# High Fidelity

THE MAGAZINE FOR MUSIC LISTENERS

in this issue

Filly Thousand Sides Ago: he first days of LP

> The Pangs of Progress

BY ROLAND GELATT



Debussy on Microgroove a discography by Alfred Frankenstein

# something wonderful has happened in high fidelity



# a record changer with turntable quality performance

The new Glaser-Steers GE Seventy Bovon made its debut at the 1957 New York High Fidelity Show. Theseands of people filed through the demonstration rooms to see and hear it perform.

Response was sensational. Liptenars were astounded to the quality of the pound - the absence of wew and flutter, and - the absence of runble, even with the beas sharply bousted.

Three GS-77 features received the most mment: Speedminder, Turntable Pause, and the Tone Arm.

aragumentan is the super automatic setting on the speed schetter knob at which the over has virtually nothing to do but place the records on the spindle and select the correct stylus. With the clondard groove stylus in

asition, the changer automatically plays at Thepes. With the micrograve styles in position the changer automatically operstes at 33% and 45 rpm, playing both speed records intermined in any pounenes.

segmentation also protects both stylus and record, for pop can detect immediately if you are using the incurrent styles. The changer on also be 'dialed' to per 16%, 22%, 45 or 78rpm, automatically or manually.

TERSTANTS PAUR brings to the sutamatic GE-17 all the gantleness of record handling associated with manual terntables. In the GS-77- and only in the GS-77 - the furntable passes during the change upolo and recover under anly after the signs is in the ren-in groove of the next cannel.

This eliminates the curless priods which takes place in conventional changers where the record draps colo a relating record. Turntable Pause protects your recerds, and adds many, many plays to their useful bis.

The vers and of the GS-TT is easilier example of precision angineering - mi-dent from the very mamont you BR and handle it. Movement, laterally to well of vertically, is as smooth and free from friction drug to you'd expect to a high quality transcription orm.

Fundamental resonance of the ores in well halow the sudio hand, and of extrently her amplitude. Accustical isolation is also used to prevent obration feedback through the arm pivot.

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... and there is much, much sure! See off the GE-77 features! See the advanced, yeave-ahead styling. See why more levers everywhere half this Amer-

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



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# ADVERTISING

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If was an diff promise that the Angest A122-SF Partable Succession for successful to the same designed. Each Bak is the chain,--- Sam recording and picylash baseds to speaker --- was forged to the same contains standorth and problem blaneses which product the meanfactors of ward-formers Angest professional recording and picyback equipment.

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# **AUTHORitatively Speaking**

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Marries Mayer, who takes as monitoing the first days of imaginity-see page Hahas heren a regular contributor to their pages three he belt his copp-editor's deck at Zapater in 1054, Now a first hence, he elivides his their between basic and magnetic articles. He has proposed there can result or editions of the Maco paperhad Hi-FL cash of which also has aroun furth as a hast cover; from other Bandam Hause or Martifikas.

Hallis Algori, who doe murth completes for as his survey of attitus-and-reportance managements in the record comparison (page 46), also is to the hard-cover hashness: Albeel A, Escapi, has next summer, will lating forth an Algori nevel, sather appropriately cutitled The Summer Lowers.

Arthur W. Wayne is a willy and attiru-late Brites (scal "Snark Space," page 42) who makes two livings at once. He is a concert planist and on statis engimore, He made his grit public opposestor at a heyboard when he was seven, and has been playing preferdenally ever date, equivally is an accompletely Assung preferences he has charged stages with are the late Kathlern Ferrier, Jean Hammed, Campoli, Larry Adler, and Eve Taquer, He also has pleyed as wholst at nearly every encount had at any hupertance in Corat Britain, Drspite this, he says he has always here more infinitely concerned with regi-precise, especially in its mathematical aspects, than with sensity, he stalls aspeets began to atitact blue in the 1930s, when he realized that commercial governite reproducing equipment yas not what it could be, and decoled to design some Manuell, This benught take being Sharley Laboratorities, Lad. whereas Mit, Wayne is managing director, R's in Worthing, Sucury, 180 enjoys made, tinkering, and coting coland, pickles, and typ broad hefeire a log fire. Among his amote he line one (1) wile and two (2) children, one of where is at Cambriddan.

Amethor trigitarr him unchan historyphonony aphrolip speaking-is Morton Backapan, who arise to page 50 of the Backapan, who arise to page 50 of the Backap Symphony Orchestra's first broad with principanet. Restars commuaraby by bit indevice first set o restine Backasian and a p feature Alice graduating (Growers Litrostory, or Chino planting director first attempt a withch didn't control to arite at

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## ON THE COUNTER

#### **Gontinued** from page 6

2% at 30 watts, 1.83% at 20 watts, and 0.35% at 10 watts; frequency response is  $\pm 0.5$  db from 15 cps to 50 ke and  $\pm 1.5$  db from 15 cps to 100 ke at 30 watts.

A new ADAPTER from Switchcraft will accept a phono plug at each end.

Grundig Majestic's current line is too long to list. It runs from tablemodel Radios to TAPE Recondens to radio-phonograph-TV Consoles. Thirty items in all range from 879.95 to \$2,795.

The Components CI Special FURNTABLE will operate in areas served by either 50 or 60-cycla power, simply by shifting the bolt to the appropriate step on the turntable's pulley. Speed is 33% rpm; price is \$44.50. The unit is similar to Component's Professional Junior model.

All models of Sargent-Rayment's regular line of Tusteas and Amplaritess are now available with flushmounting escutcheons for mounting in consoles and walls. Further Heribility is provided by two accessory kits: one for conversion of cantilevered cabinet model to a flushmounted one; the other, for converting a flush mount to a cantilevered model.

The complete line of Wigo loudspeaker systems is described in a new CATALOGUE issued by United Audio products.

Ferrodynamics is offering a shatterproof plastle TAPE CONTAINER with a variety of means of storing, for their line of Sonoramic recording tapes. No price is specified.

The Alonge TARE EDITING DEVICEperforms both outting and splicing operations. Measures 4½ by 3% by 3% in ; weight less than a pound. Price is \$29.95, postpaid.

Rockhar has introduced three new Collaro Recond CHANCERS. The TC-540, called the Collaro Continental, is a four-speed unit incorparating a transcription-type arm; cast is \$46.50. The Collaro Conquest, TC-340, with the same arm, runs at 335 only (we think), and costs \$37.50. The Coronation RC-440 is a four-speed model and will accept all standard cartridges; price is \$41.50.

