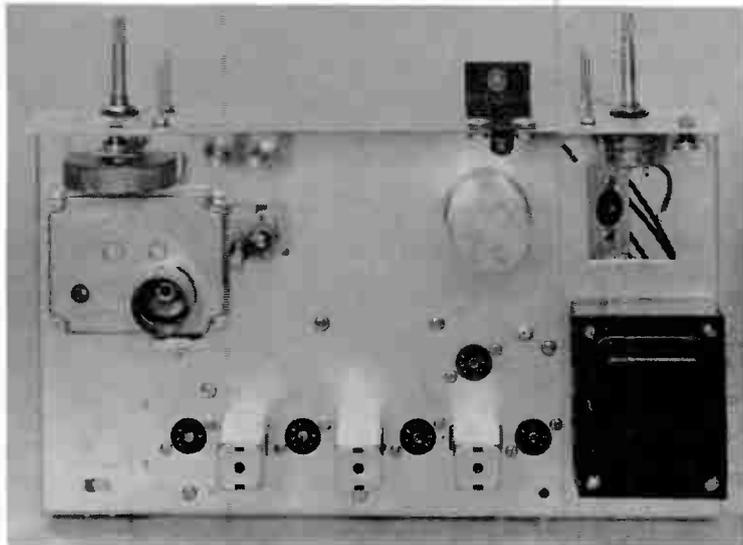
Fig. 2. When the selector switch is in the monaural position, the Stereo-Dapter connects the single source to both amplifier-speaker channels





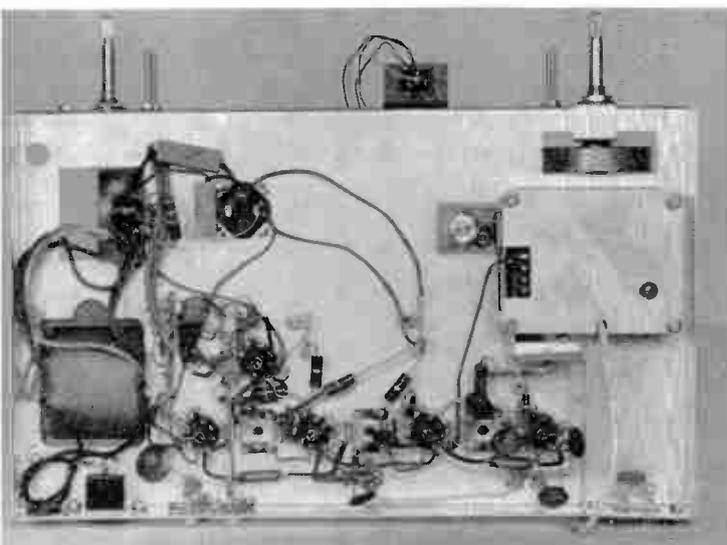
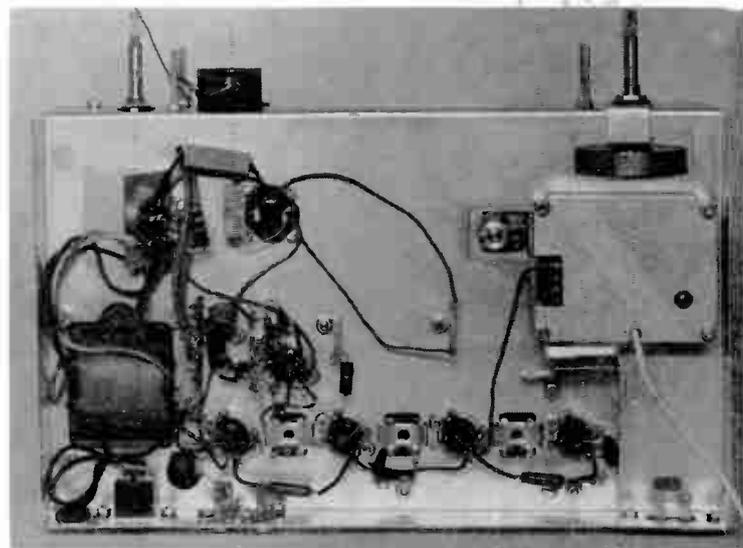
Stage 1, above: The FM tuning unit, lower left, and the power transformer are mounted at the start, together with such small parts as the tube sockets, IF transformers, and terminal strips

Stage 2, below: Another assembly stage is devoted to mounting the tuning flywheel, hardware items, volume control and on-off power switch, and the carriage for the tuning indicator



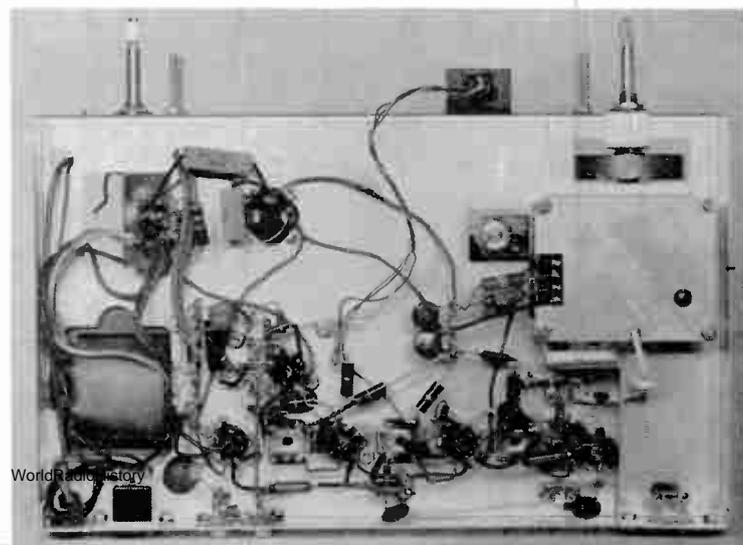
Stage 3, above: Wiring starts here, and the first capacitors, chokes, and resistors are added. Most of the 25 steps detailed in this stage have to do with connecting the transformer

Stage 4, below: Comparing this view with Stage 3, you can see how the wiring progresses in the next 28 steps. Some parts are added, but most of the wiring is for those already mounted



Stage 5, above: This view seems very much like Stage 4, but if you look closely, you can see that more resistors and capacitors are added — a total of 15 by actual count. There are 28 steps carried out in the course of this assembly stage

Stage 6, below: There are only 14 steps in this stage. They complete the wiring of the tuner. It is amazing to see how step-by-step instructions simplify an otherwise difficult job





*Notes on the Assembly of an EICO  
Model HFT90 FM Tuner  
—By Harold Taplin*

## HI-FI WORKSHOP PROJECT NO. 19

**T**HERE are some interesting innovations designed into the EICO FM tuner. The tuning circuits come as an assembled unit in a die-cast enclosure which serves as an RF shield. It is ready to mount, and requires no adjustments. You can see the bottom and the top of it in the pictures of Stages 1 and 2, with the cord drive added in the photograph of the finished chassis. Another feature is the "exclamation point" tuning indicator. Instead of using a pointer and an illuminated dial, the indicator is a tiny lamp that glows in the shape of an exclamation point.

The layout of the chassis is very clean, and the arrangement such as to make the terminals readily accessible for mounting the parts, and soldering the wires. Most important of all, of course, the performance is excellent.

As you would expect, more time is required to complete this tuner than one with the connections localized on a printed-circuit panel. On the other hand, there are differences of opinion about the use of printed circuits in FM tuners. This is probably a matter of personal preference, for there are advantages both ways.

Here is the writer's record of the time on each assembly stage, without deductions for minor interruptions. It should be noted that this kit was assembled and wired without assistance from someone to read off and check the individual steps.

- Stage 1: 50 minutes (14 steps)
- Stage 2: 40 minutes (11 steps)
- Stage 3: 80 minutes (25 steps)
- Stage 4: 90 minutes (28 steps)
- Stage 5: 80 minutes (28 steps)
- Stage 6: 35 minutes (14 steps)

Stage 7: 25 minutes (20 steps)

The total time of 6 hours and 40 minutes for 140 steps would have been reduced substantially with the help of someone to read the instructions, and to make a double-check on each operation.

The EICO instructions differ from those supplied with other kits in that the individual terminals and parts are identified by red arrows and lines which run out to code numbers in the margin of each diagram. In the succession of drawings, the parts and wires shown previously are included, but only those added in the new assembly stage are indicated by the red arrows and lines.

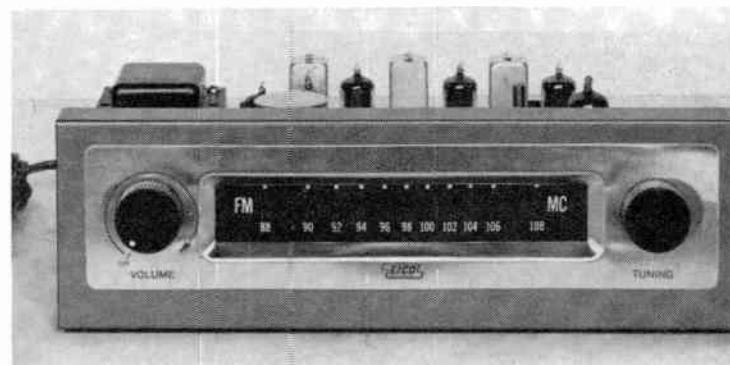
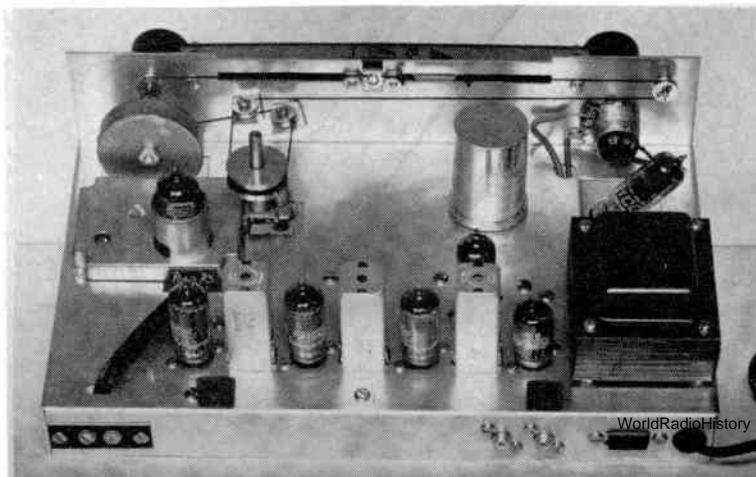
The two controls shown in the view of the front panel are for volume and the AC on-off switch, and tuning. No additional level-set is needed. The rated output is 1 volt with a 10-microvolt input signal at 75 kc. deviation. There are two outputs. One is a cathode follower, and the other a connection to the ratio detector.

Tubes are: ECC85/6AQ8 grounded-grid RF amplifier and reflex converter; two 6AU6 IF amplifiers; 6AU6 IF amplifier and limiter; 6AL5 dual diode detector; 6C4 cathode follower output; 6X4 full-wave rectifier; and DM70 tuning indicator. The pierced metal cover is 12 ins. wide,  $3\frac{5}{8}$  high, by  $8\frac{1}{4}$  deep.

For the benefit of those who want to check the alignment, there is a chart showing the visual procedure, and a list of voltages measured with the AC on, and resistances with the AC off.

This writer's experience indicates that the extra time, care, and patience required because the work must be done without benefit of a printed-circuit panel is offset by very satisfactory performance from the finished tuner.

*The complete FM tuner, ready for use. Finishing touches call for stringing the dial cord, putting on the indicator light, and mounting the panel*



# Hi-Fi Standards and Measurements

## Part 3: Measurement of Harmonic and Intermodulation Distortion, and their Significance — Rating Maximum Power Output — By Julian Hirsch and Gladden Houck

**A**MPLITUDE distortion, or non-linearity, was discussed briefly in Part 2. Now let us consider the audible results, namely, harmonic distortion and intermodulation (IM) distortion. They are measured quite differently, and are numerically different for a given amplifier. If only harmonic distortion were present, reproduction would not be affected appreciably, but it is accompanied by intermodulation distortion, resulting in fuzzy or discordant effects, particularly on loud passages.

### Discussion of Harmonic Distortion

Harmonic distortion is usually specified at a mid-range frequency such as 400 or 1,000 cycles. Most amplifiers deliver their best performance at these frequencies, so distortion figures taken at 400 or 1,000 cycles will usually be the lowest obtainable on any given amplifier. It is not surprising,

to find amplifiers which cannot deliver 10% of their mid-range power at 20 cycles, or which have several percent distortion at 20 cycles at any power level, no matter how small.

There is little or no musical content below 30 cycles and rarely any at that frequency. The purpose of a 20-cycle test is simply to tax the amplifier, no matter how good, beyond the limits of its normal performance in order to see how closely it approaches the ideal.

### Methods of Measuring Harmonic Distortion

Harmonic distortion can be measured in two ways, as indicated in Fig. 6. The basic, and most accurate method, is by means of a wave analyzer. This is a very sensitive and selective voltmeter with circuits which can be tuned to respond to any audio fre-

There is a much simpler and quicker way to measure harmonic distortion without an expensive wave analyzer. This involves the use of a null-type distortion meter. The amplifier output, containing the fundamental frequency and harmonics, is fed to the input of the distortion meter, which is adjusted to read 100%. A null circuit within the instrument, tuned to eliminate the 1,000-cycle fundamental (in our example), leaves only the harmonics to reach the metering circuit. The meter then reads directly the total RMS distortion, together with any hum or noise which may be present in the signal.

Due to the lower cost and simpler operation of the null-type distortion meter, it is much more widely used than the wave analyzer. The chief drawback of the null method is the fact that its readings include hum and noise. At low power levels, the hum content of an amplifier's output becomes comparable to, or greater than, the distortion. It is desirable to observe on an oscilloscope the output of a distortion analyzer at its metering circuit as the hum and harmonic distortion can be seen.

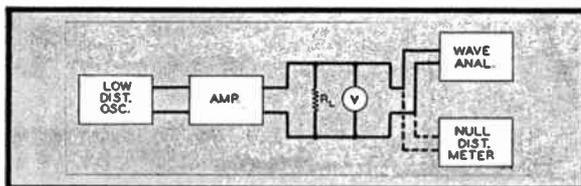


Fig. 6. Setup for measuring harmonic distortion in an amplifier, using a wave analyzer or a null-type distortion meter

therefore, to find these figures emphasized in manufacturers' catalogs and advertising.

All amplifiers (with the possible exception of those not using output transformers) distort more at very low frequencies than elsewhere. This is due to the inherent limitations of the iron core of the output transformer. In general, the more iron used in the core (and therefore the greater its size, weight and cost), the less it will suffer from low-frequency distortion. Of course, there are other design considerations affecting low-frequency transformer performance which we cannot go into at this time.

Practically all amplifiers, therefore, show more harmonic distortion at 20 or 30 cycles than at 400 or 1,000 cycles at any given power level. The specifications of high-quality amplifiers will usually indicate the low-frequency distortion as well as the mid-frequency distortion, and there will be little difference between the two figures. Where low-frequency distortion is not mentioned, it is reasonable to assume that it is appreciably higher than the mid-frequency value. We measure harmonic distortion at frequencies of 20 cycles and 1,000 cycles. When this data is plotted against power output, one can easily detect any limitations in low-frequency performance. It is not uncommon

quency. As an example of its use, assume that a 1,000 generator is connected to the input of an amplifier. The output will consist of a 1,000-cycle fundamental, with some 2nd, 3rd, 4th, and 5th harmonic content, audible as distortion. The wave analyzer is first tuned to 1,000 cycles and adjusted for a meter reading of 100%. It is then successively tuned to 2,000, 3,000, 4,000, and 5,000 cycles, and the presence of each harmonic is read directly on the meters as a percentage of the output at 1,000 cycles.

To plot the amplitude of each distortion component against power output, though informative, is cumbersome and time consuming. Therefore the various distortion components are usually combined into a single figure, termed "total RMS distortion". The magnitude of this distortion is equal to the square root of the sum of the squares of the individual harmonic amplitudes. If, in our hypothetical case, the harmonic amplitudes are 2% 2nd, 1% 3rd, 0.7% 4th, and 0.33% 5th, the total RMS distortion is

$$\sqrt{(2)^2 + (1)^2 + (0.7)^2 + (0.33)^2} = \sqrt{5.6} = 2.37\%$$

This is the value usually referred to in the specification of distortion.

### Methods of Measuring Intermodulation Distortion

In practice, IM measurements yield little information that cannot be gathered from ordinary harmonic distortion measurements. The technique of measurement is somewhat simpler, however, and hum in the output does not affect the IM readings, since it is filtered out in the analyzer.

Most IM measurements are made in accordance with the SMPTE method, Fig. 7. A low frequency, usually between 40 and 100 cycles, is mixed with a high-frequency signal of 2,000 to 12,000 cycles. The amplitude of the low-frequency signal is adjusted to 4 times that of the high-frequency signal. The combined signals are fed to the amplifier under test. The output of the amplifier is connected to an IM analyzer. In the IM analyzer, the low-frequency is filtered out. The high-frequency signal is demodulated and the percentage of modulation imposed on it by the low-frequency signal is read on a meter.

A detailed explanation of the modulation and demodulation process mentioned above is beyond the scope of this article. But briefly: when the two test signals, (for example 100 cycles and 5,000 cycles) are passed through a non-distorting amplifier, only the two original input signals will appear in the output. Filtering out the 100-cycle signal will leave only the

5,000-cycle signal, and the meter will indicate zero IM distortion. If any non-linearity exists in the amplifier (as it must in any practical case), the 5,000-cycle signal will be modulated by the low-frequency signal. The modulation process generates spurious frequencies at the sum and difference of the two frequencies involved. In this case, spurious signals would be present in the output at 5,100 cycles and at 4,900 cycles. The demodulator separates these frequencies from the 5,000-cycle signal, and indicates on a meter their amplitude relative to the 5,000-cycle level. This ratio is called  $\%$  IM distortion.

may encounter a certain amount of musical energy, yet suffer an appreciable loss of response at higher frequencies. Harmonics of the 10,000 to 15,000-cycle region will be attenuated, and appear to be less serious than they really are. The SMPTE measurement does not reveal any but the most drastic high-frequency imperfections. Since the CCIF method translates high-frequency non-linearity into a lower-frequency region where it can be easily measured, it is the most desirable method to use for this sort of measurement.

So far as we know, only one major American hi-fi manufacturer uses the CCIF

so-called "grid overload (GOL) point", at which the grids of the output tubes are driven positive. This changes the operating bias of the tubes so as to limit their power output. If the bias is adjusted to its steady-state value, the output stage can be driven to a higher output. Naturally, the user of an amplifier cannot change the bias in normal operation, so the GOL point effectively determines the maximum continuous power output.

In a home music system, an amplifier is almost never called upon to deliver a large, sustained output. The average level is always well below the point at which

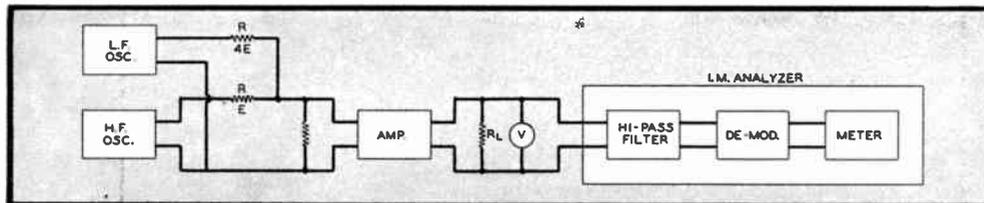


Fig. 7. The SMPTE method of measuring intermodulation distortion is the more frequently used. The IM figure is usually higher than that obtained with the CCIF procedure

The SMPTE IM distortion test primarily measures non-linearity at the lower test frequency, and readings are roughly dependent on the choice of frequency. Both test frequencies must be specified in order for an IM figure to have meaning. The most widely used low frequency in this test is 60 cycles, due to its availability from the power line.

A second method of IM distortion testing is the so-called CCIF method, Fig. 8. Unlike the SMPTE method, which is chiefly a measure of low-frequency performance, the CCIF method measures non-linearity at any frequency.

Two test signals are used, of equal amplitude and with a constant frequency separation (usually 1,000 cycles). The output of the amplifier contains the original test frequencies, as well as their sum and difference frequencies, as in the earlier example. The combined output is passed through a selective filter, which allows only the difference frequency to pass through to a meter which measures its amplitude. This amplitude, expressed as a percentage of the amplitude of one of the test frequencies, is the percentage of IM distortion.

It is clear that the CCIF method has an advantage over both the harmonic distortion and SMPTE IM distortion measurements in the measurement of high-frequency distortion. An amplifier may be non-linear at frequencies between 10,000 and 15,000 cycles, for example, where one

method in rating his amplifiers. These ratings can be recognized by the reference to "first order difference frequency IM", and by the fact that the numerical values obtained by this method are considerably lower than those resulting from an SMPTE measurement on the same amplifier. In fact, they may even be lower than harmonic distortion figures for the same power

the tube operating voltages are affected, and only an occasional peak, lasting a fraction of a second, may reach the maximum power capabilities of the amplifier. Such peaks are too brief to affect the tube voltages, so the amplifier may be able to deliver an appreciably greater power for a short time than it can continuously.