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#### Art and Ethics

Ser

You publish in your October issue an article by Paul Moor on Herbert vra Karajan

WhyP

I can imagine nothing more objectionable in tous. . . Husically, the article tells us nothing of value Karajan's great gifts are bolittled; the subtitle "the operator" implies that Kersjan has attained his present eminence by skillful maneuvaring rather than by his musical talents. The fact that his Mozart is every whit as sensitive as Brecham's, and that he has recently brought out a Falsioff on discr which many critics prefer to Torcantati, Bads an mention, . . .

I protest at your adding and abetting Mr. Moor in his witchhunting and mud-raking proclisities. Agents are important not for their politics, nor for their sumals (both of which are more often than not deplorable), but for their .316.

> Euald Junca London England

#### Odi et Amo

Sent

I am flattered that the editors of Hum Finality and Mr. Moor consider all the readers of vour magazing to be linguists. But I am afraid that you are wrong about this reader, I am just one of the uneducated record buyers (and I believe there to be mustry ).

I am referring to the quotation "Je l'anne et je le déteste," which appeared in the article entitled "The Operator." I made two guennes about it, neither probably right: that it was French and what "déteste" means.

Would it be asking too much to

Confidend on page 13

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# LETTERS

Continued from page 10

have such future quotations transisted?

> Robert Nichen Fouton, Minn.

Happy to translate. In order to oppress the subliquity of his feelings about Von Karajan, the anonymous French munician in Mr. Mean's article was implied to quete from Catallus' ade in Levisio. "Odl et anne" (I hate and I here) ---Ed.

## Credit Where It's Due

## Sa:

Thank you for your very complimustary review of my Mozart recard in the October issue of High FIDELETT. I would like, however, to make sure that honor is given where honor is due, and I notice that your reviewer states that Peter Bartok was in charge of this reoverling. This is not accurate. The recording engineer for this marticthat record was Mr. Hale of London, England

I notice also that your reviewer imagines that there are no fewer than three Boyd Neel Orchestras in existence! Why he should instgias this, I have no idea, as there has never been more than one to my knowledge at any time.

Perhaps it would be of interest to your readers to know exactly who engineered the recent set of Boyd Neel recordings, The socalled "Light Music" disc was done entirely by Peter Bartók, as was the Vaughan Williams Tallie Fautasia and Greensleeves. The Brandeaburg concerns, the Mozart record, and the Dvorak Serenado were all engineered by Mr. Hale. Bartók used Horasey Town Hall and Hale recorded in Wenshiey Town Hall, Both halls are located in the north of London and have been much used at various times by recording companies.

Boyd Neel Toronto, Out. Canada

#### Sonic Disagreement

Sort

After reading Mr. Robert Charles March's review of the five Beethoven passo concertos by Roberstein

Continued on page 14

HIGH FIDELTLY MAGAZINE

# Did Someone Say "Switch?"



When the art of recording was just taking shape And it seemed to the experts that tape was just tape, It made sense to try switching from this brand to that— Until irish pulled FERRO-SHEEN out of the hat!

Now the FERRO-SHEEN process, the experts agree, Has made **irish** tape different in *kind*, not degree, So there's no earthly **reason for switching your brand**, Save from Long Play to Double, or Brown to Green Band!



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trinh frinh renno-setten bount pur frank un theil Myler bars and destilder un Tr and Pressi There's un trinh tage

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## LETTERS

#### Continued from page 12

and Krips in your October issue, I find myself in almost complete agreement with his opinions, except for one. This is in regard to his comments on the sonic properties of the discs. Mr. Marsh states that ... there is richness in the low frequency registration .... unmarred by booming resonances, that combines with bright and agroeably balanced highs to produce intoxicating sound with clean detail." On my copy of the third concerto the exact opposite seems to be the case. I find the bass, particularly the timpani, to be very overrecorded and resonant, and the strings appear to be quite ilistorted in several places, especially in the first and third movements. of the work.

I do not helieve my record playing equipment is at fault, for I ain using a Pickering Fluxvalve cartridge, a B] arm, and a Bek-O-Kut funntable. For this reason, I think it would be advantageous for Mr. Marsh to reappraise these records, especially the one that I have mentioned.

> Lowell Cross Lubbock, Tex.

Legal Slipt

SIR:

On page 63 of the October Hich, Finetry you make Mc. de Menasce say that some things were "more or less res judicuts." A new sort of jazz famatic, or just a misspelling of Latin?

W. E. K. Middleton Ottawa, Ont. Canada

Brazoning it out, we could explain that a judicat is something that may look at a judiking, but it would be a little more verscious to admit that an s may look like an a veloci a proofreader gets a little weary of looking at citize. Yes, Mr. Middleton: res judicans. —Ed.



HIGH FIDELITY MAGAZINE

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FRATURES SUPPOCIENT reserve power capacity to of the audible spectrum. The "200" exceeds the requirements of any program source available soday. OUARANTIBOI 60 watts of power at the speaker terminals on contrauous sine-wave operation. GUARANTIBOI Conservatively handles 160 worts of power on peaks up to 30 millipeconds in duration. But high reserve power is only part of the story. THE FISHER Model 200 provides controlled frequency

and power response above and below the audible range for unequalled sublify, with excellent transient charasteristics, even under adverse loading conditions. Power and frequency response are uniform skroughout the audible range at full-vered campus Harmonic and integenedulation distortion, as well as how and noise, are completely hemidible. Translated have terms of listening pleasure. THE FISHER "200" achieves the ultimate aim of every high fidelity exchanisestthe completer realizes that is possible only with absolutely clean tonal output. \$17950

## OUTSTANDING SPECIFICATIONS OF THE FISHER "200"

• Provide a substantia de la constantia de la constant

Denner annertinen fan ersteine granter annere O Partister Elderte Vastaties Daarfeins rener artere annere an onere granter O Free enteren O Berley and an orter Canera Burrey Petros Sveran. O Endere and the serve Canera Burrey Petros Sveran. O Endere and the serve State State O Create State of the serve visit. 1361 serve dans State State State of the serve visit. 1361 serve dans State State State of the serve Williem State State of the serve dans of the serve Williem State State of the serve dans of the serve Williem State State of the serve dans of the serve

WRITE TODAY FOR COMPLETE SPECIFICATIONS

# FISHER RADIO CORPORATION . 21-25 44th DRIVE . L. I. CITY I, N. Y.

JANUARY 1958



# NEW FAIRCHILD single-speed 33<sup>1/2</sup> rpm TURNTABLE UNIT

# easily converts to 4-speed electronic operation

The new Fairchild 33M rpm turntable is, by far, the finest single-speed unit over designed. And it is priced at only \$99.50.