Some amplifiers are rated in terms of

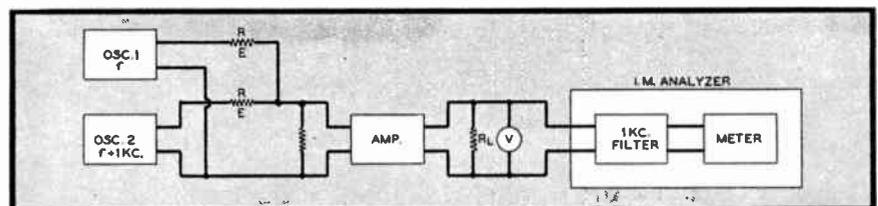


Fig. 8. The CCIF method of measuring intermodulation gives more informative results, but it is seldom employed. Outputs of the oscillators are equal, but they differ in frequency by 1,000 cycles

output, whereas ordinary SMPTE IM figures are almost always higher.

#### Maximum Power Output

There is sometimes a considerable difference (as much as 30%) in the maximum power output an amplifier delivers without serious distortion, depending on whether harmonic distortion or IM distortion is used as the criterion for establishing the maximum. The IM measurement shows a larger apparent output for a given percentage-of-distortion figure.

One limitation on the maximum steady-state power output of an amplifier is the

their musical power capacity, as well as their steady state power. Another common power rating is that of instantaneous peak power. When dealing with sine waves, that is mathematically twice the continuous or RMS power output. Thus we may find an amplifier rated at 40 watts on music waveforms, 35 watts continuous power output, and 80 watts instantaneous peak power output. All are legitimate ratings when so identified, and all describe the same amplifier. When comparing different amplifiers, one must be sure that the same system of power rating is being used.

Part 4 will appear in the July issue

## HI-FI HOUSE IN THE GRAND CENTRAL STATION

Watch next month for a detailed announcement about Hi-Fi House, sponsored by Hi-Fi Music Magazine, to be erected in Grand Central Station, New York.

Hi-Fi House will serve the public in three ways: It will provide display space for informative exhibits of hi-fi compo-

nents. Demonstrations of music from records, tape, and FM radio will give the public an opportunity to hear *genuine* hi-fi reproduction at home listening levels. And hi-fi experts will be on hand to give advice without prejudice, as nothing will be sold at Hi-Fi House.

The value and effectiveness of this project as a means of acquainting the public with truly hi-fi music can be judged by the fact that, in a year's time, more people pass through the area where Hi-Fi House will be located than the total population of the U. S. A. Music demonstrations will be given from 8:00 A.M. to 10:00 P.M.

# FM Broadcast Stations

Listing All FM Stations in the U.S. and Possessions Now on the Air, or for Which Construction Permits Have Been Granted, Arranged by Operating Frequencies

This list of FM broadcast stations was prepared from official FCC records, complete to January 1, 1958. If you find any errors or omissions, you are requested to report them to the Frequency and Notification Branch, Federal Communications Commission, New Post Office Building, Washington, D. C. We'll be grateful if you will tell us, at HI-FI MUSIC Magazine.

**88.1 MC.**  
 KLON Long Beach Cal.  
 WEPS Elgin Ill.  
 WGVF Gary Ind.  
 WNAS New Albany Ind.  
 KDPS Des Moines Iowa  
 KSDB-FM Manhattan Kans.  
 KTJO-FM Ottawa Kans.  
 WBJC Baltimore Md.  
 WAMF Amherst Mass.  
 WHPR Highland Park Mich.  
 WMMI Meridian Miss.  
 WSPE Springville N. Y.  
 WAER Syracuse N. Y.  
 WBGU Bowling Green Ohio  
 WKSU-FM Kent Ohio  
 KTEC Oretch Ore.  
 KNER Dallas Tex.  
 KHBL Plainview Tex.  
 KVSC Logan Utah  
 KVOK Honolulu T. H.

**88.3 MC.**  
 KSDS San Diego Cal.  
 WBGO Newark N. J.  
 WBWC Berea Ohio  
 WHWC Madison Wisc.

**88.5 MC.**  
 KFCA Phoenix Ariz.  
 WMHC Sa. Madley Mass.  
 WMUB Oxford Ohio  
 KVOF-FM El Paso Tex.

**88.7 MC.**  
 KXLU Los Angeles Cal.  
 KSTE Emporia Kans.  
 WBFO Buffalo N. Y.  
 WHA-FM Madison Wisc.

**88.9 MC.**  
 WTUN Tampa Fla.  
 WERS Boston Mass.  
 KOKH Oklahoma City Okla.  
 WXPB Philadelphia Pa.  
 KEPH Ephraim Utah

**89.1 MC.**  
 KWAR Waverly Iowa  
 KMUW Wichita Kans.  
 WAPS Akron Ohio  
 KANW Albuquerque N. M.  
 WRKF Richmond Va.

**89.3 MC.**  
 KPFB Berkeley Cal.  
 KPCC Pasadena Cal.  
 WRTC-FM Hartford Conn.  
 WNUR Evanston Ill.  
 WFPL Louisville Ky.  
 WOAK Royal Oak Mich.  
 WCUR-FM Kansas City Mo.  
 WHPS High Point N. C.  
 WHHS Havertown Pa.  
 KSMU-FM Dallas Tex.  
 WHKW Madison Wisc.

**89.5 MC.**  
 WAMF Amherst Mass.  
 WSOU Sa. Orange N. J.

**89.7 MC.**  
 WGBH-FM Cambridge Mass.  
 WOSU-FM Columbus Ohio

**89.9 MC.**  
 KCRW Santa Monica Cal.  
 WKCR-FM New York N. Y.

WGPS Greensboro N. C.  
 WUSV Scranton Pa.  
 WUSC-FM Columbia S. C.  
 WHSA Madison Wisc.

**90.1 MC.**  
 KSCU Santa Clara Cal.  
 WABE Atlanta Ga.  
 WIAN Indianapolis Ind.  
 WOI-FM Ames Iowa  
 WCFM Williamstown Mass.  
 WRTI-FM Philadelphia Pa.

**90.3 MC.**  
 WSHS Floral Park N. Y.  
 WBOE Cleveland Ohio  
 WHLA Madison Wisc.

**90.5 MC.**  
 KSHS Colorado Sprs. Colo.  
 WHUS Storrs Conn.  
 WKAR-FM East Lansing Mich.  
 WCBE Columbus Ohio  
 KWGS Tulsa Okla.  
 WFOS South Norfolk Va.  
 KUOW Seattle Wash.  
 KUOH Honolulu T. H.

**90.7 MC.**  
 KSPC Claremont Cal.  
 WPSR Evansville Ind.  
 WAMC Albany N. Y.  
 WFUV New York N. Y.  
 WHAD Madison Wisc.

**90.9 MC.**  
 WILL-FM Urbana Ill.  
 WBUR Boston Mass.  
 WFTR Detroit Mich.  
 WNAD-FM Norman Okla.  
 WHYY Philadelphia Pa.

**91.1 MC.**  
 WNIC DeKalb Ill.  
 WGCS Goshen Ind.  
 WYSN New Castle Ind.  
 WBOR Brunswick Me.  
 WMUA Amherst Mass.  
 WSLN Delaware Ohio  
 KWAX Eugene Ore.  
 WDFM Saint College Pa.  
 WKCS Knoxville Tenn.  
 KACC-FM Abilene Tex.  
 WLFM Appleton Wisc.

**91.3 MC.**  
 KCVN Stockton Cal.  
 KRCC Colorado Sprs. Colo.  
 WWKS Macomb Ill.  
 WSKS Wabash Ind.  
 WBKY Lexington Ky.  
 WWWS Greenville N. C.  
 WTDS Toledo Ohio  
 KUHF Houston Tex.  
 WTJU Charlottesville Va.  
 WHHI Madison Wisc.

**91.5 MC.**  
 KUSAC Los Angeles Cal.  
 WFSU-FM Tallahassee Fla.  
 WPRK Winter Park Fla.  
 WBEZ Chicago Ill.  
 WEVC Evansville Ind.  
 WWHI Muncie Ind.  
 KANU Lawrence Kans.  
 WMMI Meridian Miss.  
 KSLH St. Louis Mo.  
 WNYE Brooklyn N. Y.  
 WRP' Troy N. Y.  
 WUNC Chapel Hill N. C.  
 WOU Athens Ohio  
 WOBN Westerville Ohio  
 WYSO Yellow Springs Ohio  
 WDUQ Pittsburgh Pa.  
 WMTI Norfolk Va.

**91.7 MC.**  
 WUOA Tuscaloosa Ala.  
 KALW San Francisco Cal.  
 WTHS Miami Fla.  
 WGRE Greencastle Ind.  
 KSUI Iowa City Iowa  
 WEDK Springfield Mass.  
 WUOM Ann Arbor Mich.  
 WICB Ithaca N. Y.  
 KAMC-FM Stillwater Okla.  
 WPWT Philadelphia Pa.  
 KVTT Dallas Tex.  
 WEMC Harrisonburg Va.  
 KTOY Tacoma Wash.

**91.9 MC.**  
 KASU Jonesboro Ark.  
 KVCR San Bernardino Cal.  
 WSRV Carbondale Ill.  
 WKSD Kewanee Ill.  
 WHCI Hartford City Ind.  
 WYSH Huntington Ind.  
 WFPK Louisville Ky.  
 WGTS-FM Takoma Park Md.  
 WHSR-FM Winchester Mass.  
 WNTI Hackettstown N. J.  
 KRVM Eugene Ore.  
 WUOT Knoxville Tenn.  
 WHRM Madison Wisc.

**92.1 MC.**  
 KPSR Palm Springs Cal.  
 WEED-FM Rocky Mount N. C.  
 WARD-FM Johnstown Pa.  
 KREL-FM Baytown Tex.

**92.3 MC.**  
 KFAC-FM Los Angeles Cal.  
 KSJO-FM San Jose Cal.  
 WDBO-FM Orlando Fla.  
 WJOB-FM Hammond Ind.  
 WHOM-FM New York N. Y.  
 WFLY Troy N. Y.  
 WGWFR-FM Asheboro N. C.  
 WCOL-FM Columbus Ohio  
 KEX-FM Portland Ore.  
 WRRN Warren Pa.

WPRO-FM Providence R. I.  
 WJPB Fairmont W. Va.

**92.5 MC.**  
 WHOS-FM Decatur Ala.  
 WMBD-FM Peoria Ill.  
 WOMI-FM Owensboro Ky.  
 WBNC-FM Henderson N. C.  
 WMHE Toledo Ohio  
 WIFI Clevelside Pa.  
 WESC-FM Greenville S. C.  
 KRLD-FM Dallas Tex.  
 WRFL Winchester Va.

**92.7 MC.**  
 KACE-FM Riverside Cal.  
 WRAJ-FM Anna Ill.

**92.9 MC.**  
 WGKA-FM Atlanta Ga.  
 WVLN-FM Cliney Ill.  
 WBOS-FM Brookline Mass.  
 WBNY-FM Buffalo N. Y.  
 KDKA-FM Pittsburgh Pa.  
 WDSC-FM Dillon S. C.  
 KONO-FM San Antonio Tex.  
 KREM-FM Spokane Wash.

**93.1 MC.**  
 KNX-FM Hollywood Cal.  
 WKAT-FM Miami Beach Fla.  
 WHY-FM Springfield Mass.  
 WJBK-FM Detroit Mich.  
 WPAT-FM Paterson N. J.  
 WDDS-FM Syracuse N. Y.  
 WAIR-FM Winston-Salem N. C.

**93.3 MC.**  
 KYA-FM San Francisco Cal.  
 WFLA-FM Tampa Fla.  
 WRBL-FM Columbus Ga.  
 WKYC Paducah Ky.  
 KCMK Kansas City Mo.  
 WJTN-FM Jamestown N. Y.  
 WBBO-FM Forest City N. C.  
 WIP-FM Philadelphia Pa.  
 WBIR-FM Knoxville Tenn.  
 WQFM Milwaukee Wisc.

**93.5 MC.**  
 KEDO Ontario Cal.  
 WNRC-FM New Rochelle N. Y.

**93.7 MC.**  
 WFSM Birmingham Ala.  
 KRFM Fresno Cal.  
 WHCN Hartford Conn.  
 WDEL-FM Wilmington Del.  
 WCMJ-FM Ashland Ky.  
 WJEF-FM Grand Rapids Mich.  
 KCFM St. Louis Mo.  
 WMVO-FM Mt. Vernon Ohio  
 WKJF Pittsburg Pa.  
 WFBC-FM Greenville S. C.  
 KSEL-FM Lubbock Tex.

**93.9 MC.**  
 KPOL-FM Los Angeles Cal.  
 WAHR-FM Miami Beach Fla.  
 WEBH-FM Chicago Ill.  
 WFMW-FM Madisonville Ky.  
 WCOU-FM Lewiston Me.  
 KWPM-FM West Plains Mo.  
 WNYC-FM New York N. Y.  
 WFNS-FM Burlington N. C.  
 KSPI-FM Stillwater Okla.  
 KBFM Salt Lake City Utah  
 WRC-FM Washington D. C.

KERN-FM	94.1 MC.	Bakersfield	Cal.	WFLN-F	Philadelphia	Pa.	KTNT-FM	Tacoma	Wash.	WDLP-FM	Panama City	Fla.
KPFA		Berkeley	Cal.				WKWK-FM	Wheeling	W.Va.	WHBF-FM	Rock Island	Ill.
KFSD-FM		San Diego	Cal.	WCHA-FM	Chambersburg	Pa.				KBOA-FM	Kennett	Mo.
WMIX-FM		Mt. Vernon	Ill.				97.5 MC.			WSNJ-FM	Bridgeton	N. J.
WHBC-FM		Canton	Ohio	KLCN-FM	Blytheville	Ark.	KQXM	Riverside	Cal.	WHFM	Rochester	N. Y.
WIBG-FM		Philadelphia	Pa.	KCRA-FM	Sacramento	Cal.	KRCW	Santa Barbara	Cal.	WKBN-FM	Youngstown	Ohio
WKOK-FM		Sunbury	Pa.	WMBR-FM	Jacksonville	Fla.	WDWS-FM	Champaign	Ill.	KYFM	Oklahoma City	Okla.
WOAY-FM		Oak Hill	W.Va.	KROS-FM	Clinton	Iowa	WROK-FM	Rockford	Ill.	WSPA-FM	Spartanburg	S. C.
WEAU-FM		Eau Claire	Wisc.	KFMX	Council Bluffs	Iowa	KWNO-FM	Winona	Minn.			
				WVJS-FM	Owensboro	Ky.	WTOA	Trenton	N. J.	99.1 MC.		
WBEC-FM	94.3 MC.	Pittsfield	Mass.	WTAG-FM	Worcester	Mass.	WALK-FM	Patchogue	N. Y.	KPII	Riverside	Cal.
WOCB-FM		W. Yarmouth	Mass.	WMBH-FM	Joplin	Mo.	WAKR-FM	Akron	Ohio	WNHC-FM	New Haven	Conn.
WJLK-FM		Asbury Park	N. J.	WMBO-FM	Auburn	N. Y.	KRIC-FM	Beaumont	Tex.	WMAZ-FM	Macon	Ga.
WBUX-FM		Lexington	N. C.	WKIX-FM	Raleigh	N. C.	WKAZ-FM	Charleston	W.Va.	WNAV-FM	Annapolis	Md.
KCLE-FM		Cleburne	Tex.	WOHS-FM	Shelby	N. C.	WORA-FM	Mayaguez	P. R.	KFUO-FM	Clayton	Mo.
WEPM-FM		Martinsburg	W.Va.							WAWZ-FM	Zarephath	N. J.
				96.3 MC.			97.7 MC.			WHIO-FM	Dayton	Ohio
WNDB-FM	94.5 MC.	Daytona Beach	Fla.	KRED	Eureka	Cal.	KPOC-FM	Pocahontas	Ark.	WSLS-FM	Roanoke	Va.
WLAP-FM		Lexington	Ky.	KRDK-FM	Los Angeles	Cal.	WFST-FM	Caribou	Me.			
KWKH-FM		Shreveport	La.	WGBS-FM	Miami	Fla.	WBET-FM	Brookton	Mass.	99.3 MC.		
WHDH-FM		Boston	Mass.	WBBM-FM	Chicago	Ill.	WBUT-FM	Butler	Pa.	KFGQ-FM	Boone	Iowa
KWOC-FM		Poplar Bluff	Mo.	WJR-FM	Detroit	Mich.				WFRO-FM	Fremont	Ohio
WSYR-FM		Syracuse	N. Y.	KHFM	Albuquerque	N. M.	KMJ-FM	Fresno	Cal.	WAJR-FM	Morgantown	W.Va.
WFSC-FM		Franklin	N. C.	WQXR-FM	New York	N. Y.	KNOB	Long Beach	Cal.			
WLOE-FM		Leaksville	N. C.	WBAP-FM	Ft. Worth	Tex.	WQXT-FM	Palm Beach	Fla.	99.5 MC.		
WWSW-FM		Pittsburgh	Pa.	WMVA-FM	Martinsville	Va.	WEHS	Chicago	Ill.	WAFM	Birmingham	Ala.
WRVA-FM		Richmond	Va.	WJMC-FM	Rice Lake	Wisc.	WFDS-FM	Baltimore	Md.	KTKT-FM	Tucson	Ariz.
				WTOP-FM	Washington	D. C.	WJLB-FM	Detroit	Mich.	KHOF	Los Angeles	Cal.
KRHM	94.7 MC.	Hollywood	Cal.				KMFM	Mountain Park	N. M.	KDEN-FM	Denver	Colo.
WDOV-FM		Dover	Del.	KFMX	San Diego	Cal.	WEVD-FM	New York	N. Y.	WJBR	Wilmington	Dela.
WENR-FM		Chicago	Ill.	KRON-FM	San Francisco	Cal.	WAZL-FM	Hazleton	Pa.	WEFM	Chicago	Ill.
WNGO-FM		Mayfield	Ky.	WTIC-FM	Hartford	Conn.	WCOS-FM	Columbia	S. C.	WTAD-FM	Quincy	Ill.
WMAS-FM		Springfield	Mass.	WHOO-FM	Orlando	Fla.	WFAA-FM	Dallas	Tex.	WSON-FM	Henderson	Ky.
WHFI		Detroit	Mich.	WEWO-FM	Laurinburg	N. C.	KFMK	Houston	Tex.	WGAY-FM	Silver Spring	Md.
KTTS-FM		Springfield	Mo.	WHAT-FM	Philadelphia	Pa.				WLLH-FM	Lowell	Mass.
WAAT-FM		Newark	N. J.	WDOD-FM	Chattanooga	Tenn.	WCTA-FM	Andalusia	Ala.	WLLOL-FM	Minneapolis	Minn.
WPFF-FM		Raleigh	N. C.	WFMR	Glendale	Wisc.	KAFE	Oakland	Cal.	WBAI	New York	N. Y.
WVKO-FM		Columbus	Ohio				KCBM	Kansas City	Kans.	WGFM	Schenectady	N. Y.
				96.7 MC.			WBRL	Baton Rouge	La.	WAMFR-FM	High Point	N. C.
KSFR	94.9 MC.	San Francisco	Cal.	KWIZ-FM	Santa Ana	Cal.	WNBH-FM	New Bedford	Mass.	KISS	San Antonio	Tex.
WSJG		Miami	Fla.	WSTC-FM	Stamford	Conn.	WSAM-FM	Saginaw	Mich.	WBKW	Beckley	W. Va.
KCMO-FM		Kansas City	Mo.	WCOH-FM	Newman	Ga.	WNBH-FM	Binghamton	N. Y.			
WMTW-FM		Mt. Washington	N. H.	WORX-FM	Madison	Ind.	WFNC-FM	Fayetteville	N. C.	KWPC-FM	Muscatine	Iowa
WPHB-FM		Philipsburg	Pa.	WFOB-FM	Fostoria	Ohio	WCAU-FM	Philadelphia	Pa.	WFMP	Pittsburgh	Pa.
WGRV-FM		Greeneville	Tenn.	WQMS	Hamilton	Ohio	WSNW-FM	Seneca	S. C.	WMCF	Memphis	Tenn.
WDBJ-FM		Roanoke	Va.				KCMC-FM	Texarkana	Tex.			
WWCF		Greenfield	Wisc.	KFBK-FM	Sacramento	Cal.	WCOD	Richmond	Va.	99.9 MC.		
				WZOK-FM	Jacksonville	Fla.	KING-FM	Seattle	Wash.	WKRG-FM	Mobile	Ala.
WGHF	95.1 MC.	Brookfield	Conn.	WNEX-FM	Macon	Ga.	WISC-FM	Madison	Wisc.	WMYC-FM	Marysville	Cal.
WJAX-FM		Jacksonville	Fla.	WLBH-FM	Mattoon	Ill.				KPAX	San Bernardino	Cal.
WFBE		Flint	Mich.	WPAD-FM	Paducah	Ky.	KDWC	West Covina	Cal.	WINZ-FM	Miami	Fla.
WRRE		Sa. Bristol Center	N. Y.	KALB-FM	Alexandria	La.	WLAD-FM	Danbury	Conn.	WEBQ-FM	Harrisburg	Ill.
WGPA-FM		Bethlehem	Pa.	WXHR	Boston	Mass.	WPRS-FM	Paris	Ill.	WTHI-FM	Terre Haute	Ind.
WTMA-FM		Charleston	S. C.	WLAV-FM	Grand Rapids	Mich.	WHAI-FM	Greenfield	Mass.	WHFB-FM	Benton Harbor	Mich.
				WEQR	Goldsboro	N. C.	WTVB-FM	Coldwater	Mich.	WKRT-FM	St. Joseph	N. Y.
				KGPO	Grans Pass	Ore.	WCTC-FM	New Brunswick	N. J.	WTOD-FM	Toledo	Ohio
				WLAN-FM	Lancaster	Pa.	WHLI-FM	Hempstead	N. Y.	WEEX-FM	Easton	Pa.
				WCSC-FM	Charleston	S. C.	WTNC-FM	Thomasville	N. C.	WERC-FM	Erie	Pa.
				WOPI-FM	Bristol	Tenn.	WEEF-FM	Easton	Pa.	KISW	Seattle	Wash.
				KRBC-FM	Abilene	Tex.	WRHI-FM	Rock Hill	S. C.	WCLO-FM	Janesville	Wisc.
							KHFI	Austin	Tex.			
				96.9 MC.						100.1 MC.		
				WHTB-FM	Tallahadega	Ala.	98.3 MC.			WKBR-FM	Manchester	N. H.
				KFMU	Los Angeles	Cal.	West Covina	Cal.		WYAM-FM	Altoona	Pa.
				WNIB	Chicago	Ill.	Danbury	Conn.		WLBR-FM	Lebanon	Pa.
				WRCM	New Orleans	La.	Paris	Ill.		KELS	Nacogdoches	Tex.
				WWJ-FM	Detroit	Mich.	Greenfield	Mass.		WVOD-FM	Lynchburg	Va.
				KWFM	Minneapolis	Minn.	Coldwater	Mich.		WIUS	St. Croix	Va.
				WRCA-FM	New York	N. Y.	New Brunswick	N. J.				
				WBNS-FM	Columbus	Ohio	Hempstead	N. Y.				
				KPFM	Portland	Ore.	Thomasville	N. C.				
				WEEL	Erie	Pa.	Easton	Pa.				
				KLUB-FM	Salt Lake City	Utah	Rock Hill	S. C.				
				WASH	Washington	D. C.	Austin	Tex.				
				97.1 MC.			98.5 MC.					
				KEAR	San Francisco	Cal.	San Jose	Cal.				
				KRNW	Boulder	Colo.	Denver	Colo.				
				WCKR-FM	Miami	Fla.	Atlanta	Ga.				
				WTOC-FM	Savannah	Ga.	Boston	Mass.				
				WROY-FM	Carmi	Ill.	Minneapolis	Minn.				
				WBSM-FM	New Bedford	Mass.	Jefferson City	Mo.				
				WHCU-FM	Ithaca	N. Y.	Los Alamos	N. M.				
				WHP-FM	Harrisburg	Pa.	Niagara Falls	N. Y.				
				KITE-FM	San Antonio	Tex.	Cleveland	Ohio				
				WGH-FM	Newport News	Va.	Wilkes Barre	Pa.				
							WKPPT-FM	Kingsport	Tenn.			
				97.3 MC.			98.7 MC.					
				KEAR	San Francisco	Cal.	Los Angeles	Cal.				
				KRNW	Boulder	Colo.	Chicago	Ill.				
				WCKR-FM	Miami	Fla.	Hopkinsville	Ky.				
				WTOC-FM	Savannah	Ga.	New York	N. Y.				
				WROY-FM	Carmi	Ill.	Greensboro	N. C.				
				WBSM-FM	New Bedford	Mass.	Portland	Ore.				
				WHCU-FM	Ithaca	N. Y.	Salt Lake City	Utah				
				WHP-FM	Harrisburg	Pa.	Wheeling	W.Va.				
				KITE-FM	San Antonio	Tex.	Washington	D. C.				
				WGH-FM	Newport News	Va.						
							98.9 MC.					
							San Francisco	Cal.				

WHMA-FM KCMS-FM WLDS-FM WTRX-FM WFIN-FM WDXY WHTN-FM	<b>100.5 MC.</b> Anniston Sacramento Jacksonville Bellaire Findlay Spartanburg Huntington	Ala. Cal. Ill. Ohio Ohio S. C. W. Va.	WPPA-FM KDFC WSOY-FM WOCR WREV-FM WDOK-FM WIMA-FM WCED-FM WFIL-FM WRNL-FM	Pottsville Sausalito Decatur Kalamazoo Reidsville Cleveland Lima Du Bois Philadelphia Richmond	Pa. Cal. Ill. Mich. S. C. Ohio Pa. Pa. Va.	<b>102.1 MC.</b> KAMS KTYM-FM WDUN-FM WPRB WFAS-FM WBLY-FM KTWR	Mammoth Sprs. Inglewood Gainesville Princeton White Plains Springfield Tacoma	Ark. Cal. Ga. N. J. N. Y. Ohio Wash.	WHAT-FM KSFM	Philadelphia Dallas	Pa. Tex.
WDAE-FM WTRC-FM WCOP-FM WLNA-FM WFMA WHL-FM WFMZ WTJS-FM WJHL-FM WSVA-FM KIRO-FM WLIN WRNJ-FM	<b>100.7 MC.</b> Tampa Elkhart Boston Peekskill Rocky Mount Cleveland Allentown Jackson Johnson City Harrisonburg Seattle Merrill Racine	Fla. Ind. Mass. N. Y. N. C. Ohio Pa. Tenn. Tenn. Va. Va. Wisc. Wisc.	KOFX-FM WBAB-FM KSMA-FM WGAU-FM WCTW WCRB-FM WHKP-FM WRVC	Long-Beach Babylon Santa Maria Athens New Castle Waltham Hendersonville Norfolk	Cal. N. Y. Cal. Ga. Ind. Mass. N. C. Va.	<b>102.3 MC.</b> KTRB-FM WRUF-FM WLAG-FM WIKY-FM WMUN KMLB-FM WBCN WJOL-FM WSJS-FM WPAY-FM WLAB WTJS-FM WMFM	Modesto Gainesville LaGrange Evansville Muncie Monroe Boston Buffalo Salem Portsmouth Lebanon Jackson Madison	Cal. Fla. Ga. Ind. Ind. La. Mass. N. Y. N. C. Ohio Pa. Tenn. Wisc.	KUOA-FM WAUG-FM WRUN-FM WSIC-FM KYW-FM WNOW-FM	Siloam Springs Augusta Utica Statesville Cleveland York	Ark. Ga. N. Y. N. C. Ohio Pa.
WKLF-FM WABZ-FM WIFM-FM	<b>100.9 MC.</b> Clanton Albermarle Elkin	Ala. N. C. N. C.	KCMS-FM WOPA-FM WCAO-FM WNEW-FM WSAI-FM WORG-FM	Manitou Springs Oak Park Baltimore Newark Cincinnati Orangeburg	Colo. Ill. Md. N. J. Ohio S. C.	<b>102.7 MC.</b> KPLA WSEL WAIL-FM WITL-FM WOMC WNCN WLOS-FM WCPS-FM WJPA-FM	Los Angeles Chicago Baton Rouge Baltimore Royal Oak New York Asheville Tarboro Washington	Cal. Ill. La. Md. Mich. N. Y. N. C. N. C. Pa.	WRFS-FM WLET-FM WTSV-FM WCLI-FM WPAC-FM WQAL	Alexander City Toccoa Claremont Corning Pachogue Philadelphia	Ala. Ga. N. H. N. Y. N. Y. Pa.
WFMH-FM KHJ-FM WMAQ-FM KGLO-FM WLBJ-FM KRMD-FM WXYZ-FM WCBS-FM WBBB-FM KOIN-FM WCAC WRR-FM KTRH-FM WWDG-FM	<b>101.1 MC.</b> Cullman Los Angeles Chicago Mason City Bowling Green Shreveport Detroit New York Burlington Portland Anderson Dallas Houston Washington	Ala. Cal. Ill. Iowa Ky. La. Mich. N. Y. N. C. Ore. S. C. Tex. Tex. D. C.	WRLD-FM KRE-FM WCUM-FM WJDX-FM WPEN-FM WPIC-FM KPRC-FM	Lanett Berkeley Cumberland Jackson Philadelphia Sharon Houston	Ala. Cal. Md. Miss. Pa. Pa. Tex.	<b>102.9 MC.</b> KBAY-FM WAJC WWST-FM KIXL-FM	San Francisco Indianapolis Dooster Dallas	Cal. Ind. Ohio Tex.	WJLN KTYL-FM KOXR-FM KDFR WPKM WITZ-FM WJEJ-FM KFAM-FM WKIP-FM WTOL-FM WSVS-FM WPRP-FM	Birmingham Mesa Oxnard San Diego Tampa Jasper Hagerstown St. Cloud Toledo Clewe Ponce	Ala. Ariz. Cal. Cal. Fla. Ind. Md. Minn. N. Y. Ohio Va. P. R.
KPEN WATG-FM WGAL-FM WGBI-FM	<b>101.3 MC.</b> Atherton Ashland Lancaster Scranton	Cal. Ohio Pa. Pa.	WORLD-FM KRE-FM WCUM-FM WJDX-FM WPEN-FM WPIC-FM KPRC-FM	Long Beach Sturgis Sanford	Cal. Mich. N. C.	<b>103.1 MC.</b> KNOB WSTR-FM WSNS	Long Beach Sturgis Sanford	Cal. Mich. N. C.	WFUL-FM WFOV	Fulton Madison	Ky. Wisc.
KQXR KGB-FM WWPB WJBC-FM KAYL-FM WRAL-FM WSPD-FM WXCN	<b>101.5 MC.</b> Bakersfield San Diego Miami Bloomington Storm Lake Raleigh Toledo Providence	Cal. Cal. Fla. Ill. Iowa N. C. Ohio R. I.	KBEE-FM WAGA-FM WEEI-FM WDBQ-FM WILY WYZZ WLOG-FM WFHR-FM	Modesto Atlanta Boston Dubuque Kenmore Wilkes Barre Logan Wisconsin Rapids	Cal. Ga. Mass. Iowa N. Y. Pa. W. Va. Wisc.	<b>103.3 MC.</b> KGLA WKFM WMUZ KYSM-FM WGLI-FM WSOC-FM WMOH-FM WSTV-FM WGMS-FM	Los Angeles Chicago Detroit Mankato Babylon Charlotte Hamilton Staubenville Washington	Cal. Ill. Mich. Minn. N. Y. N. C. Ohio Ohio D. C.	WJLN KTYL-FM KOXR-FM KDFR WPKM WITZ-FM WJEJ-FM KFAM-FM WKIP-FM WTOL-FM WSVS-FM WPRP-FM	Birmingham Mesa Oxnard San Diego Tampa Jasper Hagerstown St. Cloud Toledo Clewe Ponce	Ala. Ariz. Cal. Cal. Fla. Ind. Md. Minn. N. Y. Ohio Va. P. R.
WVBR-FM WFAH-FM	<b>101.7 MC</b> Ithaca Alliance	N. Y. Ohio	KGO-FM WBBQ-FM WTAX-FM WFIU WOC-FM WMOU-FM WRRR WICA-FM	San Francisco Augusta Springfield Bloomington Davenport Berlin Ithaca Ashtabula	Cal. Ga. Ill. Ind. Iowa N. H. N. Y. Ohio	<b>103.5 MC.</b> WAVU-FM KDBX KTGM WEAW-FM WGEM-FM WDNC-FM WCPO-FM WLYC-FM WPJB-FM WARL-FM	Albertville Los Angeles Denver Evanston Quincy Durham Cincinnati Williamsport Providence Arlington	Ala. Cal. Cal. Colo. Ill. Ill. N. C. Ohio Pa. R. I. Va.	WVBR-FM WFAH-FM	Ithaca Alliance	N. Y. Ohio
KBTM-FM KARM-FM KUTE WCLM WNES-FM WTOW-FM WSFL-FM WDET-FM WRRR WBFM WGNC-FM WKRC-FM	<b>101.9 MC</b> Jonesboro Fresno Glendale Chicago Central City Towson Springfield Detroit Cherry Valley New York Gastonia Cincinnati	Ark. Cal. Cal. Ill. Ky. Md. Mass. Mich. N. Y. N. Y. N. C. Ohio	WVBR-FM WFAH-FM	Ithaca Alliance	N. Y. Ohio	<b>103.7 MC.</b> KDBX KTGM WEAW-FM WGEM-FM WDNC-FM WCPO-FM WLYC-FM WPJB-FM WARL-FM	San Francisco Augusta Springfield Bloomington Davenport Berlin Ithaca Ashtabula	Cal. Ga. Ill. Ind. Iowa N. H. N. Y. Ohio	<b>103.9 MC.</b> KTRB-FM WRUF-FM WLAG-FM WIKY-FM WMUN KMLB-FM WBCN WJOL-FM WSJS-FM WPAY-FM WLAB WTJS-FM WMFM	Modesto Gainesville LaGrange Evansville Muncie Monroe Boston Buffalo Salem Portsmouth Lebanon Jackson Madison	Cal. Fla. Ga. Ind. Ind. La. Mass. N. Y. N. C. Ohio Pa. Tenn. Wisc.
						<b>104.1 MC.</b> KTRB-FM WRUF-FM WLAG-FM WIKY-FM WMUN KMLB-FM WBCN WJOL-FM WSJS-FM WPAY-FM WLAB WTJS-FM WMFM	Modesto Gainesville LaGrange Evansville Muncie Monroe Boston Buffalo Salem Portsmouth Lebanon Jackson Madison	Cal. Fla. Ga. Ind. Ind. La. Mass. N. Y. N. C. Ohio Pa. Tenn. Wisc.			
						<b>104.3 MC.</b> KPLA WSEL WAIL-FM WITL-FM WOMC WNCN WLOS-FM WCPS-FM WJPA-FM	Los Angeles Chicago Baton Rouge Baltimore Royal Oak New York Asheville Tarboro Washington	Cal. Ill. La. Md. Mich. N. Y. N. C. N. C. Pa.			
						<b>104.5 MC</b> KBAY-FM WAJC WWST-FM KIXL-FM	San Francisco Indianapolis Dooster Dallas	Cal. Ind. Ohio Tex.			
						<b>104.7 MC.</b> WJLN KTYL-FM KOXR-FM KDFR WPKM WITZ-FM WJEJ-FM KFAM-FM WKIP-FM WTOL-FM WSVS-FM WPRP-FM	Birmingham Mesa Oxnard San Diego Tampa Jasper Hagerstown St. Cloud Toledo Clewe Ponce	Ala. Ariz. Cal. Cal. Fla. Ind. Md. Minn. N. Y. Ohio Va. P. R.			
						<b>104.9 MC</b> WFUL-FM WFOV	Fulton Madison	Ky. Wisc.			
						<b>105.1 MC.</b> WAVU-FM KDBX KTGM WEAW-FM WGEM-FM WDNC-FM WCPO-FM WLYC-FM WPJB-FM WARL-FM	Albertville Los Angeles Denver Evanston Quincy Durham Cincinnati Williamsport Providence Arlington	Ala. Cal. Cal. Colo. Ill. Ill. N. C. Ohio Pa. R. I. Va.			
						<b>105.3 MC.</b> KDFR KBCO WDSU-FM WWHG-FM WMSA-FM WDAS-FM	San Diego San Francisco New Orleans Hornell Massena Philadelphia	Cal. Cal. La. N. Y. N. Y. Pa.			
									<b>105.5 MC.</b> KBCA WBRI WWGP-FM	Beverly Hills Fair Lawn Sanford	Cal. N. J. N. C.
									<b>105.7</b> KUOA-FM WAUG-FM WRUN-FM WSIC-FM KYW-FM WNOW-FM	Siloam Springs Augusta Utica Statesville Cleveland York	Ark. Ga. N. Y. N. C. Ohio Pa.
									<b>105.9 MC</b> KBMS WHCN WPFB-FM WFMB	Glendale Hartford Middletown Nashville	Cal. Conn. Ohio Tenn.
									<b>106.1 MC</b> WRFS-FM WLET-FM WTSV-FM WCLI-FM WPAC-FM WQAL	Alexander City Toccoa Claremont Corning Pachogue Philadelphia	Ala. Ga. N. H. N. Y. N. Y. Pa.
									<b>106.3 MC.</b> WEXI WBBS WUST-FM WOTW-FM WWON-FM KDNT-FM	St. Charles Crawfordsville Bethesda Nashua Woonsocket Denton	Ill. Ind. Md. N. H. R. I. Tex.
									<b>106.5 MC</b> WFML WBEN-FM WFTP-FM WHLM-FM WAAM-FM	Washington Buffalo Salisbury Bloomsburg Parkersburg	Ind. N. Y. N. C. Pa. W. Va.
									<b>106.7 MC.</b> WBZ-FM	Boston	Mass.
									<b>106.9 MC.</b> WBRC-FM KPUP WMRI-FM WTBO-FM WARK-FM WMIT WMRN-FM	Birmingham San Francisco Marion Cumberland Hagerstown Clingmans Peak Marion	Ala. Cal. Ind. Md. Md. N. C. Ohio
									<b>107.1 MC.</b> KSJW WXFM WHRB-FM WFUM	Alhambra Elmwood Park Cambridge Flint	Cal. Ill. Mass. Mich.
									<b>107.3 MC.</b> WRSW-FM WEOL-FM WMAL-FM	Warsaw Elyria Washington	Ind. Ohio D. C.
									<b>107.5 MC.</b> KBBI	Los Angeles	Cal.
									<b>107.7 MC.</b> WDEM-FM	Providence	R. I.
									<b>107.9 MC.</b> KXOA-FM WEST-FM KDFW	Sacramento Easton Cedar Hill	Cal. Pa. Tex.

## STEREO BATTLE ENDS QUICKLY

At press time, Goddard Lieberman, president of Columbia Records, announced that his company will produce 45/45 discs: "It is our intention to produce for commercial sale in the near future a so-called non-compatible, stereophonic disc

which will contain every element necessary for full stereophonic effect. This stereophonic disc will not in any way affect our monaural catalog which is, and will continue to be, the world's largest LP catalog.

"Our point of view has always been that the introduction of the stereophonic

disc is merely a refinement, not a revolution, in the realm of "Lp" recording. Various methods for reproducing stereophonically have been developed, and others are still in the laboratory stage. The Columbia full stereophonic disc will conform to the technical standards adopted by both the record and phonograph industries."



*You Can't Judge a Book By Its Cover, nor Hi-Fi Equipment By Its Outward Appearance. Here Are Photographs Showing the Inside Construction of New Components Which Have Been Granted the Commendation Seal*

## “INSIDE

## INFORMATION”

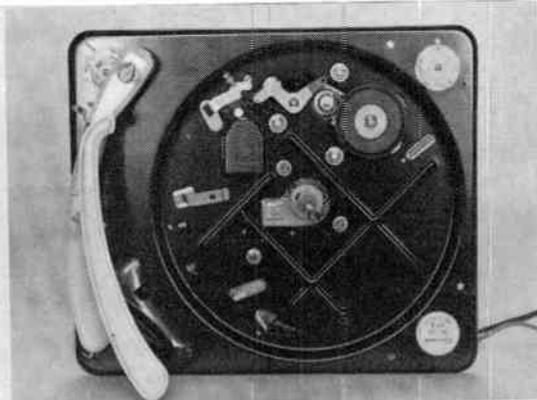
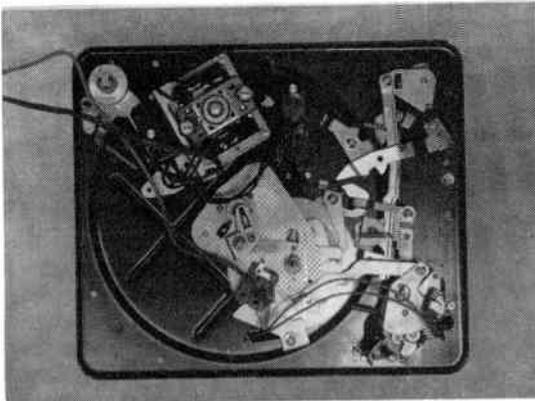


The Hi-Fi Music Commendation Seal, which bears the inscription "A Commended Design in Its Price Class", has been awarded to the specific models described and illustrated in this department.

In making these awards, five factors are considered. They are: mechanical design, electrical design, workmanship, performance, and facilities provided. These factors are then related to the retail price.

Thus, designation as "A Commended Design in Its Price Class" represents a composite of the various points which must be taken into account in the selection of hi-fi equipment.

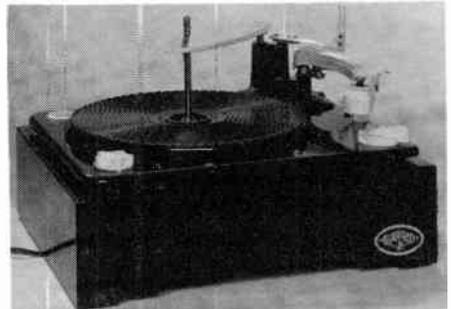
It should be clearly understood that the Commendation Seal is not a confirmation of the manufacturer's specifications. However, when we have received such confirmation from an independent engineering laboratory, this is so stated in the discussion of the equipment, and the name of the laboratory is given for purposes of identification.



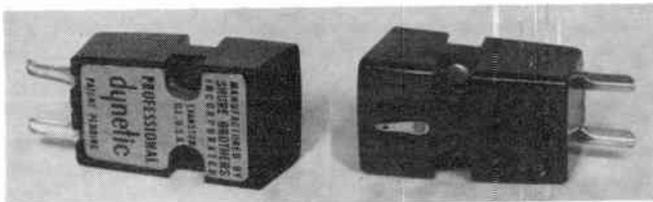
Award No. 49: Garrard RC121 II 4-speed changer. Second from lowest in price range of the four Garrard changer models, this is a revised design incorporating a number of excellent features. It operates at 16, 33, 45, and 78 rpm. Up to ten 10 or 12-in. records of the same speed can be intermixed. Separate, concentric controls permit the choice of automatic or manual operation. On manual, the arm is free and disengaged from the cycling mechanism except at the

end of the record, when the arm is returned to the starting position, and the motor is switched off. In addition, a brake acts in the inside rim of the turntable to stop it quickly when the motor switch is actuated.