It is almost incredible. Rumble, wow and flutter have been so drastically reduced that if their presence is at all detected, they originate in the record or the recording equipment. It is the audio perfectionist's dream come tries.

Utilizing the barest minimum of moving parts, this now tagnable achieves an accuracy and constanty of speed, a quierness of operation beyond anything we have ever known. A hystercussynchronous motor drives a Densite-damped, aluminum turntable through a 2-stage belt drive.

The entire unit is monsted on a unitized chassis. And by simply adding the Fairchild Elec-

troals Control-Regulator, you can convert the single-speed usfit into the fully electronic, 4-speed Fairchild E/D.

Turnable Unit, Single Speed, 3345 spen	99.50
BCR (Electronic Control-Regulator)	35.00
Fairchild E/D Electronic 4-Speed Turntable complete with ECR 3	00.05
Hardward Bess (shock-mouseed) in weines, makegany or korike	31.50

See your bi-fl dealer for campions details, or writes

FAIRCHILD RECORDING EQUIPMENT CO. 16-19 494 AND, LLC 1, N.Y. Bapert Departments 41) Path And, New York 1, N.Y.



## Spatnik

The voice of Sputnik I has been preserved for everyone on a 45rph) record released in November as part of a \$1.00 hooklet. Booklet has pictures and descriptions, It is available on most newsstands or direct from Mooney-Rowan Publications, Severna Park, Md. The record includes several minutes of heep-beeping as well as a description (voice) of the event.

A Russian translation is available to elsver stereoistis. Simple: record the disc on a monaural recorder, half-track. Transpose reels, record the second track. Now play back on a stereo machine. One car will be English, the other Russian. Played back simultaneously over the largest speaker systems available, the present state of the world is well depicted.

## Spotnik (continued)

University Loudspeakers made quick capital out of Spainik, which began its earth-circuiting almost gimultaneously with the opening of the New York high-fidelity show. University had an exhibit which featured a cloud-surrounded revolving globa. With the first brep, a University engineer got a ping-ping ball and completed the picture.

#### Tape Recorder Catalogue

The October issue of Audio Record contains a detailed listing of tape-recording equipment. Over 125 units are pictured and described. Published by Audio Devices, Inc., 444 Madison Ave., New York 22, N. Y.

### FM in California

A card from Chatles Mish tells us that KPEN went on the air Octo-

Continued on page 31

HACH FINELITY MAGAZINE



# ELectro Voice MAKES HI-FI HISTORY WITH

For the first time—and only from Electro-Voice you get performance from along-the-wall speaker enclosures which approaches the performance of a corner horn! E-V does it with the exciting new principle of PHASE LOADING, the most important advance in baffle design since the Foided Corner Horn!

Designed specifically for use along a tooll, phase loaded cabinets give you almost a full added octave of base range and completely eliminate the "boomy" characteristic of base reflex enclosures.

Plat, fundamental response is obtained two ways with PHASE LOADING:

First, by placing the driver at the rear of the cabinet close to the floor, and facing the wall. The wall and floor act as reflecting surfaces; close and almost equidistant from the driver cone, eliminating phase difference between reflections and the source.

Secondly, Phase Loading permits a sealed cavity behind the cone, of precise volume. The compliance of this cavity, in conjunction with the mass of the cone, is made to react with the mass and compliance of the outaide air throughout the second octave, adding this range to the response not otherwise attainable except through corner horns.

The low crossover of 300 cps makes this system poscible, for higher frequencies are not propagated properly by indirect bass radiators.

The application of these principles in E-V's PHASE LOADING gives full-bodied, extended low-bass hitherto unavailable. Musical balance is achieved for the first time in an along-the-wall system.



CONTRACTOR OF TALLS AND MADE

a carve shows performance of the sevel 4-way sysis like basis reflex icabinat. Note the dip ini 8.5 cps, ich shows the destructive concellation and the reincommit (peok) at: 120 ccpp. which source "hoom."



This curve shows the smoothess throughout, the entry response und the extended box response you get only from a foldbud hore contex enclosure.



PHERADIA IN CHILDE AND STORE

This if E-M phase loading. As you can see, performance in an along-the-wall position desidy approaches that of the conterthem.

# DESIGNS FOR



The spectar system down mounted in place is one of more than a daren vertetions which may be amplayed in the ABISTOCRAT acclears alone Spectar performance date between

# THE DIRECT RADIATOR CORNER HOR

Typical of Electro-Voice direct radie folded horn corner enclosures is the AR TOCRAT, a deluxe space-saver desig for use with E-V 12-inch coaxial speakers TRX integrated three-way speakers your choice of speaker systems. It is signed for use in a corner, where the w of your room serve as extensions of base horn to deliver one full extra oct of bass range. Increased power-handli in the lower range is as much as 50



Bas 6-V AMSTOCIA the CA 6-e of Bases correst materials, F and P recess work and the propagate base interes. Corver 1 control, Bas represent



the lepised eponer drivings have dear yound path from d radiation.



ARSTOCRAT 14 340 347 767

# Integrated Speaker Systems

This is the Electro-Voice 108A direct radiator speaker system shown in the ARISTOCRAT enclosure above. It's an economy 3-way system employing (a) 12BW low frequency bass driver; (b) TIOA treble driver with SHD horn for midrange repredention. (c) T35B very-high-frequency driver for silky highs; (d) X825 crossover; (c) X36 crossover; (f) two AT37 level controls plus wiring harness and haffs board. Crossovers are at 800 cps and 3500 cps, lowering intermodulation distortion and assuring optimum operation of each element in the system. Complete, ready to install, Not \$168.

# FOLDED HORNS

# THE INDIRECT RADIATOR CORNER HORN

ing an advanced indirect horn-rediator prinde E-V design extends the lows, enhances the, uses room walls as extensions of the ponential horn air load. Indirect radiation d employment of low crossover frequency, ows exploitation of the sealed cavity feare explained on Page 1. These enclosures hually assure more than one full octave added bass with unprecedented efficiency, ovide direct front radiation of higher freencies, cleaner overall musical balance.



This is the response curve of an Biochio Value Contorian Indiraci radiator (200ed correct laste ordinarro etgloying a 4-way apachor system. Mate the captodal Aptenno of response.



Arrows & diagram daw stand path in da ladrast reductor server endeavely





This is the 117B indirect radiator speaker system shown in the CENTURION enclosure above. It is an economy 4-way system of unusual performance and high value (g) 15BWK K" type low-frequency drives for heas reproduction; (h) MT30B coasial mid-bass and treble driver-horn assessbig; (i) T35B very-high-frequency driver for smooth reproduction of the hight; (j) X36 crossover; (k) two AT37 level controls plus wiring harness and complete instructions including enclosure construction details. Electronic crossovers are at 300 and 3500 cps and there is an aroughle crossover at 1000 cps. Complete, Net \$151.

Also shown are some of the components included in the debuse 105B system of the same type. This debuse system substitutes a high-efficiency 15WK LP driver for the 15BWK bass reproducer shown and also includes MT20 mid-bass here assembly and a new T360 VHF driver, an Ultra-Sonaz model which has a frequency response of 2kc to 21 kc, ± 2db. The debuge 105E system complete, Not 9245.

# FOR HI-FI ON A BUDGET, FOLLOW THE ELECTRO-VOICE BUILDING BLOCK PLAN



Start with your basic speaker and improve your compatible E-V high-fidelity system one economical step at a time by adding Electro-Voice Speaker Building Blocks.

Here, we've started with an SP12-12-inch coasial driver. Later, you add BB2-a T36 very-high-frequeticy driver, X36 crossover and AT37 level control with wiring harmess, BB2, Net \$50. Still later, augment with the BB4-to smooth and disperse trable range, it includes T25A trable driver, with 8HD horn, a second crossover-800-cps X8-and a second AT37 level control with wiring harmes. BB4, Net \$114.

Build Your Own E-V Speaker Enclosure with a Pre-Cut, Pre-Cleated 'Do-It-Yourself' Kit

There's no thrill like building your own speaker enclosure! Economize on your hi-il system without sacrifleing quality by emembling an E-V knock down kit of Korine plywood. Korine is of highest quality, naturally light in color, herder than mahogany, allows finishing to much any shade. There are seven models to chease fromShown dis-extensibled is 8-KO6 k8. Assemble it and 30 have a duplicate of our intary-built ARISTOCRA enclosure of folded horn conner design for use with 1: inch drivers or expectite will way systems. KD6, Net diff

For all the facto about Electro-Voice 'Lesteneured' high-fidelity companients, see your distributor and write for complete details.



ELECTRO-VOICE, INC. BUCHANAH, MICHIGAN Ropert LI East this Bront, New York IS, U.S.A. Colden AMI.AD

# NOTED WITH INTEREST

Continued from page 18

ber 27 on 101.3 me with 1,500 watts in Atherton . . . that the San Francisco Chroniels has a construction permit for an FM transmitter . . . and that there's a new station due in Sacramento in February. Mr. Mish says "things use looking up, here in Northern California."

## **Open House**

Acoustic Research, Inc., manufacturers of the AR-1 and AR-2 speaker systems, will hold open house from Monday through Wednesday, January 20-22. Tours through the plant will be held at 11:00 A.m., 2:00 p.m., and 4:00 p.m. The address is \$4 Thorndike St., Cambridge 41, Mass.

# Fair Trade

Electro-Voice has announced a fair trade program has gone listo effect for its products in California. Good!

### Mildew

A subscriber in Florida asked what to do about mildew, said her records were being damaged. We knew how to get mildew off, but not how to prevent it. A letter from Dampp-Chaser Inc., 1440 Ridgewood Blvd., Hendersonville, N. C. tells about a product they manufactures gentle electric heaters, encased in aluminum tubes one to three feet long. They consume eight watts per foot, may bo placed inside pienes, closets, and storage cabinets. Prices are from \$5.95 to \$7.95. Dampp-Chasers are sold by leading department Stored.

#### Radio Library for the Blind

The South East Amateur Radio Club, Inc., of Cleveland has announced the SEARC Radio L4heary for the Blind. It plans to act as a clouding house for information on electronic literature in embassed and tape-recorded form, it will provide a depository for Braille and tape-resourcied readings of literature pertaining to electronics, and will offer taped readings of electronic literature. Full details of Continued on page 23



EVERY PRATURE you need today - or may need to the years ahead, is incorporated in these two menhod PISHER shits. Per a employe muck system, simply add a reveal changes and hudspecity:

# THE FISHER FM-AM Tuner . Model 90-T

Because of he exclusive FISHER Gold Cascode, the 90-T is ancondissonally guaranteed to be the world's most sensitive FM coner Ourstandered Farmens: Electrony Mercodiar Person Instrument, Electrony, In genhamme inserventee months on Visi and publishing All advecting, E Completely versarile Asmo Carton Carvas with one Persons Carmas and three-publics Means and Ramons Farme. Chant. \$23950 Matagent of Bande Colmen, \$19.95

# THE FISHER 30-Wott Amplifier . Model 80-AZ

A high reserve of power for close, undisserted reproduction. Conservatively rated at 30-worth, the 80-AZ handles up to 60-wats pushs.

Ouver unsere Farvener . Les des 18 America es fall empire. . Dat form rempires from 20 to Shill order, vilite 0.1 dk . Han and onto testally an annunstate. . Enduere 2-bit ere Variable Damping \$9950 Comeri . Input Lord Conned . Phase Inverse Balance Conned.

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# Two to build onfrom SONOTONE



# THE CA-12 12-INCH COAXIAL LOUDSPEAKER

- Full range (40-14,000 cycles).
- · Wide dispersion from the elliptical cone tweeter,
- · Complete L-C dividing network built-in.

Music to your ears if you want really fine sound on a limited budget. Ideal if you're already thinking of a second speaker-especially for stereo.

\$19.50 NET Zans 1-521.00

# THE 3T CERAMIC CARTRIDGE

- Flat response "unusually smooth over its antive range."
- Naturally equalized...no magnetic hum ar climate problems.
- · Easy to install...snap-in needle replacements

The 3T-SD Cartridge, complete with sapphirediamond needles, is priced at only \$24.00 LIST.