The head which carries the pickup has three plug-in contacts, with connections for a stereo pickup. Thus, with an extra head, both monaural and stereo pickups can be used. Price without pickup \$42.50; Base \$4.60 additional.



Award No. 50: Shure Dynetic cartridge. Originally sold only with the Shure tone arm, the Dynetic cartridge is now available



separately, as illustrated. The stylus is mounted on an arm carried by a magnetized shank. This assembly can be removed when it is necessary to replace the stylus. Any standard head will take this pickup. Recommended stylus force is 3 to 6 grams, depending upon the particular arm used. A 1-mil diamond or a 3-mil sapphire is furnished with the separate cartridge. The .7-mil stylus which tracks at 1 to 2 grams is supplied only with the pickup mounted on the Shure arm. Price with 1-mil diamond is \$27.50; with 3-mil sapphire, \$15.00.

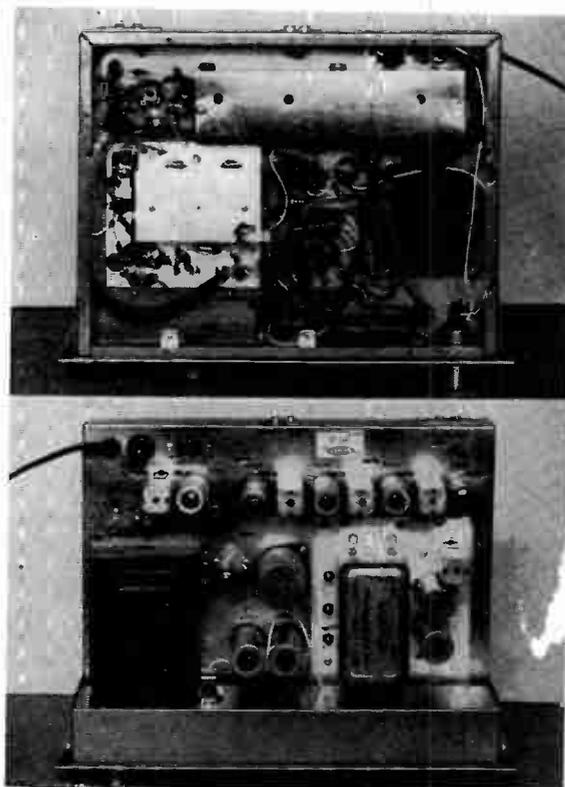


**Award No. 51: H. H. Scott model 310-B FM tuner.** While the 310-B is similar in appearance to the original 310 design, mechanical and electrical refinements have been made which contribute to the overall performance.

The upper front-panel control is for volume. Once set, it does not require readjustment from station to station, for the automatic volume control maintains constant level. The lower control is for the Dynaural noise suppressor. It should be adjusted until no noise is heard between stations. On extremely weak signals, the control should be disabled by turning the knob to 10 on the scale.

Jacks at the rear of the chassis provide about 5 volts from OUTPUT, or 1 volt from TAPE. If the level from OUTPUT is too high to drive a particular amplifier, the TAPE connection should be used.

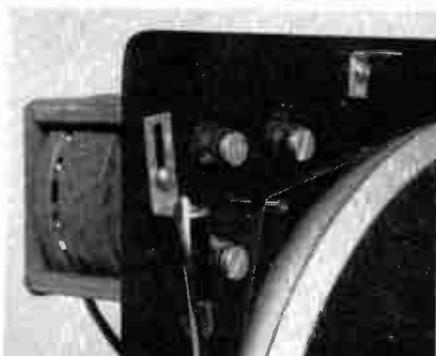
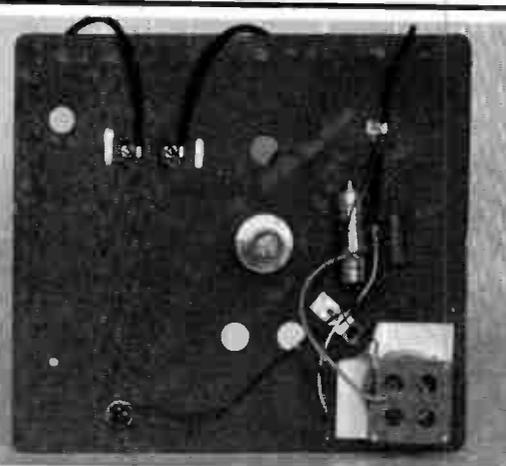
The meter serves as a tuning indicator and also as a signal-strength meter. That is, the tuning is adjusted for maximum



swing. The stronger the signal, the farther the pointer will move to the right at resonance.

Only criticism of this tuner is that the 10 major divisions of the logging scale are divided into 4 parts, instead of 5, so that readings for individual stations cannot be recorded in decimal figures.

Mechanically and electrically, this is an excellent FM tuner, with exceptionally high sensitivity, selectivity, and stability. Price is \$189.95.



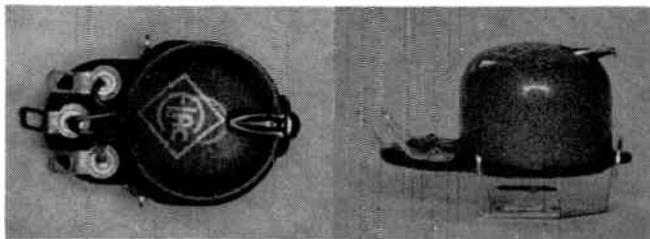
**Award No. 52: Gray model 33-H 33-rpm turntable.** The most advanced features have been engineered into this turntable. Reflecting the tendency of those concerned with high-quality music from records, this model is designed to operate at 33 rpm. only, thereby eliminating complications introduced by speed-change mechanisms. Terminals and leads with pin jacks are provided for connections to a stereo pickup. As a means of increasing the inertia of the power source, and thereby reducing wow and flutter, the casing of the hysteresis mo-

tor rotates, in contrast to the usual construction in which the rotating element is an armature of less weight and smaller diameter. This accounts for the appearance of the motor, shown in the picture at the left.

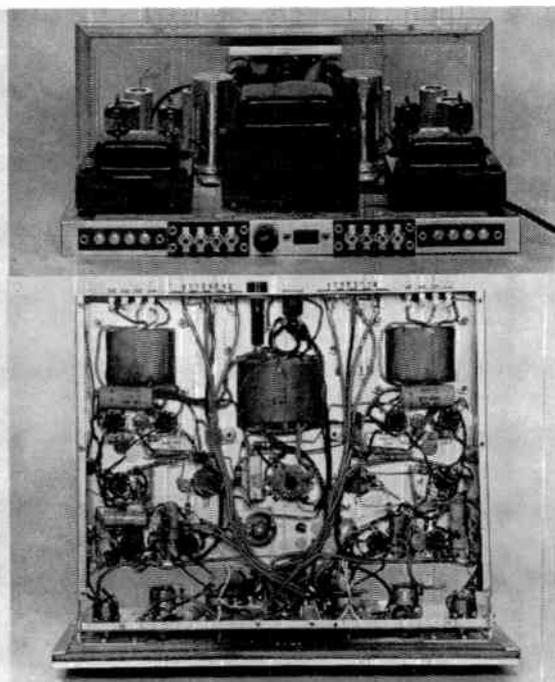
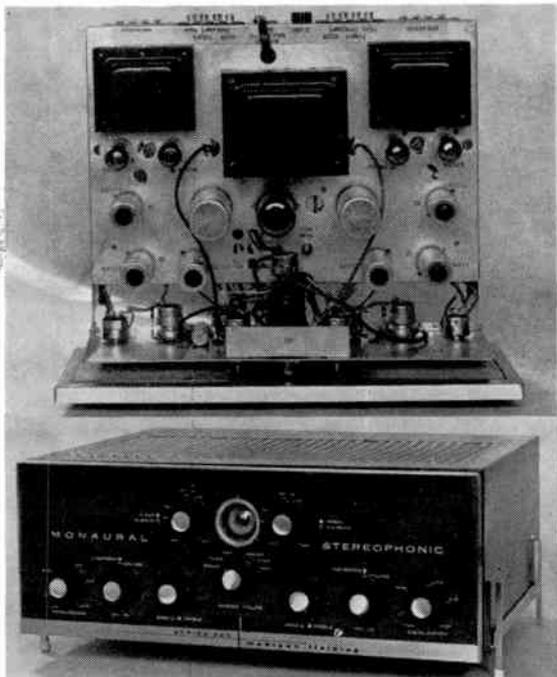
In the top view, the new Gray tone arm is mounted on the  $\frac{1}{8}$ -in. steel plate, although any other 12-in. arm can be used. The plate is 16 ins. wide by  $14\frac{1}{4}$  deep; a clearance of 3 ins. is required beneath the plate. Turntable is machined aluminum. Price is \$79.95.

**Award No. 53: Audiogersh stereo pickup.** Our entire staff took time off to listen to this pickup, for it was the first submitted for our use. It came mounted on the arm of an Audiogersh changer, but we used it with the manual-operation spindle.

This is a variable-reluctance type of pickup, intended for 45/45 stereo records. Opinion was unanimous that the performance was equal if not superior to what we have heard at the various demonstrations given by manufacturers of stereo discs for the press. We were also very pleased with the performance of this pickup on monaural records. It can be mounted in any standard head. Recommended stylus force is 4 grams with a

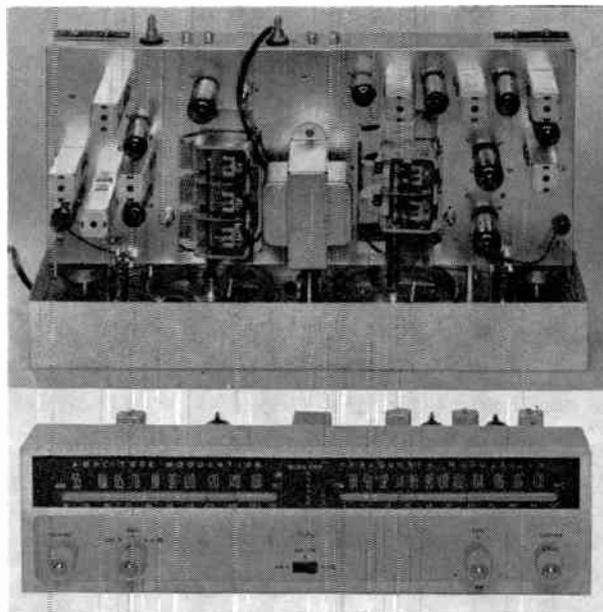
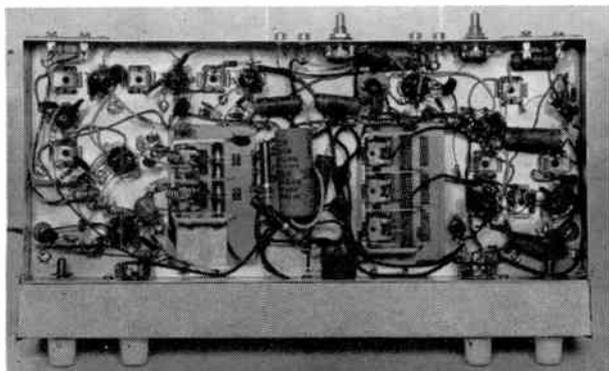


turntable, and 6 grams with a changer. Price with .7-mil diamond is \$59.50.



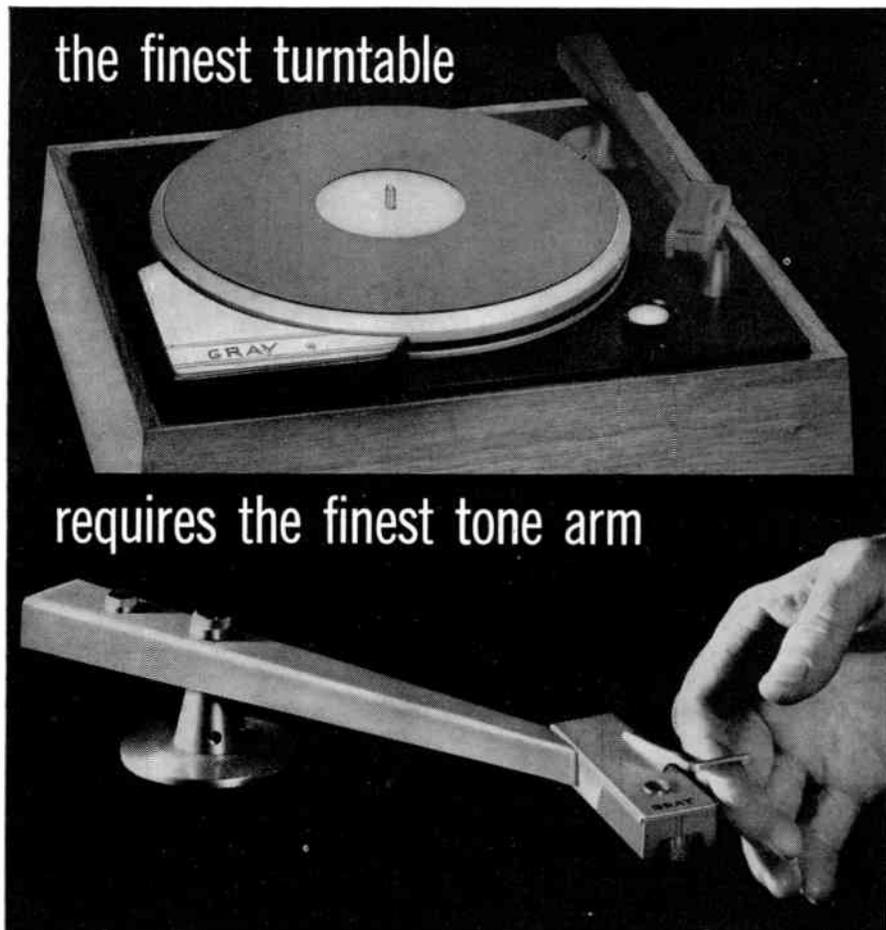
**Award No. 54: Madison Fielding series 320 stereo preamp-amplifier,** rated 20 watts output on each channel. Two preamp-amplifiers are contained in this unit. At the center of the panel is the master gain control. Concentric with it is the selector switch for monaural preamp, radio, tape; and stereo preamp, radio, and tape. In the monaural positions, an electronic crossover at 600 cycles feeds a woofer and a tweeter separately.

Each channel has an equalization control, and concentric loudness and volume, and bass and treble controls. Also, on each side of the dual magic eye is a level control calibrated from .25 to 20 watts, and a concentric balance control. The rear view shows four pairs of pin jacks for one low-level and two high-level inputs, and tape monitoring. Speaker terminals are for 4, 8, and 16 ohms. Price is \$169.95; metal case \$19.95.



**Award No. 55: Arkay model ST-11 FM-AM stereo tuner.** Separate circuits can be switched to either FM or AM, or to both for stereo reception. On the FM side there is an AFC switch, and a narrow-band switch on the AM side. Each section has a cathode follower output, with a level-set control and pin jacks for amplifier and tape connections. Chassis is 15 ins. wide, 4 high, and 8 deep. Price is \$74.50; cover \$3.95. Also in kit form at \$49.95.

the finest turntable



requires the finest tone arm

## THEY'RE BOTH MADE BY GRAY!

### America's First, Quality Turntable designed for the new Stereo Discs!

The new Gray 33-H Turntable, designed specifically for stereo discs, is your best buy in High Fidelity equipment. Since stereo disc reproduction demands turntable components with extremely low vibration, this insures the highest quality reproduction of conventional microgroove recordings. Shock-mounted hysteresis synchronous motor. Superior construction and a minimum of moving parts assure long trouble-free life. Price \$79.95.

### New Gray Micro-Balanced Tone Arm with Dual Viscous Damping!

Three years of Gray research brings you exclusive *dual viscous damping* providing maximum tracking stability and static balance. Result: finest sound reproduction designed for all popular cartridges. Adjustable stylus force. Price \$34 for 12-inch and \$36.50 for 16-inch arm.

### New Gray Micro-balanced Pressure Gauge Saves Your Styli, Your Records, Your Money!

Incorrect pressure on your stylus produces distortion and record damage. The easy-to-use Gray pressure gauge helps you to check and adjust your tone arm, tells you at a glance when the stylus pressure is correct. Price \$2.50.

THE **GRAY** MANUFACTURING CO., 16 ARBOR ST., HARTFORD 1, CONN.

## HI-FI DEMONSTRATIONS

It's about time that we start to distinguish between those who are interested in *volume of sound*, and those who are interested in *quality of reproduction*. Up to this time, it has been generally assumed that they are one and the same, comprising the group we call the hi-fi enthusiasts.

This was so forcefully brought out at a recent demonstration of stereo records and equipment staged by a company that is new in this field. Someone had readied the setup in advance. After a brief address, the president of the company turned the switch, and out came the music. But, no, that was not music!

The volume of sound was so intense as to mask the music completely, while the distortion was what one would expect a severely overloaded system. Yet the company executives stood around before their audience as if they were unanimously happy to share a treat, and confident that it was being enjoyed by all present. What happened after that cannot be reported here, because this member of the audience walked out!

More and more frequently one hears the comment: "I just don't care for hi-fi. It's too loud." That is a sad commentary on the manner in which hi-fi equipment is so frequently demonstrated. It makes no more sense than for an automobile sales-

*Continued on page 63*

## STEREO DISCS

*Continued from page 38*

buy one. In addition, it eliminates the need for producing monaural and stereo discs of each title. This is an inventory problem for both the manufacturers and the dealers, since stereo tapes of the same titles must be produced and carried in stock, too.

We could evaluate the need for compatible discs if we knew how quickly, and to what extent the sale of stereo equipment, initiated by recorded tapes, is going to grow. Sales are still small in relation to the purchase of phonographs, but tape has added "stereo" to our national vocabulary, and has launched an accelerating demand for stereo tape machines and the associated components. It is already evident that packaged phonographs without stereo pickups selling at \$150 or more will be obsolete this fall, and that all models at that price and above will at least have connections for adding an amplifier and speaker.

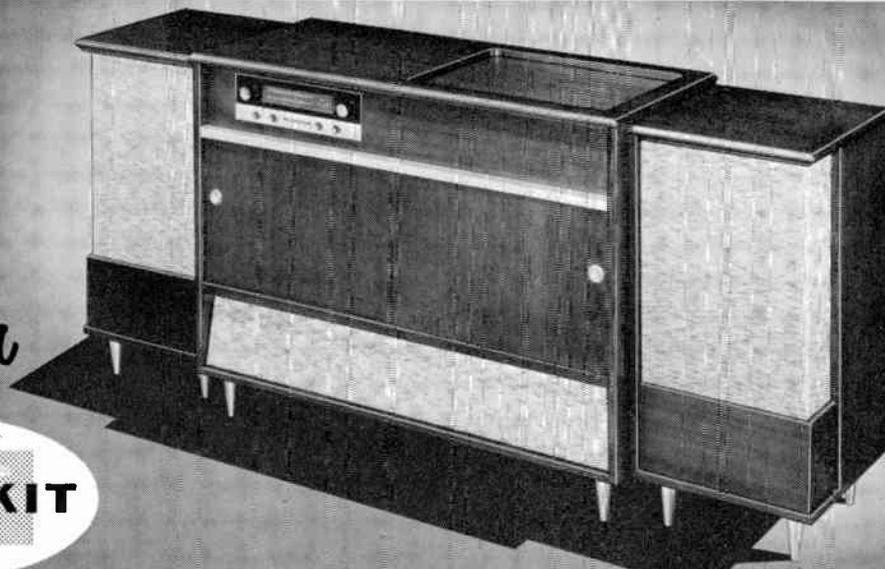
As for the cheap phonographs, we would venture the suggestion that the real need will be for an inexpensive compatible monaural pickup designed specifically to play both "non-compatible" stereo discs as well as the ordinary monaural records.

This, it appears, would take care of those who want to play 45's and both

*Continued on page 56*

You've  
been  
asking for

**HEATHKIT**



**stereo sound equipment . . . and here it is!**



**stereo  
tape deck kit**

HEATHKIT  
MODEL TR-1D **\$143<sup>95</sup>**

Enjoy the wonder of Stereophonic sound in your own home! Precision engineered for fine performance, this tape deck provides monaural-record/playback and stereo playback. Tape mechanism is supplied complete. You build only the preamplifier. Features include two printed circuit boards—low noise EF-86 tubes in input stages—mic and hi-level inputs—push-pull bias-erase oscillator for lowest noise level—two cathode follower outputs, one for each stereo channel—output switch for instantaneous monitoring from tape while recording. VU meter and pause control for editing. Tape speeds 3 $\frac{3}{4}$  and 7 $\frac{1}{2}$  IPS. Frequency response  $\pm 2$  db 40-12,000 CPS at 7 $\frac{1}{2}$  IPS. Wow and flutter less than .3%. Signal-to-noise 55 db at less than 1% total harmonic distortion. NARTB playback equalization. Make your own high quality recordings for many pleasant listening hours.

**stereo equipment  
cabinet kit**

HEATHKIT MODEL SE-1  
(Price to be announced soon)

Beautifully designed, this stereo equipment cabinet has ample room provided for an AM-FM tuner—tape deck—preamplifier—amplifiers—record changer—record storage and speakers. Constructed of  $\frac{3}{4}$ " solid-core Philippine mahogany or select birch plywood, beautifully grained. Top has shaped edge and sliding top panel. Sliding doors for front access. Mounting panels are supplied cut to fit Heathkit units with extra blank panels for mounting your own equipment. Easy-to-assemble, all parts are pre-cut and pre-drilled. Includes all hardware, glue, legs, etc. and detailed instruction manual. Speaker wings and center unit can be purchased separately if desired. Overall dimensions with wings 82" W. x 37" H. x 20" D. Send for free details.