\*Audio Langue Report-April, 1956-And there is no more suspected authority for sugard, Bitpertial listering tests.

ASK YOUR DEALER FOR A DEMONSTRATION. SEND IN THE COUPON BELOW FOR FULL DETAILS.

**Electronic Applications Division** 



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	TONE CORPORATION ment LH-18, Elmsford, N. Y.			
Gentler	men: Please send me complete det	ails onr		
	the CA-12 LOUDSPEAKER	E.the.3T	CARTRIDGE	
Nama		-		_
Address		-		_
City		Zone	State	

HIGH FIDELITY MAGAZENE

22

# NOTED WITH INTEREST

## Continued from page 21

services available to blind persons may be obtained from Warren Sladky, Librarian, SEARC Radio Library for the Blind, 11519 Parkview Ave., Cleveland 4, Ohio,

May we wish the best of success to this worthwhile effort.

## More about the Blind

Another organization doing much for the blind is Recording for the Blind, Inc., 745 Fifth Ave., New York 22, N. Y. They have their own recording studios, where volunteers read into tape recorders. Then the recordings are transeribed onto 165-rpm discs in New York. Studios are maintained in the following communities, and those interested are urged to get in touch with one of these local malts Atheus, Ga.; Chicago; Denver; Lenox, Mass.; Los Angeles; Louisville, Oak Ridge, Tonna Phoenix: Princeton, N. J.

# New Factory

The booming high-fidelity industry is causing manufacturers continued expansion problems. One of the latest to move into a new plant is Rek-O-Kut, with a 25,000 sq. ft. factory capable of doubling output. George Silber, president of Rek-O-Kug and of the Institute of High Fidelity Manufacturers, prodicted that component high fidelity swould gross \$250,000,000 to \$300,000,000 in 1958.

## Finrida Awry

If memory serves, we once had an item in NWI about some fellow in Florida who was figing up a hotel, so that instead of having injangling telephone hell awaken thetired traveling map at 7:30, the lights would come on, soft voices would whispet, and so forth. We objected, on obscure grounds,

As if the foregoing were not enough to scare people away from his hotel, this same inventor (?) has now figured a way to guaranice that no one will escape afterdinner speeches: he's fixed up the Grand Ballroom (seats 4,0001) with 300 watts of audio power blatting out through fifty-four directional loudspeakers.



WITH THESE two outstanding EISHER units, you can own familitation inday. They represent the ultimate in fischelling, absolute reliability and fidelitized reproduction? A perfectly matched audio team.

# THE FISHER FM-AM TUNER . Model 90-R

Because of its exclusive FISHER Gold Cascode, she 90-R is unconditionally guaranteed to be the world's most sensitive FM inner. Operations Platians a 0.3 interovals evolutions. I Magining AM saterinity. = Exclusive publication interstation mailing on PM and publputter, AM administry = Statestic Manuflav Tuning Innerstation Three expanses States. Racons and Matterials. - Chinese, 519950 Mahagang & Riccolly Cohines, \$19.98

# THE FISHER Master Control and Amplifier - Model CA-40

Complete audio controle and power/ul, 25-wati emplifier on one compact change. High reserve power for glean reproduction. Outrrassuse Features: • Less than 1% discortion at fall output, • Sin inputichancels. • Complete equalization, and preamplification for records and tape. • Exclusive ToxicScore graphically displays light and \$13950 Techle tone control settings. Prior, including cables shows.

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FISHER RADIO 21-25 44th DRIVE LONG ISLAND CITY 1. N. Y.

23

MASTER CONTROL AND AMPLIFIER

MODEL CA 48



Wone who enjoys listening to or reading about music simply to sit (or, better, to lie) hack in unbuttoned comfort to brouse as his casual fancies and the entirements of his library lead him. Perhaps the nooprofessional never can fully savor the professional's debcirus. sense of escapade from duty when he encounters a record-or a book -that can be dipped into, sampled and shipped, for sweet entertainment's sake alone. Yet even a layman can feel the same thrill of selfinclulgence that comes from enjoying what he likes rather than what is, or should be, good for him-on rojovment further spiced by his someo that if this isn't a sin (as the apperyphal Frenchman exclaimed when he first tasted for creana), it certainly ought to hel

The professional music-book reviewer of course has less time for reading of this port, but this month, for instance, I've here backy enough to discover several of these approxing dipertiments which have enabled me, ironically enough, both to incluing my own tastes and simultaneously, if inadvertently, to accumulate sufficient materials for a whole column of personal reports on books I've mejoyed and which I'm sure many other music lovers will relish with no loss guito. And they, too, are blody to Bad that they have-peinlessly and quite unawares-actually learned as much as, if not more than, they might have in formallard schoolwork.

## Bowitched But Not Bewildered

My first current escapade furnished the biggest surprise, for a 665-page World Treasury of Grand Opera (Harper, 66.95) terrorized mo both by its size and subject until i discovered that it wan't the usual collection of plot-"stories" but a mammoth grab hag filled with some of the best things ever written, pro and con, about the fabolous art's "triumphs, trials, and great personalities."

Did I wonder, a few columns back, whether anyone ever reads George Moore's Eccips James monadays? Well, the present editor, George R. Marek, has-and includes encerpts from not only that novel but also the writings of Cather, Flaubert, Forster, Mann, Pushida, Toistoy, and Turgeney. ... He knows all the outstanding biographers, critics, and cheoniclers of opera, of course, and unerringly selects some of the liveliest pleases by a galaxy ranging from Handlick. Rolland, and Shaw to today's Burk, Downes, Gilman, Kaladin, Newman, Pleasants, Sheean, Toye, et al. In addition he shreadly lets some of the creative and executant operatic luminaries speak for themselves: Berliaz, Canuso, Da Ponto, Cluck, Lotte Lohmann, Looncovallo, Rossint, Saint-Softer, Richard Straues, and Verdi, Yet he mover permits a name to divert his choice from arrestingly vital materials, including those buried in LP-album booklets, the files of Time, or other loss families publications.

Along with Som Morgrustern's Composers on Music, cited here in March 1957, this "treamery" by an executive of IRCA Victor's record division and a frequent panelist on the Metropolitan Opera Quits survly ranks as one of the finest musical anthologies and musie-lovers' beduide companions ever to appear in this country. Even a nonopera-fan like gyyself can browse in it with zest (not least over some of the dellations of characteristic operatie econors), and it's only after putting the volume down -temporarilyl-that I revert to my own professional role and scratch my head to find some fault. Sure enough, Mr. Marek incicusably neglected to include anything from Stendhal's Round and his publishs ers failed to include a badly needed index or even an alphabetical list of the authors represented.