**DELUXE AM-FM  
TUNER KIT**

HEATHKIT  
MODEL PT-1 **\$89<sup>95</sup>**

Here is a deluxe combination AM-FM tuner with all the advanced design features required by the critical listener. Ideal for stereo applications since AM and FM circuits are separate and individually tuned. The 16-tube tuner uses three circuit boards for easy assembly. Prewired and prealigned FM front end. AFC with on/off switch—flywheel tuning and tuning meter.



**STEREO PRE-  
AMPLIFIER KIT**

HEATHKIT MODEL SP-1  
(Price to be announced soon)

This unique two-channel control center provides all controls necessary in stereo applications. Building block design lets you buy basic single channel now and add second snap-in channel later for stereo without rewiring. 12 inputs each with level control—NARTB tape equalization—6 dual concentric controls including loudness controls—built-in power supply.



**55 WATT HI-FI  
AMPLIFIER KIT**

HEATHKIT  
MODEL W-7M **\$54<sup>95</sup>**

First time ever offered—a 55-watt basic hi-fi amplifier for \$1 per watt. Features EL-34 push-pull output tubes. Frequency response 20 CPS to 20 KC with less than 2% harmonic distortion at full output throughout this range. Input level control and "on-off" switch provided on front panel. Unity or maximum damping factors for all 4, 8 or 16 ohm speakers.



**12 WATT HI-FI  
AMPLIFIER KIT**

HEATHKIT  
MODEL UA-1 **\$21<sup>95</sup>**

Ideal for stereo applications, this 12-watt power package represents an outstanding dollar value. Uses 6BQ5/EL84 push-pull output tubes. Less than 2% total harmonic distortion throughout the entire audio range (20 to 20,000 CPS) at full 12-watt output. Designed for use with preamplifier models WA-P2 or SP-1. Taps for 4, 8 and 16 ohm speakers.

**For complete information on above kits—Send for FREE FLYER.**

**HEATH COMPANY • a subsidiary of Daystrom, Inc. • Benton Harbor 8, Mich.**

*easy-to-build*

*high quality*

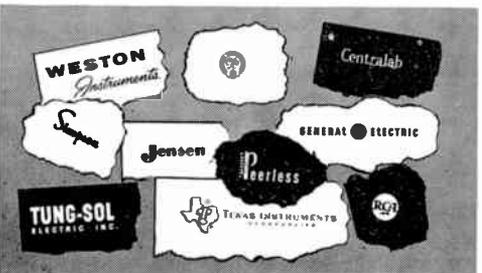
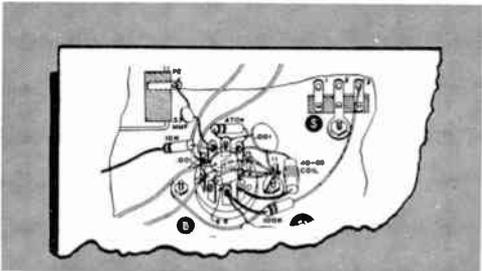
# HEATHKITS®

**Look** . . . how simply you can assemble your very own high fidelity system! Fun-filled hours of shared pleasure, and an everlasting sense of personal accomplishment are just a few of the rewards. Heathkits cost you only HALF as much as ordinary equipment and the quality is unexcelled. Let us show you how easy it really is! . . .



✓ Install a .001 µd disc condenser from socket B7 (NS) to ground lug B11 (NS). Cut the leads so that they are just long enough to reach and dress the condenser close to chassis, over the wires already present.

( ) Connect a 470 KΩ resistor (yellow-violet-yellow) from socket B7 (S) (2) to B8 (NS). Mount as close to the socket as possible.



### Step-by-Step Assembly Instructions . . .

Read the step . . . perform the operation . . . and check it off—it's just that simple! These plainly-worded, easy-to-follow steps cover every assembly operation.

### Easy-to-follow Pictorial Diagrams . . .

Detailed pictorial diagrams in your Heathkit construction manual show where each and every wire and part is to be placed.

### Learn-by-doing Experience For All Ages . . .

Kit construction is not only fun—but it is educational too! You learn about radio, electronic parts and circuits as you build your own equipment.

### Top Quality Name-Brand Components Used in All Kits . . .

Electronic components used in Heathkits come from well-known manufacturers with established reputations. Your assurance of long life and trouble-free service.



HEATHKIT

**bookshelf 12-watt amplifier kit**

# NEW

MODEL EA-2

**\$27<sup>95</sup>**

There are many reasons why this attractive amplifier is a tremendous dollar value. You get many extras not expected at this price level. Rich, full range, high fidelity sound reproduction with low distortion and noise . . . plus "modern" styling, making it suitable for use in the open, on a bookcase, or end table. Look at the features offered by the model EA-2: full range frequency response (20—20,000 CPS ± 1 db) with less than 1% distortion over this range at full 12 watt output—its own built-in preamplifier with provision for three separate inputs, mag phono, crystal phono, and tuner—RIAA equalization—separate bass and treble tone controls—special hum control—and it's easy-to-build. Complete instructions and pictorial diagrams show where every part goes. Cabinet shell has smooth leather texture in black with inlaid gold design. Front panel features brushed gold trim and buff knobs with gold inserts. For a real sound thrill the EA-2 will more than meet your expectations. Shpg. Wt. 15 lbs.

**TIME PAYMENTS AVAILABLE ON ALL HEATHKITS WRITE FOR FULL DETAILS**



## chairside enclosure kit

# NEW

This beautiful equipment enclosure will make your hi-fi system as attractive as any factory-built professionally-finished unit. Smartly designed for maximum flexibility, it offers the same consistent with attractive appearance to house the AM and FM tuners, WA-P2 preamplifier, along with the components of your hi-fi system. It will fit in the space provided for any of the Heathkit amplifiers. During construction the tilt-out shelf and top can be installed on either right or left side as desired. Cabinet is constructed of sturdy, veneer-surfaced furniture-grade plywood 1/2" and 3/4" thick. All parts are precut and predrilled for easy assembly. Contemporary available in birch or mahogany, traditional in mahogany only. Beautiful hardware supplied to match each style. Dimensions are 18" W x 24" H x 35 1/2" D. Shpg. Wt. 46 lbs.



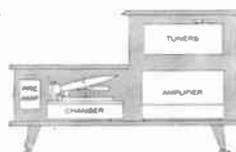
CE-1C Mahogany  
CE-1CB Birch

**CONTEMPORARY**



CE-1T Mahogany

**TRADITIONAL**



Be sure to specify model you prefer

**\$43<sup>95</sup>** each



**HEATHKIT**

### high fidelity FM tuner kit

For noise and static free sound reception, this FM tuner is your least expensive source of high fidelity material. Efficient circuit design features stabilized oscillator circuit to eliminate drift after warm-up and broadband IF circuits assure full fidelity with high sensitivity. All tunable components are prealigned so it is ready for operation as soon as construction is completed. The edge-illuminated slide rule dial is clearly numbered for easy tuning. Covers complete FM band from 88 to 108 mc. Shpg. Wt. 8 lbs.

**MODEL FM-3A \$25.95 (with cabinet)**

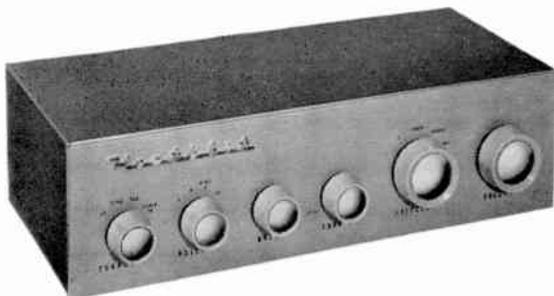


**HEATHKIT**

### broadband AM tuner kit

This tuner differs from an ordinary AM radio in that it has been designed especially for high fidelity. A special detector is incorporated and the IF circuits are "broadbanded" for low signal distortion. Sensitivity and selectivity are excellent and quiet performance is assured by a high signal-to-noise ratio. All tunable components are prealigned before shipment. Incorporates automatic volume control, two outputs, and two antenna inputs. An edge-lighted glass slide rule dial allows easy tuning. Your "best buy" in an AM tuner. Shpg. Wt. 9 lbs.

**MODEL BC-1A \$25.95 (with cabinet)**



**HEATHKIT**

### master control preamplifier kit

Designed as the "master control" for use with any of the Heathkit Williamson-type amplifiers, the WA-P2 provides the necessary compensation, tone, and volume controls to properly amplify and condition a signal before sending it to the amplifier. Extended frequency response of  $\pm 1\frac{1}{2}$  db from 15 to 35,000 CPS will do full justice to the finest program material. Features equalization for LP, RIAA, AES, and early 78 records. Five switch-selected inputs with separate level controls. Separate bass and treble controls, and volume control on front panel. Very attractively styled, and an exceptional dollar value. Shpg. Wt. 7 lbs.

**MODEL WA-P2 \$19.75 (with cabinet)**

pioneer in  
"do-it-yourself"  
electronics

**HEATH**

a subsidiary of Daystrom, Inc.

**COMPANY • BENTON HARBOR 8, MICHIGAN**



**HEATHKIT 25-WATT**

MODEL W-5M

**\$59<sup>75</sup>**



**HEATHKIT**

**high fidelity amplifier kits**

To provide you with an amplifier of top-flight performance, yet at the lowest possible cost, Heath has combined the latest design techniques with the highest quality materials to bring you the W-5M. As a critical listener you will thrill to the near-distortionless reproduction from one of the most outstanding high fidelity amplifiers available today. The high peak-power handling capabilities of the W-5M guarantee you faithful reproduction with any high fidelity system. The W-5M is a **must** if you desire quality plus economy! Note: Heathkit WA-P2 preamplifier recommended. Shpg. Wt. 31 lbs.

For an amplifier of increased growing capacities of your provides you with the Heathkit loud speaker systems improve approach a dynamic range close Heath brings to you an amplifier plenty of reserve power without distortion ing for a high powered amplifier of outstanding quality, yet at a price well within your reach, the W-5M is for you! Note: Heathkit model WA-P2 preamplifier recommended. Shpg. Wt. 52 lbs.

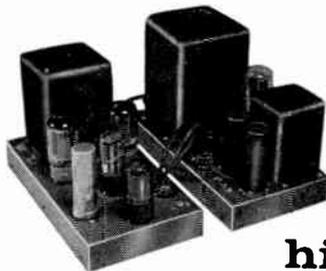
**DISC**

page 50

LP's on low-priced edition, many would non-compatible pick- sive compatible mon- ll be no problem with ements that have 45/45 ce they can play all

**Equipment**

es paved the way for d: promotion r e to the sale nufacturers: will be pur rec

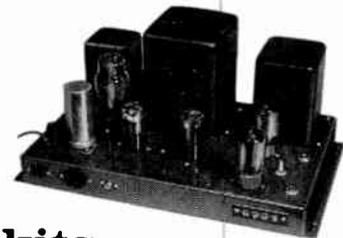


**HEATHKIT DUAL-CHASSIS**  
MODEL W3-AM

**\$49<sup>75</sup>**

**HEATHKIT SINGLE-CHASSIS**  
MODEL W4-AM

**\$39<sup>75</sup>**



**high fidelity amplifier kits**

One of the greatest developments in modern hi-fi reproduction was the advent of the Williamson amplifier circuit. Now Heath offers you a 20-watt amplifier incorporating all of the advantages of Williamson circuit simplicity with a quality of performance considered by many to surpass the original Williamson. Affording you flexibility in custom installations, the W3-AM power supply and amplifier stages are on separate chassis allowing them to be mounted side by side or one above the other as you desire. Here is a low cost amplifier of ideal versatility. Shpg. Wt. 29 lbs.

In his search for the "perfect" amplifier, Williamson brought to the world a now-famous circuit which, after eight years, still accounts for by far the largest percentage of power amplifiers in use today. Heath brings to you in the W4-AM a 20-watt amplifier incorporating all the improvements resulting from this unequalled background. Thousands of satisfied users of the Heathkit Williamson-type amplifiers are amazed by its outstanding performance. For many pleasure-filled hours of listening enjoyment this Heathkit is hard to beat. Shpg. Wt. 28 lbs.



**HEATHKIT**

**high fidelity amplifier kit**

MODEL A-9C **\$35<sup>50</sup>**

For maximum performance and versatility at the lowest possible cost the Heathkit model A-9C 20-watt audio amplifier offers you a tremendous hi-fi value. Whether for your home installation or public address requirements this power-packed kit answers every need and contains many features unusual in instruments of this price range. The preamplifier, main amplifier and power supply are all on one chassis providing a very compact and economical package. A very inexpensive way to start you on the road to true hi-fi enjoyment. Shpg. Wt. 23 lbs.

**HEATHKIT**

**electronic crossover kit**

MODEL XO-1 **\$18<sup>95</sup>**

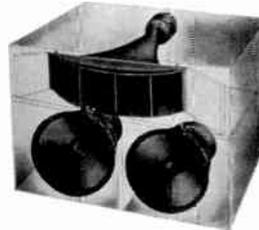
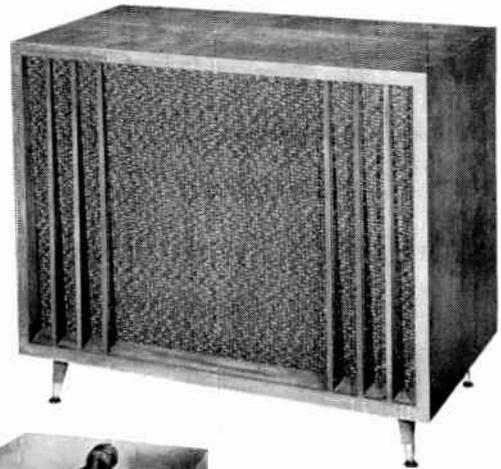


One of the most exciting improvements you can make in your hi-fi system is the addition of this Heathkit Crossover model XO-1. This unique kit separates high and low frequencies and feeds them through two amplifiers into separate speakers. Because of its location ahead of the main amplifiers, IM distortion and matching problems are virtually eliminated. Crossover frequencies for each channel are 100, 200, 400, 700, 1200, 2000 and 3500 CPS. Amazing versatility at a moderate cost. Note: Not for use with Heathkit Legato Speaker System. Shpg. Wt. 6 lbs.

**HEATHKIT "LEGATO"**

**speaker system kit**

of high fidelity music in its true form. Thrill to resonant bass chords or the spine-tingling highs in this masterpiece of sound reproduction. No stone has been left unturned to bring elegance and sheer beauty of style. The secret to its success is its unique balance of sound. The design of its low frequency drivers takes you on a melodic journey through the heights of 20,000 CPS into the low 20's without the least faltering along the way. The elegant simplicity of style will complement any furnishings in any part of the home. No electronic know-how or working experience required for construction. Just follow clear, illustrated step-by-step instructions. We are proud to present the Legato—we know you will be proud to own it! Shpg. Wt. 195 lbs.



MODEL HH-1-C  
(imported white birch)  
MODEL HH-1-CM  
(African mahogany)

**\$325<sup>00</sup>** each



**HEATHKIT  
BASIC RANGE**



**HEATHKIT  
RANGE EXTENDING**

**high fidelity speaker system kits**

MODEL **\$39<sup>95</sup>**  
SS-1

A truly outstanding performer for its size, the Heathkit model SS-1 provides you with an excellent basic high fidelity speaker system. The use of an 8" mid-range woofer and a high frequency speaker with flared horn enclosed in an especially designed cabinet allows you to enjoy a quality instrument at a very low cost. Can be used with the Heathkit "range extending" (SS-1B) speaker system. Easily assembled cabinet is made of veneer-surfaced furniture-grade 1/2" plywood. Impedance 16 ohms. Shpg. Wt. 25 lbs.

Designed to supply very high and very low frequencies to fill out the response of the basic (SS-1) speaker, this speaker system extends the range of your listening pleasure to practically the entire range of the audio scale. Giving the appearance of a single piece of furniture the two speakers together provide a superbly integrated four speaker system. Impedance 16 ohms. Shpg. Wt. 80 lbs.

MODEL **\$99<sup>95</sup>**  
SS-1B

**Free Catalog!**

Don't deprive yourself of the thrill of high fidelity or the pleasure of building your own equipment any longer. Our free catalog lists our entire line of kits with complete schematics and specifications. Send for it today!



**NEW! "DOWN-TO-EARTH" HIGH FIDELITY BOOK**



THE HOW AND WHY OF HIGH FIDELITY, by Milton Sleeper, explains what high fidelity is, and how you can select and plan your own system. This liberally-illustrated, 48-page book tells you the HI-FI story without fancy technical jargon or high-sounding terminology. **25c**

**HEATH**

*pioneer in  
"do-it-yourself"  
electronics*

**COMPANY • BENTON HARBOR 8, MICHIGAN**



subsidiary of Daystrom, Inc.

- Please send the Free HEATHKIT catalog.
- Enclosed is 25c for the New HI-FI book.

name \_\_\_\_\_  
address \_\_\_\_\_  
city & state \_\_\_\_\_

**ALSO SEND THE FOLLOWING KITS:**

QUANTITY	ITEM	MODEL NO.	PRICE

Enclosed find \$..... Please enclose postage for parcel post—express orders are shipped delivery charges collect. All prices F.O.B. Benton Harbor, Mich. NOTE: Prices subject to change without notice.

# AMPEX STEREO

SIGNATURE OF PERFECTION IN SOUND



**Recorder-Stereophonic Reproducer** — Two-speed, precision-built tape transport, capable of playing over 4 hours from a single 7" reel of tape; sustained frequency response 30-16,000 cps (7½ ips), with dynamic range over 55 db; Flutter and wow under 0.25% rms at 7½ ips; Precision timing accuracy affords perfection of pitch held to tolerances of less than ½ of a half tone at highest frequencies.

**Amplifier-Speakers** — Electronically and acoustically matched for optimum reproduction of stereo and monaural sound. These units deliver more undistorted sound per watt than the great majority of 12" and 15" speakers available today. Environmental inverse feedback from speaker voice coil circuit to cathode of first amplifier stage affords improved damping, lower distortion. Tilt-out push-button control panel for selecting input (Tape, TV, Tuner, or Phono); bass, treble and volume controls.

**Complete Specifications**—Information on the units shown above, plus consoles, portables, and unmounted units, available in free new full-color brochure.

Here is a stereo system you'll be as proud to show as you will to operate. The Ampex A121-SC Modular home music system was designed to satisfy not only the needs of the audio perfectionist, but also the increasing desire for a system that is as pleasing to the eyes as it is to the ears.

The A121-SC is an integrated system, and though any of the individual units can be incorporated smoothly into your own system, the combination of the three provides a level of performance not possible to achieve by any other means.

-----  
**AMPEX AUDIO, INC.**  
1042 KIFER ROAD,  
SUNNYVALE, CALIFORNIA  
Please send free full-color folder:

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_

5



## STEREO

Continued from

monaural and stereo phonographs. In addition, they will replace their present pickups with an inexpensive monaural type. There will be no higher-priced instruments with stereo pickups, since the same types of records.

### Disc-and-Tape

Just as stereo tape machines are introducing stereo disc players, stereo discs will compete with stereo tapes. Thus, manufacturers will package stereo phonographs with controls and terminals to provide controls and terminals for connecting tape machines. Then their instruments can be used to play both discs and tapes.

The components manufacturers are already designing their preamps and preamplifiers with terminals and selector switches for stereo tapes, records, and radio, and for playing any monaural source over both speakers.

It looks, therefore, as if most people who take their music-at-home seriously will eventually have stereo tape machines, and turntables or changers with stereo pickups. And what about tape magazines? That raises the question: Are they necessary? Surely it's easier to master the knack of starting a tape by just holding the end of the tape on the hub and turning the reel around once than learning how to operate the fancy controls they're putting on new kitchen stoves!

## LET'S MAKE MUSIC

Continued from page 21

Rupp. "The extraordinary accompaniments of Franz Rupp went far to accomplish the total perfection of effect." So wrote Robert Lawrence, in *The New York Times*. The *San Francisco Chronicle's* music critic, Albert Frankenstein, noted, "As always, Franz Rupp was the consummate accompanist." But, for all his work and ability, the critics sometimes pass the accompanist over with, "At the piano, Franz Rupp."

At first, Mr. Rupp may be taken aback, but up he bounces again. He knows the discord can be a difference in interpretation, it can be that the critic had an off-night, or maybe the accompanist had! After each concert, Franz Rupp works to strengthen any weak spot. "My feeling of need for improvement," he declared, "forever goads me."

"In America, popular acclaim is all for the solo celebrity. In the old countries," he said, "a musician is a musician whether he plays first or second fiddle. It is customary, over there, to give the soloist and accompanist equal billing and to give each due respect and appreciation for his part in the performance."

Franz Rupp, himself, is often spot-

Continued on page 57

## LET'S MAKE MUSIC

Continued from page 56

lighted as a solo pianist. To be an accompanist and at the same time a piano virtuoso is a real accomplishment. *La Prensa*, Buenos Aires, said of him, "Again we listened to the artist Franz Rupp, by now well known to us. In reality we have a pianist with precise mechanism. In Beethoven he displayed a great vigor and expression. Because of Mr. Rupp's respect for the composition he plays, his interpretations are of truest fidelity."