## Old Man of the (London) Times

There are almost as many new (10 me, anyway) discoveries in the atarest collection as there are welcome reminders of old favorites, and among the former the one which impressed me must of all is the long, barbed, illuminating study of "Faust in Music," by the vonerable dean of living music critics, Ernest Newman, Tantalizingly it left my tongue hanging out to taste for myself some of Schumann's Faust music, but more immediately it galvanized me into exploration of the just-received From the World of Music (Covard-McConn. \$5.00)-Felix Aprahandan's skillful (though again unindexed) winnowing of a small but vital segment of Newman's writings from 1922 to 1952 to the Sunday London Times.

The Old Master was one of my own first mentors, thanks to his now-neglected peer, Philip Hale, who used to quote him at length in the "entracte" pieces which enliv-ened the Boston Symphony progran hacks in my shulene days. I've always cherished in particular the memory of Newman's review of Walton's Forade-and 1 and that it sparkles more brilliantly than ever an recending, Indeed, sparkle and here, insight and wit (and a stubilism refusal in take bimarkor even music-too seriously) are typical Newman Thumb-prints," akin to the characteristic melodic formulas he has succeeded in identifying as certain composers' unfor geable "signatures."

Only Noviman could have written about one nation's claim to the pole inheritance of Greek culture that this 'thesis has been a favorite one with German writers for many years; it is merely one more exemplification of that engaging modesty that compels the Germans to admit the truth about themselves, even when it appears to verge

Continued on page 36

HICH FIRELITY MAGAZINE

# They're crazy about the C-slot reel!

Tape fans give enthusiastic reply to survey on new easy-threading reel

Watth our research engineers developed the C.Slot reel, we were so convinced that it was the perfect solution to tope-threading problems that we put it into immediate production. But just to confirm our own enthusiasm, we sent out samples to 260 independent tape recorder owners - professional, educational and home recordists throughout the country. We asked them to test the new reel and tell to how they liked it.

So far, 203 persons have responded. Of theor, 189 gave us their opirited approval. That's



93%. The remaining 14 indicated merely that they were neutral. There was not a single megative rating.

It seems to us that this survey, like Andiotope, "speaks for itself." They're crany about the C-Slot reel! Just look at the comments quated at the right.

If you haven't yes tried the C-Slot reel, get a 7-inch reel of Audiotapp from your dealer and see for yourself. You'll be getting America's finest quality recording tape on the most convenient reel over devigned.

il spraks for ilself

AUDIO BEVICES, MC., 644 Madicas Aven New York 22, M.Y.

# COMMENTS

"I hope the C-Slot reel will be used exclusively for your recording ups." N.B. - Columbus, 6140

"We find is especially easy to handle with big fingers." E.C.A. - Promotio, Wes.

"I think it is a great improvement over any other real new on the market." C.D.B. - guerry. Pa.

"Rest to date. You have avarcance one of the pubsences of upo recording." R. H. B. - Drum, R. V.

"Also holds supe bester," L.A. . Potstown, N.A.

"It's about these associate inproved the real. I shink it's the greatest."

E. B. A. + Los Angolio, Coll.

"Cross"

"Very nice roel - good, clean appearance, and physkully strong. A pleasure to use."

A.R.A. · Wilsonry, R.A.

"Threading appe an a real never uses a world shahiling problem. But it uses bothersome and meany watil your genius produced this. Time taving and bemutiful in its simplicity."

B. B. + Palla, Pa.

"At loss, 'the' amount to the threading problem." E. B. A. - Calamet, H. A.

to Rathpursol, 1995 B. Paležon Arc., In Chicago, 3429 Milwinkov Ano, Espart Ampl./ 13 Cast Asin DL, ILV. 16, ILV. Cabino "Adl.AS"

# BEST BUY IN HI-FI



#### 2004 25 Watt High Flatting Amplifur

A defines amplified with new styling and encostlyned sectormance , ... the best buy in the modum priced light. The local 20% has growter fundably of controls, now advanced circuity and the tightst quality components, fourtures, foreflact throughout, separate homover and relief recent componentors, new hughers codest, who range hass and trothe controls, runtize and corolch flors and the inputs, including Lage hand. The 20% is designed for media and anone that 20 works is all the power he can of them in his homos.

# SPECIFICATIONS

19744 19 EDE Right Friedrich Angeleicht. Die bis neue ünteren 19745 bes ben genere bei die some anderen der erstelligt des beginnen ansehrt erstelligten der geneter forstelligt of erstelligt and forstelligt. Die bestellt erstelligt erstelligten, der bestelligt erstelligt erstelligt and erstelligt erstelligt anderen der erstelligten erstelligten and der bestelligt erstelligt erstelligt erstelligt erstelligt anderen der erstelligten erstelligten and der bestelligt erstelligt erstelligt erstelligt erstelligten erstelligt anderen erstelligten erstelligten erstelligten erstelligt erstelligten erstelligt erstelligten erstelligt

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And your High Pickeley October to descentency the New PO Series or units for complete details and others to bins	Erniche filter for Lit Boltiers!
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Invest	dAYER BUILT     COLOR-SUIDE     Write for details before     yes build mother kij

# BOOKS IN REVIEW

#### Continued from page 24

almost on flattery." Others have warned of the dangers of overfitdalgence in disponance, but never in the vivid terms of Newman's suggestion that "professional atudents and litteners may possibly be in a condition corresponding to that of the hover who has been hammered so hard that he has ceased even to know he is being hurt. The technical same for this condition is 'punch-druph'....."

This is also the man who can write with catraordinary perceptinn about Wazzeck, who can bring golden rays of pure common scass into the murky realms of mulcal critician, singing, and operatic acting, Nevertheless, it's the rough side of his tongose in-check which gives him so special a place in musical literature and makes him so exhibitating to read. After a bracing shot of straight Newman we realize just how subconsciously feel-up we've become with fatuous, mealy-monthed words on music; and we can most sympathetically echo the famous outhurst of a foreign coochinator (quoted here in a statous little piece on Esperanto as a language for musical criticism) driven to exasperation by his men's constant chattering during rehearsels: "Don't spokel I can stand it then and now but always my God never?