Of all his critics, he thinks his wife is the most discriminating. She comes from the old musical Moskowski family of Poland, and coaches opera singers. She is proud of her husband's abilities and his accomplishments.

Franz Rupp began his music in his Bavarian home town of Schongau. When five years old he studied violin with his father. When seven he put down the violin for the piano. At fourteen, he entered the Munich Academy and each year, there, won the Grand Prize awarded by the Bavarian Government.

As naturalized Americans, Mr. and Mrs. Rupp have made the same Central Park apartment their headquarters and home for nineteen years. In Central Park, they walk a lot together. A frequent walking companion was Dr. Albert Einstein, a friend for years.

Once while tramping a Colorado mountain road, the Rups found a new acquaintance, a gold miner, also spending a holiday hiking the hills. That evening, the three sat in the Rupp cabin around the open fire and had coffee, the aroma of the coffee mixing pleasantly with that of the burning pitch-pine. Franz could not help noticing that his guest cast a longing glance from time to time toward the shining grand piano that stood before the wide windows of the cabin. He knew what this meant, alas! His friend hoped that he would play. But after all, he was here for a rest — to get away from the keyboard, to forget for awhile the rigors of the concert season ahead. Nevertheless, instead of going out to the kitchen to brew another pot of coffee as he had intended, he went, instead, to the piano and played very softly at first, an arrangement of Schubert's *Serenade*. To his amazement, their guest, just as softly, began to sing in a baritone of great and longing beauty, the German of the original text. "You are an artist," Franz Rupp congratulated his fellow-musician when they had finished. "Now — let's try it again. This time, full voice!"

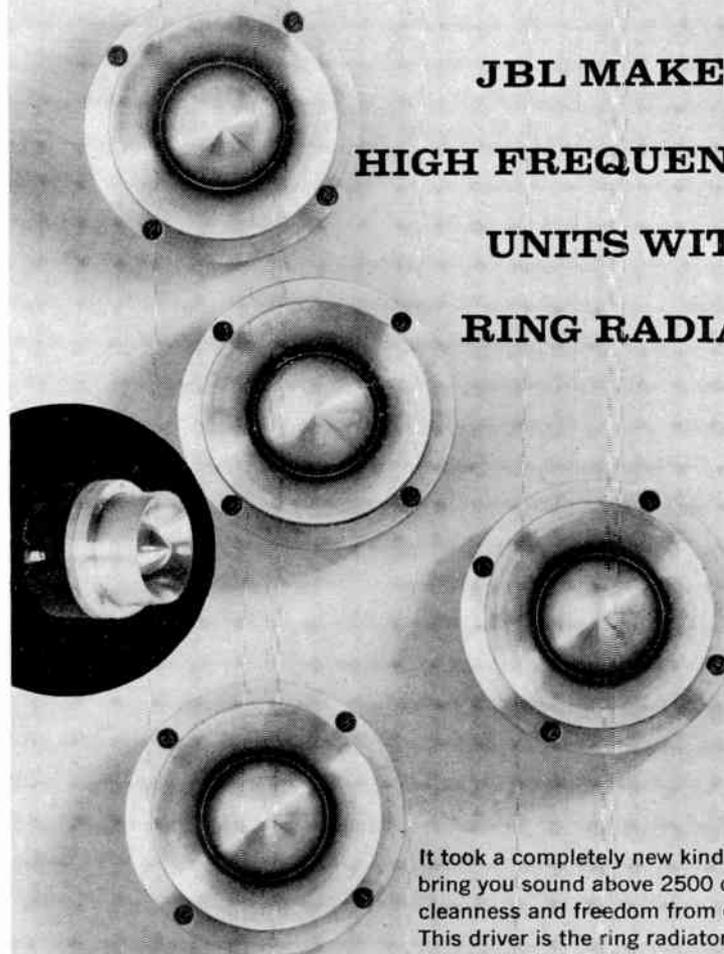
And so, long into that chilly Colorado summer night, after Mrs. Rupp had prepared another giant pot of scalding coffee, the great *lieder* of Schubert, Schumann, and Brahms echoed through the pine-clad canyons of the Rockies. *At the piano, Franz Rupp.*

It is the same for each artist he accom-

Continued on page 58

# only

## JBL MAKES HIGH FREQUENCY UNITS WITH THE RING RADIATOR



It took a completely new kind of driver to bring you sound above 2500 cps with an ideal cleanness and freedom from distortion. This driver is the ring radiator, developed in the laboratories of James B. Lansing Sound, Inc., and utilized in the JBL Signature 075. The inherent advantage of a ring over the conventional diaphragm is that there is virtually no unsupported surface to create resonances. The ring in the 075 has a V shaped cross section and is attached directly to a 1 3/4" aluminum ribbon voice coil. The ring radiator is "loaded" with an aluminum exponential horn which has a unique throat with an annular slit rather than a circular hole. It is apparent when you look at the 075 that here is a massive, solid piece of precision craftsmanship. Its very appearance bespeaks the smooth, clean, peak-free, realistic high frequencies it generates. We will be happy to send you a copy of the free new JBL catalog, a technical bulletin describing the 075, and the name of your nearest Authorized JBL Signature Audio Specialist if you will but drop us a card or letter.



"JBL" MEANS JAMES B. LANSING SOUND, INC., 3249 CASITAS AVENUE, LOS ANGELES 39, CALIF.

Some facts on the  
measure of the

JansZen\* loudspeaker

One very important measure of a loudspeaker's capability as a true high fidelity component lies in its ability to reproduce music with the same emphasis at all volume levels. As the volume control is turned from maximum to minimum, each instrument of an orchestra should remain in the same perspective . . . the effect being of walking farther and farther away from a live orchestra as it is playing.

When a response curve is taken on a JansZen speaker from the lowest listening level up to a full 50 watts of power, the resultant curves are absolutely identical.

This is a true measure of smooth response, which in turn is a measure of the similarity between what goes into a recording microphone compared with what comes out of your speaker at home. Hence, it is a measure of whether a high fidelity speaker is in fact what it is supposed to be.

A response curve is taken on every JansZen speaker before it leaves the factory. Only in that way can it be assured that each speaker is right. Only in that way can it be assured that all speakers are exactly the same. That's why most knowledgeable listeners consider JansZen as The Speaker.

\*DESIGNED BY ARTHUR A. JANSZEN

Write for literature and the name of your nearest dealer

Product of NESHAMINY ELECTRONIC CORP., Neshaminy, Pa.

Export Division: 25 Warren Street, N.Y.C. 7, Cable Simonrice, N.Y.



NO BURGLARS  
need apply

... and no burglar tools need be applied to the ESL C-60 Series electrodynamic cartridge. Most pickups require a change in your preamplifier's input resistor, which usually means opening the amplifier to alter with special tools a portion of its complicated wiring. But not with the ESL! No matter what your preamplifier's present input resistor, the performance of the ESL C-60 Series is completely unaffected. No step-up transformers are needed, either.

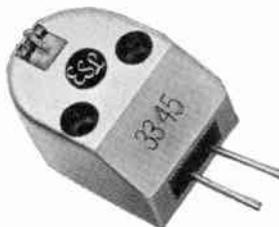
Most important, the ESL C-60 Series is the world's most advanced cartridge—acknowledged as the finest you can buy for your record changer or arm.

Send for your free copy of "The Cartridge of Tomorrow" to discover thirty-eight reasons why the ESL C-60 Series is tops on every count. For only \$39.50, you can own the cartridge that's years ahead.

FOR LISTENING AT ITS BEST

Electro-Sonic Laboratories, Inc.

Dept. M • 35-54 Thirty-sixth Street • Long Island City 6, N.Y.



panies, for every audience wherever he may be, for any music lover listening to hi-fi on records at home. Franz Rupp says to each, "Let's make music together."

Sara Given Rocky has achieved what is the goal of many writers; she free-lances from the serenity of her home in the Colorado mountains.

"SALUTE" LP'S

Continued from page 27

mercilessly throwing low-fi mud at Bird's memory while plundering his grave. Lunceford was a keen businessman himself and had an astute manager; Parker was merely a genius with no capacity for examining royalty statements. It is a fair bet that the pickings for his estate will be meager and that the current paragon of "Salute to Charlie Parker" LP's will be of little value to his widow and children.

When the inevitable recession in jazz record sales sets in, as predicted here last month, it is to be hoped that the tribute-salute-dedication LP will be the first casualty. It is pleasant to be able to hear Jimmie Lunceford (or pseudo-Lunceford) from 16 through 15,000 cycles, but it is also uncomfortable to know that there may be a few more vultures hovering over Birdland to see who will be the next subject for a "Salute to Joe Doakes in Hi-Fi." I would rather see Doakes stick around for awhile and pick up the cash for himself.

RECORD COLLECTING

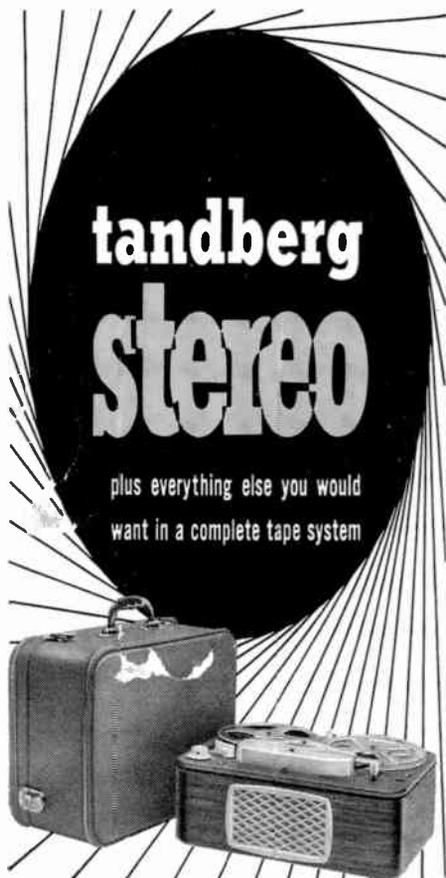
Continued from page 26

played *pizzicato* (except for the double bass which carries the bass line) and a solo oboe. Italian models may have influenced Handel's formal approach to his music, but his own stamp is already evident in this broad melody. In *Dafne's* second aria, both solo oboe and solo violin join the soprano. "Apollo e *Dafne*" is available in a fine performance by Margaret Ritchie and Bruce Boyce conducted by Anthony Lewis (Oiseau Lyre 50038). Music lovers who are attracted to both this period and to the combination of voice and instruments will do well to investigate other cantatas of this era.

Brahms: *Two Songs for Contralto with Viola Obbligato*: If, during the 19th Century, composers were overly preoccupied with music for voice and piano alone, they did, nevertheless, occasionally add an obbligato instrument to the combination. Brahms' use of the viola in these tender songs is a striking example of how a second instrument can be used to heighten a song's effectiveness and add to its message. In the first song, *Gestille Sehnsucht (Longing at Rest)*, the viola intensifies the yearning expressed in the text by its own poignant melodies which are different from those of the contralto. The play between voice and instrument is sufficiently rich and varied to give the feeling of chamber music; the viola is not a meaningless obbligato. The

Continued on page 59

Hi-Fi Music at Home



**tandberg  
stereo**

plus everything else you would  
want in a complete tape system

**the new  
dimension  
in sound...**

Designed for the highest of reproduction standards... Scandinavia Styled from fine grain mahogany.

**STEREO 3-Speed Tape Phonograph and Tape Recorder—Tandberg Model 3-Stereo**—for at home listening pleasure... or conveniently portable in luxury-styled luggage type carrying case for traveling enjoyment.

For the finest in sound reproduction, two extremely well-balanced power playback amplifiers are built-in with such efficiency of design that the distortion of each amplifier is under 1%. A specially manufactured in-line stereo head, unique in design and construction, provides a clarity of reproduction and a range of response heretofore unattainable.

The model 3-Stereo weighs 27 pounds, and is priced at \$369.50. Complete with microphone and carrying case.

The Tandberg stereo-trio including model 3-Stereo recorder/reproducer and two perfectly matched speaker systems. \$469.95



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

**RECORD COLLECTING**

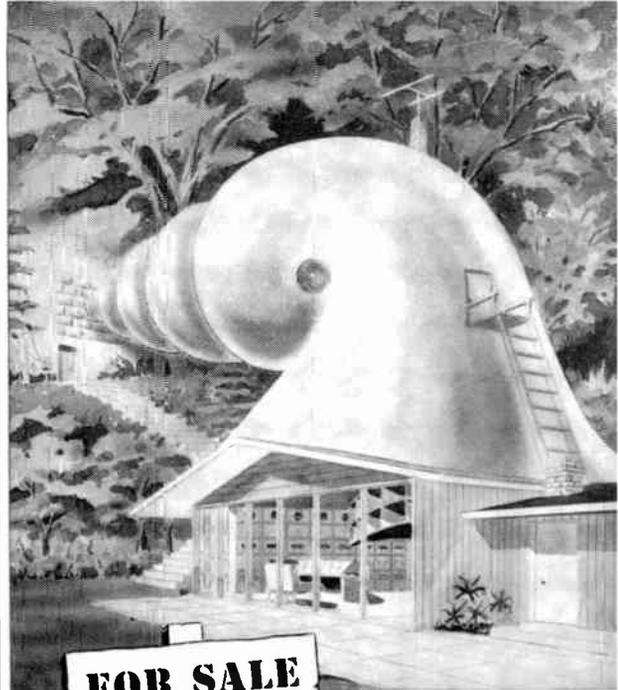
*Continued from page 58*

most impressive use of the viola, however, is found in the second song, *Geistliches Wiegenlied (Virgin's Cradle Song)*, in which the medieval German carol, *Joseph lieber, Joseph mein* is played by the viola as a counter melody to the one sung by the singer. In the hands of a composer less gifted than Brahms, such a device could easily have led to confusion and chaos. Here, however, both melodies complement one another with the greatest naturalness and ease. The recording made by the late Kathleen Ferrier with Max Gilbert viola, and Phyllis Spurr piano (London 5098) is a lovely reminder of this singer's great gifts. It is a pity that Brahms did not compose more music of this type.

**Ravel: Chansons Madécasses, for Voice, Flute, Cello, and Piano:** Ravel's settings of these three unrelated texts, adapted from poems of Madagascar by the 18th Century French poet Evariste de Parly are probably the most frequently performed of all 20th Century compositions for voice and instruments. The settings are languorous and heavy with atmosphere. The free declamatory vocal style requires deft and subtle handling if all the imagery and moods of these songs are to be captured. If they are, they have a compelling fascination. Those who associate the use of the flute and voice with Proch's *Air and Variations* should study the use of the combination in the second song of this set. It chronicles the reasons why the native should mistrust the white intruders. The first flute motive which is repeated in every measure of the first part of the song captures the mood of wistfulness and sadness of the situation, but as the song grows more rebellious so, too, does the flute. The songs are full of master strokes of instrumentation. Martial Singher was the first man to sing these songs. He reports that "Maurice Ravel, although grateful to the ladies who sang the *Madécasses* in the 20's and early 30's, told me once that he had been disappointed that no man had seen fit to sing them." They are still sung by ladies, despite the fact that the texts are undeniably the utterances of a man. Martial Singher has recorded his performance superbly (Concert Hall CHS 1124). Recently there were five other recorded versions, but the only one easily available at present, other than the Singher disc, is by Irma Kolassi (London LL-1425). She uses her warm mezzo to good effect.

**Vaughan Williams: On Wenlock Edge, for Tenor, Piano, and String Quartet:** A. E. Housman's texts have been used by many British composers. This cycle of six songs is based on poems from "A Shropshire Lad". Vaughan Williams, who is now considered the dean of

*Continued on page 60*



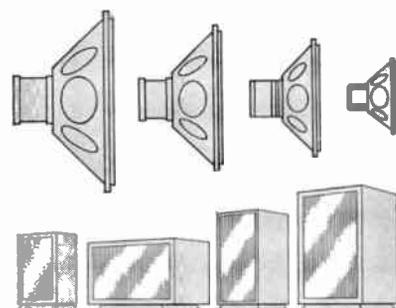
**FOR SALE**

Practically new ranch house with 200-foot, poured-concrete, spirally curled, exponential bass horn; 12-foot multicellular midrange horn (24 cells); large inventory of assorted dynamic and electrostatic tweeters; three 2,000-watt water-cooled amplifiers; infinite-attenuation electronic crossover networks; master control-mixer-preamplifier console; two 1,500-lb. belt-driven turntables suspended in mercury bath; vacuum-sealed record-positioning chamber with servo-controlled record lifters and nuclear-reactor record deionizer; foam-rubber basement for acoustical feedback isolation; also complete blueprints for construction of identical house for stereo.

Will sacrifice; or trade for NORELCO speaker, which owner of house has discovered to be ideal for delightful hi-fi listening without electronic anxiety neuroses or showdowns with the loan company. For detailed and convincing confirmation of latter viewpoint, write to North American Philips Co., Inc., High Fidelity Products Division, Dept. 3M5, 230 Duffy Avenue, Hicksville, Long Island, N. Y.



**NORELCO®**  
loudspeakers



a complete line of 5" to 12" high-fidelity speakers and acoustically engineered enclosures.

**Easy-to-Use = STEREO**

**by arkey**

AUDIO, TV & HI-FI EQUIPMENT

120 CEDAR STREET  
NEW YORK 6, N. Y.

FREE! At your dealer or write for complete catalogue of Stereo & Musical Records, Tapes & TV, Hi-Fi & Hi-Fi. Prices 5% higher west of Mississippi.

Arkey SA 25

Attached to your present power amp and presto—you've got the finest stereo system. Channel 1—25 watt amp freq. resp. 2 db @ 20 watts, 20-20,000 cycles; sens. tape @ 20 watts; 20-20,000 cycles; sens. tape for 25 watts. Controls: volume, bass, treble, lo and hi filters; equal for all labels plus NARTB tape head, Channel 2—same sensitivity. SAVE! Easy-to-build kit \$59.95

Arkey Stereo Dual Channel Control Center SPA 6

The dist. and any unit of its kind—Preceded by 100,000 units—has been the most popular amplifier for all stereo needs—present and future. A complete kit for building a stereo amplifier. Save! Easy-to-build kit \$39.95

Arkey Stereo AMPLIFIER AS 11

Here's an exceptional, self-powered AC, up to 100 watts, 20-20,000 cycle amplifier. Also suitable for simultaneous stereo and mono FM use. A complete kit for building a stereo amplifier. Save! Easy-to-build kit \$49.95

Arkey Stereo Dual Channel 55 Watt Amp SPA 55

This new dual channel 55 watt amplifier can be used for simultaneous stereo and mono FM use. A complete kit for building a stereo amplifier. Save! Easy-to-build kit \$54.95

OTHER MATCHING ARKAY STEREO UNITS...

**ONE Logical, Inexpensive Step to STEREO...**

## RECORD COLLECTING

Continued from page 59

British composers, occupied no such exalted position when he composed these songs in 1909. They were immediately successful, however, and admiration for them has been growing for the past half century. Two very important features make them outstanding. First, he has succeeded in easily and unselfconsciously translating English speech into melodic song as skillfully as French and German composers have treated their native languages. Many British and American composers have stumbled over this hurdle. Vaughan Williams has accomplished this without loss of either effectiveness or inventiveness. His handling of the instruments is the other notable achievement. It is very important in music of this kind that both voice and instruments be treated with full regard for their individual potentials and yet add up to a coherent and satisfying whole. *Bredon Hill* and *Is My Team Ploughing?* the two longest songs of this cycle, are miniature dramas of great and powerful effect. The melodic line is never awkward or unsingable and the instruments underline and point up the moods in their own most characteristic ways. This cycle can easily serve to silence those who claim that the 20th Century has produced no remarkable vocal music. Choice between the two recorded versions is difficult. Neither performance is ideal but both have solid virtues. The ideal would combine the voice quality of George Maran (London 5365) with the intensity of expression of Alexander Young (Westminster 18097). Both instrumental groups are satisfactory.

Respighi: *Il Tramonto*, *Poem for Quarter and Voice*: Shelley's poem "The Sunset" is here given a musical setting via a translation into Italian by Ascoli. Respighi's colorful portraits of the pines and the fountains of Rome appear frequently on symphony programs but his ability to work effectively with more intimate and economic forces is relatively unknown because his work in this *metier* is so infrequently performed. And, apart from a song or two, his vocal music is little known. This work goes far toward increasing our knowledge of both aspects of Respighi's art. His attraction to the French impressionistic school of composition and his attempt to translate it into purely Italian terms is one of the dominating characteristics of his music. He found a perfect subject in Shelley's poem. It is not so much a miniature drama as it is a character study of a woman whose spirit was broken and whose search for peace and rest were destroyed by the sudden death of her lover. It is a tragedy of mood and atmosphere which the strings capture and underline as neither piano nor full orchestra could. Respighi sets the text in a declamatory style which strikes a happy balance between recitative and aria. Sena Jurinac,

Continued on page 61

for Ultimate Fidelity

# SHERWOOD\*



Model S-1000 II—36 watt amplifier—\$109.50 net.

\*outstanding honors bestowed, unsolicited, by most recognized testing organizations.

Why will your records sound better with the new Sherwood 36-watt amplifier, though you seldom play them at levels exceeding 1½ watts? Because amplifier peaks in many musical passages demand 100 watt peak capability—and the new Sherwood S-1000 II delivers this instantaneous peak power while operating at 1½ watts!

S-1000 II front panel controls include 6-db presence-rise button; record, microphone and tape-play-back equalization; exclusive "center-set" loudness control, loudness compensation switch, scratch and rumble filters, phono level control, tape-monitor switch 6 inputs, output tube balance control and test switch on rear.