## Dan't Short the Poor Planuy Players!

Although I have long known Abram Chustes (musical director of radio station WQXR in New York City), I never had suspected there was a rough edge to his tongue, too, until-recting avially through his first book, Speaking of Pinniete . . . (Knopf, \$4.00)-1 was brought up short by the bitterly eliquent chapters on The Chains of Management" and "High Fickity-High Fatality." Here is disil-hutloamout indeed for anyone name mough to believe that inferprelative artistry is rewarded stricth according to the merits and that the LP era has brought unmixed blessings both to performers and listeners But what Chasins has to say has long needed saying and the questions he raises about the future

of the arts in this country are as pressing, if on quite different levels, as those which Spuendsr I & II point up about the future of our ethaces.

For the larger part, however, Chasins' book is written more genially, enriched with reminiscences of the great planists he has known Intimately both as musicians and all-too-human personalities, and shot through with practrating insights into the essences of keyboard artistry as well as into the individual talents of the londing planists of recent decades. Those who have themselves struggled at least part way up the Gradue ad Permeanum to digital desterity and those who are especially interested in plano music, composers, and interpreters will find this book-much of it inner-circle shop talk-partieplarly rewarding. The former will read these pages with renewed thankfulness=both that they had the invaluable experience of once trying to make music with their own fingers, and that by the grace of God they never attempted to make a career of 4t. And the latter will have to make room on their piano-LP shelves for another mulispensable-and well-indexed-volune to place beskle Arthur Locaset's Mon, Women, and Pianos.

The delight with which I've read the other backs mentioned so far gives way to a kind of horrid hypnotic fascination with Ferbidden Childhood (Doubleday, \$3.95). written by former child-prodigy plantit Ruth Slenczynsky in collabpration with Louis Baancolli If Miss Slenczynita is to be believed (and, probably thanks to Barncol-It's deft journalistic polishing of her prose, she is shamelessly platethis is the case study in exceluis of both a mercilessly explotted prodigy and a maniacal father who hits new lows among the blackest villams of all musical hittory.

I must admit ] couldn't put these confections down before reaching the final, completely implausible, "happy ending." But the reword, except in gracesome citaliston, is negligible. The leston, if my, is anhy Don't be, or ratie your child to be, a prodigy! Miss Simczynska tries hard to convince us, and

Conunued on page 33

Excerpts from PRESS COMMENY on the



# High Fidelity (Constant Bond)

with the (monthal) andrai cat in tall by lasts (ball described as non-there seetlikely insite indicated that bary was attack and very data is below 40 syches, was still aniestified but thill there at 25, and drapped and computers around 20 syches. He double was autility at the mountain

entail stars that

Because of An Carbon depresent presence range, the AD-3 has what is no a retroutingly movel, smaple, and having internetic space. Also, is represented transportedly, and with vary good deeps. No high and is anothermore, but its ability to reproduce the performant of strong tone and the taking transaction of a training indiagon, that it is, induced, earlier backing highly when modeled. Eds, I heat, to as it should be.

the low and in rescaringly share and, the the AB-4, prompts stateplier that such does base could amonate from mill a small box.



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## BOOKS IN REVIEW

## Continued from page 27

herself, that she has come through as a matured interpreter, but to one skeptical reader there is scant indication that she ever learned anything genuinely vital about the arts of either music or life.

## Past Master

From such a study in suchem and masochom let's hurnedly turn with relief to a not entirely serious but always challenging evening's conversation with one of the wisest, kindest; most urbane, and wittily stimulating of scholary and Good Companions-Alfred Kinstein, whose still living voice is preserved. in many precious volumes. Certatily everyone who knows and treasures his great works on Mozart, Schubert, Gluck, and the Romantic Era (to cite only a few) will delight no less in a sheaf of his posthumously collected Essays on Music, edited by Paul Henry Lang (Norton, \$4,00).

Drawn from many journals and written over many years, these mostly brief papers add up to a minor-by Emsternian standardsmiscellany, yet it is one unified, not so much by the fact that some nine cut of twenty-two many deal in one way or another with Mozart, at by the heart-warming glow of the author's own npe wholom and personality. Whether he is writing about Mocart or some obscure eighteenth-century composer, about the Fictions That Have Shaped Munical History" or "The Mortality of Operas," the Einsteinhas glow always throws fresh illuminations over a far wider area than the opecific unbject at hand. always quickens his readers' sympathies and imaginations, and leaves then with the satisfaction that comes from revelatory contact with a first-rate mind and a truly great human being. Two of the most delightful papers here are those on various companers' "Opus 1" and "Opus Ultime"-and one's pleasure in the latter is shadowed only by the fear that the present volume may be the last metall. ment of Einstein's own legacy. For that reason, if no other, it warrante a place of special honor in every music-lover's library-and heart. R. D. D.

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GAPPP -

The great pyramid at Gizeh stands as much a monument to the skill of its builders as it. does to Pharaoh Khufu. Built circa 2900 B. C., covering upwards of 13 acres and measuring 755 feet to a side, the base comes within .65 Inch of formifig a perfect square. Bridging the time-distance gap between original performance and its re-creation in your home requires loudspeakers of the greatest precision. It takes a driver made with the meticulous precision that goes into the great JBL Model 375 to preserve the pristine perfection of an immortal artist's performance. It takes audacious thinking and advanced craftsmanship to produce speaker systems of the magnitude of the Ranger-Paragon and the Hartsfield. Both are described in the new JBL Signature Catalog. Write for your free copy and the name and address of the Autiphized JBL Signature Audio Specialist in your community.

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# Go Back Ten Years, and Turn Left ...

THERE IS a splendid literary exercise I shall call alling, since nobody has named it anything else, in which a number of fine writers have undubedmainly, I suspect, for their own entertainment. It consists of portraying, within the fictional frame of p. short story or a novel, what would have happened (to our own present-day world) if the Moskows had besten Charles Martel at Tours in 732 A.D. and conquered Europe, if Hero's stream engine had heen accepted as a practical device in ancient Alexandria; if Napoleon had here born thirty years carby; if Los instead of Mende had won at Gettysburg.

This bring the tenth anniversary of the inng-playing record, let us conjecture what would have happened if the LP had not been invented in 1948. I must credit my twice-told punch-line to Dr. Peter Coldmark of CBS, who, of course, had a great deal to do with the fact that the LP uses invented in 1948.