For complete specifications, write Dept. M-5

## SHERWOOD

Sherwood Electronic Laboratories, Inc.  
4300 N. Colifornia Ave., Chicago 18, Ill.

The "complete high fidelity home music center."



In New York hear "Accent on Sound" with Skip Washner, WBAI-FM, week nights, 9 P.M. In Los Angeles, KRHM-FM, 10 P.M.

## RECORD COLLECTING

Continued from page 60

who was unable to fulfill her Metropolitan contract this year and is still known to us only by her recordings, creates a touching portrait. The Barylli Quartet, which performs with her, is made up of first-desk men of the Vienna Philharmonic. Their performance is hauntingly beautiful (Westminster XWN 18597).

**Stravinsky: Three Shakespeare Songs, for Soprano, Flute, Clarinet, and Viola:** No discussion of vocal music with instruments would be complete without mention of Stravinsky's contributions to the literature. The *Shakespeare Songs* include *Musick to Heare*, *Full Fadom Five*, and *When Dasies Pied*. These were composed in 1953 and show the composer's use of the twelve-tone technic. The songs are severe, and could hardly be imagined for use within the framework of a stage presentation of the plays; they are decidedly concert pieces. A disc of Igor Stravinsky's chamber works from 1911 to 1954 for voice and instruments makes it easy for the listener to acquire and evaluate these compositions with one simple purchase (Columbia ML5107). The composer himself conducts the works. The other works included are *In Memoriam Dylan Thomas* (1954), *Four Russian Songs* (1915-1919), *Two Balmont Songs* (1911), *Three Japanese Lyrics* (1913) and *Three Souvenirs* (1913). It is a varied and rich recital. Some of the early songs were arranged for instruments and voice years after their composition. Some of them may appeal more than others, but there is much here to please the listener anxious to extend his familiarity with music of this type. Stravinsky is only one of the many modern composers writing songs with wind instruments but the combination still bears the stamp of novelty despite predecessors 200 years old.

**Villa-Lobos: Bachianas Brasileiras No. 5, for Soprano and Eight Celli:** Villa-Lobos has composed eight suites in memory of J. S. Bach in his own unique and unmistakable idiom — they breathe the atmosphere of his native Brazil much more strongly than that of 18th Century Germany. The irresistible attraction of the *Suite No. 5*, the only one which includes voice, has made it one of the best known compositions of the 20th Century. The recording made by Bidu Sayao has long been one of the best-selling records of serious music ever put on the market. However, her performance only includes the opening section, *Cantilena*. It begins with a long vocalise on "ah", continues with a Portuguese text which evokes the melancholy aspects of twilight by the sea and ends with an abbreviated repetition of the opening, this time hummed. The second part of the suite is an exuberant *Dansa* in the style of many Brazilian folk

Continued on page 62

May 1958

# Does STEREO DELEREO?

make you

Unless hearing your favorite composer in stereophonic sound releases a deliriously marvelous feeling within you . . . unless it conjures up vivid pictures in your mind's eye . . . unless it penetrates your "inner" being . . . then you are not getting the full impact of stereo!

To feel the gigantic realism of stereo, you must hear it on the finest equipment possible...for stereo *demands* the finest. Are your



stereo tapes played on the **Ferrograph** Tape Recorder, considered the world's best by many professionals? And the new stereo disc system\* demands the very highest quality

turntable available . . . the *Connoisseur*, of course . . . to breathe its music through

**VITAVOX DU120 Duplex Coaxial Loud-**



**speakers** for a smooth extended frequency response and broad even acoustic distribution. Yes, for the brilliance of stereo you *need* good equipment!

\*watch for announcement of Connoisseur stereo cartridge

**ERCONA CORPORATION** (Electronic Division)

551 Fifth Ave., Dept. 55, New York 17, N. Y.

In Canada, write Astral Electric Company Limited, 44 Danforth Road, Toronto 13.

## AUDIO LEAGUE REPORT

Back issues of the Audio League "Report" are still available at 50c each.

A complete index of the articles and equipment reports will be sent without charge if your request is accompanied by a stamped, addressed envelope.

You should have a complete file of the "Report," for you will find it invaluable for reference purposes.

Don't delay, for the supply of back issues is necessarily limited.

WRITE

**THE AUDIO LEAGUE**

P. O. Box 228, Greenwich, Conn.

AT LAST! A practical answer to your cost problem. The World's Largest Tape Recorder Outlet and Service Lab now brings you a money saving . . .

## STEREO EXCHANGE

We believe these benefits will astound and delight you:

**EXCHANGE \$50 WORTH OF STEREO TAPE FOR ONLY \$1.35 PER REEL**

Yes, you may even choose the spectacular new releases of Capitol, Mercury, RCA and over 30 companies. Yet you've given up nothing, since the stereo reels you send in exchange are the ones you no longer want.

**RENT STEREO TAPES FOR ONLY \$1.45 EACH**

Enjoy stereo a full month at only 5¢ per day. No longer must you buy in the dark. Now you may try them, enjoy them, without buying. And if you do purchase, the rental charge is cancelled.

**FREE! A TERRIFIC \$9.95 PARTY TAPE**

This special 1200' "sing-a-long" tape does something new and hilarious . . . lets you record your friends singing familiar party favorites and combines it with piano and organ accompaniment which you are hearing simultaneously from other track. Always the hit of the evening, and may be done over and over.

**FREE! 4 STEREO CATALOGS**

Gives full contents of every reel on the market quarterly.

**BUY STEREO TAPES, BLANK TAPE & ACCESSORIES AT BIG SAVINGS**

**HIGHER TRADE-IN ALLOWANCES**

Our huge service lab and 10 showrooms permit highest possible trade-in allowances. Enjoy the living presence now possible on such fine (stereo) units as BELL, PEN-TRON, TANDBERG, and

**AMPEX ONLY 10% DOWN 24 MONTHS TO PAY.**

MAIL THIS COUPON TODAY:

All of the above privileges for 1 full year for only \$6.95, (less than value of the fabulous 1200' party tape alone).

STEREO EXCHANGE, Dept. M-5  
344 Main St., Paterson, N. J.

Enclosed in check for \$6.95 for 1 year's membership. Send party tape, catalog, and details for exchange and rental of tapes.

Send further info re: stereo tape exchange and tape rentals.

Send literature and prices on stereo recorders.

NAME .....

ADDRESS .....

CITY ..... ZONE ..... STATE .....



**MADISON FIELDING**



Whatever the choice may be — tape, record, or good old fashioned AM/FM radio, straight or multiplexed — Madison Fielding is the design center of any stereo system. Complete control and amplifier facilities for both monaural and stereophonic sound are built into the perfectly matched Series 330 AM/FM Stereophonic Tuner and Series 320 40-watt Stereophonic Amplifier.

**Series 330 Tuner:**

Two complete ultra-sensitive tuners on one compact chassis for either AM or FM reception individually, or, with a turn of a switch, both signals can be made available simultaneously. Multiplexed output is provided for by use of one adapter.

**Series 320 40-watt Amplifier:**

In addition to individual controls for each channel, the unit features a Master Volume Control, which controls both levels simultaneously for stereo. When used monaurally, it will serve as a complete electronic crossover system to feed separate woofer and tweeter.

For further information, write to:

Madison Fielding Corp.  
5 Lorimer Street  
Brooklyn, New York



*The center of your stereo system.*

**RECORD COLLECTING**

*Continued from page 61*

songs. This love song is in stark contrast to the sensuousness of the first part. There are no listening problems in this music. Its appeal is immediate and its rewards linger over repeated hearings. Columbia has just re-released Sayao's performance as part of a recital containing many of her best recordings (Columbia ML-5231). The complete work is available on Cook 1062, a record devoted to works by Bach and compositions which could be labeled "homage à Bach" by Villa-Lobos and Stravinsky. Phyllis Curtin is the soprano soloist here and her clear, pliable voice fits the music just as admirably in its own way as Sayao's. Villa-Lobos himself called her performance "really definitive".

**Thomson: Stabat Mater, for Soprano and String Quartet:** Another striking example of the use of voice with string quartet is this setting of Max Jacob's French text composed by Virgil Thomson in 1932. The work is a short one but it succeeds admirably in capturing the sorrow of the Virgin Mary at the foot of the cross. The text consists of a brief dialogue between Mary, Jesus, St. John and an angel as they seek to comfort one another. The quartet establishes the mood at the beginning and maintains it as the participants speak in turn of their feelings. Jennie Tourel has recorded the work admirably with the new Music Quartet (Columbia 3ML-4491). This record was issued as part of Columbia's splendid Modern American Music Series.

**Britten: Serenade for Tenor, Horn and Strings, Op. 31:** At first thought, the combination of tenor and horn seems unwieldy, presumptuous, and even esoteric. However, not to investigate is to miss one of Britten's most sumptuous and amazing compositions. The prologue and epilogue are for solo horn unaccompanied. In between are six songs with texts by Cotton, Tennyson, Blake, Johnson, Keats, and an anonymous 15th Century poet. The horn accompanies the voice in all except Keat's *Sonnet* which is for tenor and strings alone. The demands on both tenor and horn player are enormous, for Britten has spared neither in his attempt to set these texts with full regard for their imagery and magic. This is virtuosity used solely for artistic ends, however, since tricks and gimmicks are completely absent in these nocturnal evocations. The services of both voice and horn are utilized wholly in Britten's effort to illuminate the meaning of his chosen texts. It is fortunate that the two musicians to whom this composition was dedicated, Peter Pears tenor, and the late Dennis Brain horn, recorded the work with the string section of the New Symphony Orchestra under Eugene Goossens. Both performed imaginatively, painstakingly, and skillfully (London 5358).

**press comment**

*Atlantic (John M. Conly)*

"The AR-1W woofer gives the clearest bass response I ever have heard."

**AUDIO (Edward Tarnall Canby)**

"... the highs impressed me immediately as very lovely, smooth, unprepossessing, musical (for music) and unusually natural. No super-hi-fi screech and scratch... As to the lows... I was no end impressed, from the first time I ran my finger over a pickup stylus and got that hearty, wall-shaking thump that betokens real bottom bass to the time when I had played records and tapes on the speaker for some months on end."

*The Audio League Report\**

"Speaker systems that will develop much less than 30% distortion at 30 cycles are few and far between. Our standard reference speaker system, the best we've ever seen, has about 5% distortion at 30 cycles."

\*Vol. 1 No. 9, Oct., '55. Authorized quotation #30. For the complete technical and subjective report on the AR-1 consult Vol. 1 No. 11, The Audio League Report, Pleasantville, N. Y.

†The AR-1W

*The Saturday Review (R. S. Lanier)*

"... goes down into the low, low bass with exemplary smoothness and low distortion. It is startling to hear the fundamentals of low organ notes come out, pure and undefiled, from a box that is two feet long and about a foot high."

**High Fidelity (Roy Allison)**

"... a woofer that works exceptionally well because of its small size, not in spite of it... I have heard clean extended bass like this only from enclosures that were at least six or seven times its size"



Prices for Acoustic Research speaker systems, complete with cabinets, (AR-1 and AR-2) are \$89.00 to \$194.00. Literature is available from your local sound equipment dealer, or on request from:

Dept. M

**ACOUSTIC RESEARCH, INC.**  
24 Thorndike St., Cambridge 41, Mass.

*Hi-Fi Music at Home*

BUY HI-FI HERE



FM/Q

Antenna systems

High gain Broad-band Yagi for max. sensitivity to both 72 and 100 ohm tuner input. Designed for fringe FM. APPARATUS DEVELOPMENT CO. FM Dept. Wethersfield 9, Connecticut

**AUDIO EXCHANGE**

The Trading Organization in the HI-FI FIELD

Write department M-1 for free catalog of used, fully-guaranteed equipment  
159-19 Hillside Ave., Jamaica 32, N. Y. AXtel 7-7577  
367 Mamoroneck Ave., White Plains WH 8-3380  
836 Flatbush Ave., Brooklyn, N. Y. BU 2-5300

**- audion -**

HI-FI COMPONENTS. CUSTOM INSTALLATIONS

Compare us with others! QUALITY • PRICE

Send for FREE CATALOG

64-62 Booth St., Rego Park 74, N. Y. TW-6-2356

**STEREOPHONIC TAPES**

Now in stock (all of them) send 30 cents for tape catalog. Latest stereo equipment lists and details of stereo conversion kits. See our ad on next page.

**BOSLEY HI FI AND STEREOPHONIC**

316 N. Glendale Ave., Glendale 6, Calif.

**HOLLYWOOD ELECTRONICS**

"HI-FI COMPONENTS EXCLUSIVELY"

Since 1944

7460 MELROSE AVE., L.A. 46. WEB 3-8208

**LISTEN TO POLICE & FIRE CALLS**

Complete Registry of police and fire radio stations in the U. S., showing location, call letters, and frequencies—Postpaid, \$4.00.

**COMMUNICATION ENGINEERING BOOKS**

Radio Hill, Monterey, Massachusetts



**A LITTLE DEPRESSED? DON'T BE . . .**

We know something about keeping mail-order Hi-Fiers happy  
Write us your Hi-Fi needs  
Phone: EVergreen 4-6071

**KEY ELECTRONICS CO.**  
120 LIBERTY ST., N. Y. 6, N. Y.



**CHAIRSIDE RECORD BROWSER**  
Open front, invites leafing through collection from a favorite easy chair. Now you can 'file' your records alphabetically! Holds 125 long-playing albums. Sturdy black wrought iron; 19" H, 14" W, 21" D. Please remit \$8.95; nominal express chg. collected on delivery. **\$8.95**

© LESLIE CREATIONS  
Dept. 6, Lafayette Hill, Penna.



**FM RECEIVING ANTENNAS**

Standard and Special Designs

**WHOLESALE SUPPLY CO.**  
Lunenburg, Mass.

**HI-FI DEMONSTRATIONS**

Continued from page 50

man to take a prospective customer and his wife for a demonstration ride at 120 miles an hour on a busy highway.

We buy automobiles for transportation and for the pleasure of going places—not to out-speed other cars. You have probably noticed that the manufacturers are currently emphasizing comfort rather than horsepower.

The majority of the people who are becoming interested in buying equipment for records, tape, and FM radio seek the enjoyment of fine music. They find no virtue in volume of sound that rattles the windows.

The truth is that performance is at its very worst at top volume, not only because distortion increases as the output is cranked up, but because critical listeners, if they are willing to listen at all, can hear defects in the reproduction much more clearly at high levels. That is why recording engineers generally turn their monitor speakers away up during recording and playback sessions. It makes anything that isn't good sound so much worse.

We must start to understand the difference in the effects of volume of sound and quality of reproduction on people who are interested in hi-fi equipment because they enjoy music. People who listen to demonstrations in public places naturally relate what they hear to what they want to have in their homes. That is what they are thinking about when they say: "I don't like hi-fi. It's too loud for me."

Perhaps the best approach to this serious and important problem of hi-fi public relations (it amounts to just that) is to remember that only a few audio nuts want those ear-splitting sounds from their loudspeakers, just as 120-mph. speeds are for the small number engaged in auto racing. Everyone else thinks of records, tape, and FM radio as sources of music that can be enjoyed at home!

So when we give demonstrations to show off the performance of hi-fi equipment, let's impress people with the beauty of the music, and the authentic quality of reproduction. Let's guard against making them say: "Well, if that's hi-fi, I don't want it in my home."

**CHANGE OF ADDRESS**

In recent months, there has been a considerable increase in the number of people who are moving to new homes. But relatively few people let us know in advance of their changes of address. We only find it out after magazines are mailed, and we receive their new addresses from the Post Office. This means that these subscribers miss their copies because *magazines are not forwarded*. They are destroyed by the Post Office.

for everything in **hi-fi**  
GET THE MONEY-SAVING 1958  
**ALLIED CATALOG**



featuring the world's largest stocks of systems & components

**free!**  
SEND FOR IT

Here's your complete money-saving guide to Hi-Fi. Own a fine custom quality Hi-Fi music system at no more than the cost of an ordinary phonograph. See dozens of ALLIED-Recommended complete Hi-Fi systems, plus the world's largest selection of components (amplifiers, tuners, changers, speakers, enclosures and accessories). Want to build-your-own?—see our exclusive Hi-Fi KNIGHT-KITS. For everything in Hi-Fi—for everything in Electronics, get the FREE 1958 ALLIED Catalog.

**ALLIED RADIO** AMERICA'S HI-FI CENTER

ALLIED RADIO CORP. Dept. 76-E8  
100 N. Western Ave., Chicago 80, Ill.

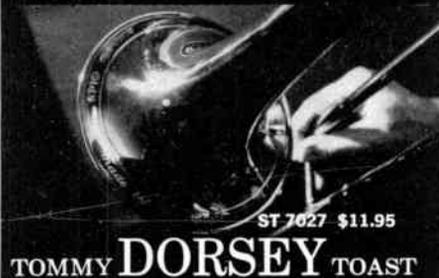
Send FREE 1958 ALLIED Catalog

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ Zone \_\_\_\_\_ State \_\_\_\_\_

**BEST SELLERS**



ST 7027 \$11.95

**TOMMY DORSEY TOAST**

**GLENN MILLER SOUND**

ST 7026 \$11.95

PLAYED BY MEMBERS OF THEIR ORIGINAL BANDS IN

**STEREO**

Ask your dealer for the finest quality stereo tape recording

**megatape**  
**HOLLYWOOD**

## BUY, SELL, or SWAP

The opportunity to buy, sell, or swap items of equipment or records through the use of this department is made available as a service to readers of HI-FI MUSIC without charge. Copy should be limited to 35 words.

Items which appear to be from dealers will be rejected.

Receipt of items will not be acknowledged unless an addressed postcard is enclosed.

**SELL:** ESL C-60 cartridge, diamond 1-mil, used about four months. Excellent condition \$24. P. Coppi, 2022 East 26th St., Brooklyn 29, N. Y. SH 3-4774.

**BUY:** TP1 with Lowther PM3 speaker, Grado cartridge (new) with Grado arm, Karg tuner, Components 4-speed turntable, Leak 50-watt plus amplifier and varislope preamplifier. Greenburgh, 112 Belmont Ave., Long Beach, N. Y. GE 2-8880.

**BUY:** Ampex, Telectro, Magnecorder, or Berlant tape deck. Pay to \$125. David Gomberg, 1630 Arch Street, Berkeley 9, Calif.

**SELL:** Heath W5M amplifier, assembled and checked out but never used \$60. Audak KT-12 arm, assembled but not used \$7.50. A. Sheppard, 4246 Monterey, Detroit, Michigan.

**SELL:** Heathkit WA-P2 preamp, practically new, completely assembled, wired, tested, perfect condition. Also, almost new Eric \$49 value FM tuner with AFC. Either one for best offer over \$25. Larry Rabinowitz, 5010 N. Figueroa, Los Angeles 42, Calif. CL 7-9830.

**SELL:** Will take best offer for complete set of High Fidelity Nos. 1-63. Also complete set Hi-Fi Music at Home Nos. 1-26. Edwin Levy, 1205 E. Cary St., Richmond 19, Va.

**SELL:** Altec Lansing A-7 speaker system enclosed in blond formica cabinet. Like new, \$225. Harold Robbins, 1300 Midland Ave., Yonkers, N. Y. Beverly 7-8019.

**SWAP:** Brand new Wharfedale super-8/FS/AL speaker; played two hours. Goodmans Axiom-100 12-in., little used. Swap Wharfedale for 4401 or similar tweeter or both speakers for University or similar coaxial. Also consider amplifier for stereo application. Leon Brassard, 176 Rue Saint-Charles, Jonquiere, P.Q., Canada.

**SELL:** Hartley speaker \$29.50 (regular \$65); Bozak B-200X dual tweeters \$16 (regular \$31); Electro-Sonic concert LP cartridge \$18 (regular \$36); Goldring turnover cartridge diamond LP stylus \$12 (regular \$25); Rek-O-Kut T-12 turntable \$39 (regular \$84.50). All guaranteed like new. R. Balzer, 435 East 74th St., New York 21, N. Y.

**SELL:** 78-rpm records, opera, symphony, vocal instrumental. Several hundred discs by principal artists, none played more than twice. Inventory on request. Also somewhat worn 78 pop and jazz. J. D. Schick, 100 Memorial Drive, Cambridge 42, Mass.

**BUY:** Good used FM booster, and encyclopedia Britannica. B. Bornemisza, 1832 W. Michigan St., Saginaw, Michigan.

**SELL:** Clarkstan transcription arm, model 212, \$14. G.E. cartridges: RPX-040 sapphire for 78-rpm, \$2.50; RPX-063 diamond microgroove, \$9. All in good condition. Shipping extra. H. Ernest, 704a Bloomfield Ave., Montreal 8, Canada.

**SELL:** Electro-Voice SP128 speaker installed in double shelf model RJ enclosure, \$40. James Yount, 318 W. 14th Street, New York 14, N. Y.

**SELL:** Sherwood S-2000 AM-FM tuner and Sherwood S-1000II 36-watt amplifier \$200. Also Viking FF75-RS stereo playback, monaural record tape deck RP61 record and playback amplifier in portable case \$125. All equipment only 4 months old. Arthur L. Shafer, 1677 St. Johns Place, Brooklyn 33.

**BUY:** Klipschorn mid-range horn model K-5-J with or without driver. Also Acrosound TO-300 output transformer. R. D. Dickson, 8375 Zeta St., La Mesa, Calif.

**SELL:** Equipment used 4 months then factory serviced December '57: Marantz consolette, mahogany cabinet \$120; D&R 12B hysteresis 4-speed turntable, mahogany base drilled for 280A, 281A arms \$95; ESL C-1 cartridge, 201-F transformer \$35; Fairchild 280A arm \$27, 281A arm \$28; Scott 240 amplifier \$85; AR-1, mahogany cabinet \$130. Any or all plus transportation, excellent condition. Thomas B. Looney, 234 No. Evergreen, Memphis 12, Tenn. Broadway 8-4584.

**SELL:** Paper tapes on one hour radio programs on LUX Radio Theatre and United States Steel, if interested write me, around 40 boxes of Scotch paper tapes in all 80 programs \$50.00. Charles Berwick, 872 Macon Street, Brooklyn 33, N. Y.

**SELL:** Gott bookshelf-size speaker system. Jensen 8-in. woofer, 3-in. tweeter, and crossover \$25. Michael Munk, 1505 S.E. Lambert, Portland 2, Oregon.

**SELL or SWAP:** Aristocrat III, perfect, \$150. (Must change to smaller room with no available corner.) Also E-V 108 system \$60. RJ enclosure F-12 with special walnut finish \$30. No long-distance delivery. Want AR-1, AR-2, Janszen 1-30. Howard H. Volan, M.D., Medical Arts Building, Syracuse 2, N. Y.

**SELL:** Brociner 30C preamp and Dynaco 50-watt amplifier \$100; Heath FM-3A tuner, factory aligned \$40; Wharfedale super 12 \$55; Jensen 120 duax \$20; Heath electronic crossover wired and tested \$25; Stephens 103-LX \$60. All in excellent condition. John Young, 462 Prospect Place, Brooklyn 38, N. Y. MA 2-1017.

**SELL:** Midwest late model KD16, 5 band AM-FM radio chassis with 12-in. speaker. World wide reception, \$45 (cost \$129). Also Pentron champion stereo tape recorder with tapes, practically new, \$95 (list \$259). V. Cossan, 297 Main St., Keansburg, N. J.

**SELL:** Ampex A-692P recorder, two Ampex A-122P amplifier-speaker, Altec microphone 660B, four months old \$700. 1 G.E. AI-400 speaker and AI-406M enclosure \$65, like new. George Heidelberg, 31 Northwood Ave., Demarest, N. J.

**BUY:** Old 78's by B. Gigli. Please send list to: Samuel Wudowsky, 515 Alabama Ave., Brooklyn 7, N. Y.

**BUY:** REL Precedent FM tuner. Please state age, condition, and price. All letters answered. A. E. Van Hise, 239 W. 10th St., New York 14, N. Y.

**SELL:** ESL professional series arm and cartridge with extra cartridge for 78's and transformer. Cartridges very recently checked by ESL and diamonds replaced. Best offer over \$75.00. David Babin, 1466 Park Haven, Cleveland 7, Ohio.

**SELL:** Haydn Society records, out of print, one of a kind. The late Beethoven Quartets and Grosse Fugue, perfect condition, boxed, (HSQ-P Vegh Quartet. \$15 postpaid.) Also singles mostly Bach and Mozart at \$3 each. Albert Sadler, 1609 Los Altos Rd., San Diego 9, Calif.

**SELL:** Audak 16-in. studio arm, Audak D16 pickup, 2 perfect diamond styli, excellent condition, \$30. Leslie L. Clark, 509 Orange St., New Haven, Conn.

**SELL:** Very heavy 18 cu. ft. infinite baffle enclosure. Braced panels 2 to 2 1/2-ins. thick. Will adapt it to mount buyer's speaker. \$135 FOB. W. E. Hooks, 1511 Jackson St., Durham, N. C.

**SELL:** Back issues of Hi-Fi Music at Home. 1954, 1955 all; 1956 March-April through November-December; 1957 all including Yearbook. Also Audio, Audio-craft, High Fidelity, Radio Electronics, Radio & TV News, Popular Electronics. Meyer Green, 7022 So. Shore Drive, Apt. 214, Chicago 49, Ill.

**SELL:** Pentron tape-recorder model HF400, 2-speed, 3 speakers, inputs: mike, radio; outputs: ext. amplifier, ext. speaker. Original price \$249.50, sell for \$125.00. F. G. Patton, 92 Pinehurst Ave., New York 33, N. Y.

**SELL or SWAP:** Electro-voice Patrician IV speaker system \$425, custom made, perfect condition, extra heavy plywood, sandloaded front panel, for Acoustic Research AR-1, Wharfedale, or any smaller speaker. J. Hutchens M.D., Whitehall, Wisc.

**BUY:** Cash for used Ampex 400A or 401A single-case portable. State approximate hours and condition. Peter J. Helffrich, R.D. #1, Wescoesville, Penna.

**BUY:** Jim Lansing Hartsfield speaker system or enclosure alone. Also interested in Jim Lansing 150 or 150-4C woofer. Robert E. Clay, Gen. Del., Shrub Oak, N. Y. LA 8-9411.

**SELL:** Scott type 112 dynural preamp, dynamic noise suppressor. A-1 condition, little used. \$25.00 plus shipping. Frank Damico, 86-75 Midland Pky., Jamaica 32, N. Y.

**SELL:** Heath 12-watt EA-2 amplifier and Garrard RC121 for cash or trade. Both in excellent condition. James Cohen, 1054 President Street, Brooklyn 25, N. Y.

**BUY:** Copy of Victor set M-420, Mozart Piano Concerto in D minor, No. 20. Played and conducted by Bruno Walter. Either 78 or album in LP. Not sure of LP number. Quote condition and price. Thomas Curtin, 115-95 221 St., Cambria Heights 11, N. Y.

**SELL:** Brand new in original carton, Collaro RC-456 4-speed record changer with automatic 45-rpm spindle plus five plug-in shells. Guaranteed new. Walt Bartell, 5536 Wilson Ave., Chicago 30, Ill.

**SWAP:** Electro-Voice Regency enclosure, blond, in excellent condition, for Jim Lansing C40 enclosure, blond, in excellent condition or will buy. Larry Golkin, MU5-6161 8-6 or Mr. L. Golkin, 50 Westminster Road, Brooklyn 18, N. Y.

**SELL:** British Chapman FM-AM short wave tuner. Short waves plus FM. Excellent quality on AM with variable selectivity. Radio frequency stage on all bands. New condition. \$85.00. Gerald Little, 1000 S. 26th St., Arlington 2, Va.

**SELL:** Shure model 55S professional mike on Atlas floor stand with baby boom \$50. Simpson 4 1/2-in. illuminated VU DB meter \$20. Both items never used and in original cartons. Mr. Gene Levine, 54 West 174th St., Bronx 53, N. Y.

**SELL:** Granco T160 FM tuner \$30; Rek-O-Kut L-37 turntable on base with 120 arm and G.E. RPX-041A cartridge, completely assembled and ready to use \$100; Revere T1100 recorder \$125; Revere TF902 foot control for T1100 recorder \$10. L. Grotzky, 230 South St., Philadelphia 47, Pa. MA 7-4380.

**SELL or SWAP:** SP 120 Hammarlund all-wave receiver, 5 bands 15-560 meters, heavy duty Jensen speaker. Separate power supply. Recently factory checked. Walnut cabinet. Interested good tape recorder, deck, speaker system. Charles Lieberman, 65 Fort Washington Avenue, New York 32, N. Y. WA 8-3088.

**SELL:** Garrard RC-98 crown II 4-speed changer, GE diamond pickup, blond base. Used 5 hours, mint condition, \$50.00. DeJur (Grundig) tape deck, model TMB820. 1 year old. Excellent condition, factory inspected. Used, not abused, \$160. J. Bolton 11 West Halley Lane, Central Islip, N. Y.

# INDEX of ADVERTISERS

Key No.	Page
1 Acoustic Research, Inc.....	62
2 Allied Radio Corp.....	63
3 Altec Lansing Corp.....	1
4 Ampex Audio, Inc.....	56
5 Apparatus Development Co.....	63
6 Arkay.....	60
7 Audio Exchange.....	63
8 Audio Fidelity, Inc.....	14
Audio League.....	61
9 Audion.....	63
10 Bogen Co., David. Inside Back Cover	
11 Bosley Hi-Fi.....	63
12 Bozak Speakers.....	16
13 British Industries.....	2
14 Columbia Records, Inc.....	5
15 Decca Records.....	7
16 EICO.....	Inside Front Cover
17 Electro Sonic Laboratories.....	58
18 Ercena Corp.....	61
19 Gernard.....	2
19 General Electric Co.....	6
20 Gray Research & Dev. Corp.....	50
21 Heath Company.. 51, 52, 53, 54, 55	
Hi-Fi Music Magazine.....	9
22 Hi-Fi Records.....	11
23 Hollywood Electronics.....	63
24 Key Electronics.....	63
25 Kilpsch Associates.....	8
26 Lansing Sound, Inc., J. B.....	57
27 Leslie Creations.....	63
28 Livingston Audio Products.....	12
29 Madison-Fielding.....	62
30 Magnetic Recording Co.....	61
31 McIntosh Laboratory, Inc.	Back Cover
32 Neshaminy Electric Co.....	58
33 North American Phillips Co.....	59
34 Omega Tapes.....	63
35 Pickering & Co., Inc.....	18
36 Pilot Radio Corp.....	8
37 Scott, Inc., H. H.....	13
38 Sherwood Electronics.....	60
33 Stereophonic Music Society.....	4
30 Stereo Tape Exchange.....	61
40 Stromberg-Carlson.....	10
41 Tandberg.....	59
42 University Loudspeakers.....	15
43 Wholesale Supply Co.....	63

## Literature Available on NEW PRODUCTS

To obtain literature or catalogs on the products described here, circle the corresponding letters on the Literature Request Card at the right, below.

### Electro-Voice Catalogs

Catalog 118, "How to Choose Hi-Fi Speakers and Components" is now available. This catalog contains detailed information on building-block kits of E-V loudspeakers used to improve an existing hi-fi speaker system. It supplements catalog 117, "Guide to Hi-Fi Loudspeakers," which will also be sent to readers. *Circle letter A.*

### Wollensak Stereo Tape Machine

This tape recorder for stereo tape playback and monaural recording is especially compact and light. It includes a preamplifier for stereo playback so that it can be used with any TV set or radio which has a phono jack as a temporary stereo system. The machine includes a 10 watt amplifier for playing tapes through its own speaker. *Circle letter B.*

### University Loudspeakers

A large, attractive brochure details the complete line of University hi-fi loudspeakers, enclosures, and speaker systems. Dimensions of all cabinets are given, along with technical specifications, pictures, and general descriptions. *Circle letter C.*

### Sargent-Rayment Stereo Amplifier

The model SR 17-17 stereo amplifier includes two complete preamplifiers, a control center and power amplifiers on one chassis. Each power amplifier is rated at 17 watts output. Included are equalized inputs for stereo tape playback, channel reversing switch, and various other facilities. *Circle letter D.*

### Components Corp. Turntable

This two-speed turntable is available in either the 33- and 78-rpm. model, or the 33- and 45-rpm. model. It uses the belt drive developed by Components for their professional turntable. *Circle letter E.*

### Stephens Bass-Plane Enclosures

Stephens Tru-Sonic now has literature describing their Bass-Plane series of speaker enclosures. These cabinets are said to be designed around new principles of acoustic engineering. Also described are the company's Free Cone loudspeaker units. *Circle letter F.*

### Fairchild Stereo Cartridge

Among the first production models of stereo cartridges available for use by hi-fi enthusiasts is the Fairchild model XP-4. This cartridge is designed to work with the Westrex 45-45 stereo disc recording system. *Circle letter G.*

## SUBSCRIPTION ORDER CARD

### HI-FI MUSIC MAGAZINE

105 E. 35th Street at Park Avenue, New York 16

Please enter my subscription to start with the next issue, at the Economy Rate of:

\$15.00 for 3 years (30 regular 50¢ issues, plus 3 big \$2.00 yearbook issues) **SAVE \$6.00**

\$6.00 for 1 year (10 regular 50¢ issues, plus 1 big \$2.00 yearbook issue) **SAVE \$1.00**

My remittance is enclosed  New subscription

Will pay on receipt of bill  Renewal

Add \$1.00 per year outside U. S., possessions, or Canada

NAME.....

STREET.....

CITY & ZONE.....

STATE.....

### IMPORTANT:

If you have a Zone Number, show it here. It will speed delivery of your copies.

MAY 1958

## How to Use the

## LITERATURE REQUEST CARD

**ADVERTISED PRODUCTS:** For literature on products advertised in this issue, get the Key Number of each company from the Advertisers Index at the left of this page. Circle the corresponding numbers on the card below. When we receive the card, we will request the companies to send you the literature you want.

**NEW PRODUCTS:** For literature on new products described in this section, circle the corresponding letters on the card below.

**PRODUCTS MENTIONED IN ARTICLES:** To get literature on products mentioned in articles or in any of the special departments of this issue, give the name of the product and the page number at the bottom of the card below.

## LITERATURE REQUEST CARD

**ADVERTISED PRODUCTS:** Please have literature sent to me by the following advertisers in this issue of HI-FI MUSIC Magazine:

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80

**NEW PRODUCTS:** Please have literature sent to me on the following items described in this section

A	B	C	D	E	F	G	H
K	L	M	N	O	P	Q	R
S	T	U	V	W	X	Y	Z

### PRODUCTS MENTIONED IN ARTICLES

Product.....Page.....

Product.....Page.....

Product.....Page.....

Product.....Page.....

Name.....

Address.....

.....

.....

I am a

Beginner in hi-fi  Advanced enthusiast

Dealer  .....

MAY 1958



**BUSINESS REPLY CARD**  
FIRST CLASS PERMIT NO. 4609, SEC. 349, P. L. & R., NEW YORK, N. Y.

**HI-FI MUSIC MAGAZINE**  
105 E. 35th St. at Park Ave.  
New York 16, N. Y.



**SUBSCRIPTION  
ORDER CARD**

**LITERATURE  
REQUEST CARD**



**BUSINESS REPLY CARD**  
FIRST CLASS PERMIT NO. 4609, SEC. 349, P. L. & R., NEW YORK, N. Y.

**HI-FI MUSIC MAGAZINE**  
105 E. 35th St. at Park Ave.  
New York 16, N. Y.



### Bakers 12-Inch Loudspeaker

A 12-inch loudspeaker with high flux density and very low rated cone resonance is the Bakers Ultra 12 loudspeaker. It is being distributed in this Country exclusively by Bradford Audio Corporation. *Circle letter H.*

### Sonotone Coaxial Speaker

This is a low-cost loudspeaker in which the woofer section is a 12 in. cone, and the tweeter is a small, elliptical cone designed for more even dispersion of the high notes. The system includes a dividing network, and features high flux-density magnetic structures on both speakers. *Circle letter K.*

### Scott FM Tuner 311-C

Newest version of the famed Scott 311 FM tuner, the 311-C features a wide-band design which increases selectivity while reducing co-channel and adjacent channel interference. Drift is rated negligible and rejection of spurious signals high. The tuner includes a cathode follower low-impedance output, and separate output for off-the-air tape recording. *Circle letter L.*

### Acoustic Research Brochure

Acoustic Research, Inc., manufacturer of the AR-1 and AR-2 speaker systems, has prepared a four-page booklet on the AR-2. The brochure includes a brief explanation of the patented acoustic suspension design, harmonic distortion, and frequency response curves. The AR-2 is a lower cost speaker than the AR-1, with slightly higher low-frequency cutoff. It incorporates a level control for the tweeter included in the cabinet as an integral part of the AR system. *Circle letter M.*

### G.E. 20-Watt Amplifier

Model PA-20 amplifier is a complete control center and power amplifier in an attractive cabinet suitable for bookshelf or end-table use. It has separate volume and loudness compensation controls, and a sharp cut-off rumble filter, in addition to the customary tone controls and four phonograph equalization settings. *Circle letter N.*

### Klipsch "Heresy"

The newest member of the Klipsch line of corner loudspeakers is a non-corner design. The model H loudspeaker is a comparatively small unit with restricted low-frequency response, designed especially for use in the second or third channels of a stereophonic system. Details on the model H are supplied along with information on obtaining 3-channel stereo from 2-track disc or tape recordings. *Circle letter O.*

### Fisher Power Amplifier

Model 100 is a compact 30-watt power amplifier which includes the Fisher Z-matic damping factor control, an impedance-matching switch for use with 4, 8, or 16-ohm loudspeakers, and an input level control. *Circle letter P.*

### KLH Loudspeaker System

The KLH model Six is a two-way speaker system enclosed in a bookshelf cabinet. Incorporating the acoustic suspension mechanism principle, the woofer is a 12-inch cone, intended to handle up to 1,200 cycles. The cone tweeter takes over at 1,200 cycles. *Circle letter Q.*

### Knight Tuner-Amplifier

This tuner-amplifier on one chassis requires only the addition of a loudspeaker for FM-AM radio reception, and a record changer or turntable to make a complete radio-phono installation. The amplifier section of the KN-315 includes rumble and scratch filters and is rated at 15 watts output. *Circle letter R.*

### Altec Buxflex Loudspeakers

The new speakers developed by Altec-Lansing Corporation utilize mechanical crossover from the woofer section to the high-frequency cone at the center. The rated frequency response of these speakers when they are used in specified baffles is guaranteed by the manufacturer. *Circle letter S.*

### Eico Kits and Wired Units

A 16-page catalog pictures and describes the complete EICO line of tuners, amplifiers, and loudspeakers. It also includes the company's electronic test instruments. All the units are available in both kit form and as wired, ready-to-use units. *Circle letter T.*

### Integrand Amplifier-Speaker System

A 6-page brochure called "The Integrand Story" describes that company's integrated amplifier-speaker system. It uses three separate amplifiers and loudspeaker driving units for the three frequency ranges: low, middle and high. Any preamplifier control unit, FM tuner or other signal source may be used to drive the Integrand system. *Circle letter U.*

### Robins Phono & Tape Accessories

Makers of the Gibson Girl tape splicers and many other devices for use with tape and LP records, Robbins Industries offers a booklet describing those products, as well as their plastic turntable and record-changer dust covers, LP record files, and tape threader. *Circle letter V.*

### Norelco Speaker Catalog

Their illustrated booklet describes the various loudspeakers and speaker enclosures. It also shows details of the Norelco microphone, tape recorder, and new magnetic cartridge. *Circle letter W.*

### Heath Stereo Equipment

Latest catalog includes stereo tape deck, completely assembled, stereo preamp kit, handsome knocked-down cabinets for radio, tape machine, and record player, matching stereo speaker enclosures, and new amplifiers, in addition to kits for many other components. *Circle letter X.*

# NOW

# BOGEN MEANS STEREO REALISM



Model DB212 Stereo Control Center and Dual Amplifier

THIS is the new Bogen Stereophonic Dual Amplifier-Preamplifier. With this single unit you can precisely control all stereo sources (tapes, FM-AM radio broadcasts and the exciting new stereo discs!) and feed them through the self-contained dual 12-watt amplifiers to your stereo speakers. When you play monaural program sources, you have a total of 24 watts of power available for your speakers. Ask your Bogen dealer to tell you about the exclusive "Speaker Phasing Switch" which eliminates the "hole-in-the-middle" effect that sometimes occurs in stereo. See and hear the DB212 today... stereo hi fi by Bogen, the world's most experienced high fidelity manufacturer. Chassis price: \$115.00. Pearl grey enclosure: \$7.50.

**DB212:** Output Power: 24 watts (two 12-watt channels). Peak Power: 48 watts. Harmonic Distortion: 0.5% at rated output; less than 1% at 28 watts. Frequency Response: 20 to 20,000 cycles,  $\pm 1$ db. Sensitivity: tuner, aux, high tape - 0.25 v; mag, low tape - 8 mv. Noise and Hum (referred to rated output): tuner, aux, high tape - 80db; mag, low tape - 55db. Output Impedances: 4, 8 and 16 ohms. Tone Controls: Bass (60 c) -  $\pm 10$ db. Treble (10 kc) -  $\pm 8$ db. Equalization: Tape (Std NARTB), Phono (RIAA). Controls: Selector (four positions: tape, phono, radio, aux). Function (Monaural: Channel 1, Channel 2, Channels 1 & 2; Stereophonic: normal, inverted). Volume. Bass. Treble. Hi Filter (flat, 4 kc). Lo Filter (flat, 100 c). Speaker Phasing (2 positions). Power (on-off).

David Bogen Co., Paramus, N. J. • A Division of The Siegler Corporation

## Bogen

HIGH FIDELITY

WorldRadioHistory.com because it sounds better

HIGH FIDELITY COMPONENTS. PUBLIC ADDRESS EQUIPMENT AND INTERCOMMUNICATION SYSTEM

*the*

# McIntosh Tuner

Now — at last — a high quality tuner, and from McIntosh! Two long, arduous years of development and experimentation has resulted in several outstanding and new features to bring you unprecedented performance. Drift free without A. F. C. yet incorporates, the strongest, and only distortion free, A. F. C. (automatic tuning) — no alignment problems, mechanically captive transformers prevent mis-alignment from vibration, transportation, etc.; (for the first time, tube changes do not require re-alignment — Ultra-Sonic muting (absolute quiet between stations) — flat, distortion free, frequency response (lowest distortion for equivalent signal input) and many more.

*Send for yours now...*

McIntosh Laboratories, Inc.  
2 Chambers Street, Dept. HFM-58  
Binghamton, New York

**Please send me a full color photograph of the  
McIntosh MR-55 A.M.-F.M. tuner . . . The tuner that  
"keeps the promise of F.M."**

NAME .....

ADDRESS .....

CITY ..... ZONE .....

STATE .....