So let us have 1948 without LP, but with a developing interest in high fidelity. And, coming on at a great pace, tape. Recorded tape would soon have taken over the high-fidelity and serious music fields, almost certainly, both in home listening and radio broadcasting. Against the 78-rpin shellac record it would have affered continuity, durability, lower noise levels, and a competitive price. Someone would have designed and popularized a quick-heading tape cartridge, possibly incorporating twin reels. The 78-disc would have hung on as a medium of popular hit tunes (we'll assume that the 45-rpm doughout wasn't invented either), since even a twin-reel tape cartridge would be an uncornomical conveyor of fiveminut0 songs.

There'd have been broadening in the fields both of artists and of reperiotro, since the tape machine, as original recording device, can travel, as the studio disc-master cutter could not. There would not have here an enormous proliferation of small companies, since tape copying is more expressive than disc preaing, requiring capital. The comman tape speed, in home use, might have become 35 inches per second, by now. And the price of a new Beethower Seventh would be somewhere around six dollars and a half,

But vinyl plastics would have here developed for other uses-airplane windows, dentures, hatchen wrops. And at some point, it is hard to say when, some soughocking experimenter would have made his way into the office of a recording executive. Under his arm he would have carried a flat package, twelve inches by twelve. He'd have undone his bundle and presented its contents to the executive. No matter how had his sales talk, he'd have sold it. The disc LP would have arrived.

So there we are, tripped in our thing by a paradox:

if the LP hadn't been invented, it usuald have been invented, A pretty tame extrapolation,

Perhaps we don't go back far enough to begin our thing (I hope time travel closen't make you dizzy.) Thomas Edition invented nonuctico-mechanical wound recording in 1877. Valdemar Poulsen made the first magnetic (wire) recording a doarn years later. It would do us no good to reverse the order of their appearances. What we need is to have Lee de Forest come along with the sudion tube in 1800 or thereahouts, instead of in 1921. Without the power tube, you see, magnetic recording was limited in output to the approximate tonal range and volume of a telephone receiver. So let us move Mr. de Forest's epochal invention thirty years back, even though this involves sending a styteen-year-old inventor out to sell the incredulous world a fairly revolutionary development in electronics. Now, even though Mr. Edison's cylinders and Emile Berliner's discs have had a ten-year start, they will have small chance against veritable high fidelity, appearing in 1895. Spooled wire will become the chief recording medium, Cylinders and/or discs will become toys, for the annic edilication of children.

However, our temporal tinkering is (according to the rules of the game) limited to phonography. We cannot prevent World War II, which brings us a shortage of metab and the development of plastics to asyplant them. Our steel-core recording wire, costed with from catde, bocomes upobtainable. The ingenious Germans think of putting their iron code on a paper or plastic tape. We conquer Germany and discover this. We are impressed. Tape offers new editing case and higher fidehity-and it doesn't tangle.

Lights go on at night in the business offices of recording companies, as coups are plotted. Copywriters work late, pledged to secrecy. Research actentists and technicians battle bitterly in private about who thought of what first. And finally tron-oxide recorded tape is sprung on the public, along with machines to play it.

Munical program (in this particular thing sequence) has been conservative, with a few big enupanies recording the standard classical repertoire and plenty of operettas, all expensively. Popular bits can't find there way into recording, our can jam. The medium simply doesn't fit them. Their profit must cume out of live or broadcast performance's. And this is a temptation to inventors, not constantally.

And so one day, into a recording executive's office comes an experimenter, wearing http://immed glasses and a smog expression. Under his arm he carries a flat package, twelve inches by twelve. . . .

Im't this where we came fo?

J.M.C.

JANUARY 1958

# Fifty Thousand Sides Ago:

# The first days of LP

ana ana ang kanang ka

#### by Martin Mayer

"THE PROBLEMS we expected to have," said Peter Goldmark the other day, rocking back and forth on the univel chair in his cluttered office at the CBS building, "were distortionless cutting and length of time, really two aspects of the same thing, then plating and pressing, a pickup light enough and with a high enough compliance, uniform speed to the reproducing mator, small enough styli, wear of the stylus, wear of the record—that was about B. These were just the problems we had, too, every one of them,"

To everybody at Columbia Records, the development of the LP disc seems a long time ago, an event already obscured in the mists of history, which now are briefly and partially to be dispersed by the quick which (not to say hot breath) of the forthcoming tenth anniversary celebration. It was in June 1948 that Edward Wallerstein of Columbia announced to a skeptical press and a skittish public the successful man production of a microgroove phonograph record which would play forty-five minutes of music at a speed of 335 revolutions per minute Flanking Walferstein on one side, while he spoke, was a stack of conventional 78-rpm albums some eight feet high; on the other side was a pile of the new LPs fifteen inches high, Both contained in their grooves the same music. A picture of research director Peter Goklimark, standing before the tower of 73s and holding in his capable (and obviously strong) arms the 101 microgroove records which represented the same playing time, appeared the pest week in Life, and Columbia's long-playing record was fairly lainched.

The long-playing due was not a new idea, It had been attempted before, most notably in 1931, when

RCA Victor had actually produced and sold 335-rpm fine-groove recordings which played up to fourteen minutes per side (The grooves were half again as wide as those on Gokimark's L.P.) As Roland Celett wrote of Cohamble's new record in his book The Fabulous Phonograph, "Its sole originality lay in the fact that it worked." Because it worked-and because Columbia had thoughtfully designed a reproducing system to go with It-the new LP immediately commanded a market large enough to pay for improving it.

First LP recordings are rareties today, like first https:resions from old ongravings, but not so valuable. Somewhat more than a million diacs were pressed and sold in the first issue, all of them excased in blue and white paper envelopes which were known around Columbia as "tombstones" became of the classic pillers which formed a chaste frame for the inforuation about the record pristed inside. But those million, most of them worn to worthlessness now by instreatment from the ID-designed early two-speed record changers, form the entire stock of originals. When the time came to replace the stock, Columbia engineers remastered the lot.

For many of those first long-play discs were not, for fact, very good. Dr. Goldmack keeps in his office, in playable state, the very first LP reoved geoduced in his experimental laboratory, sisteen minutes' worth of the Tchafhovdsy Violin Concerto. He likes to play it once is a while, to show how had it was: "The violin," he says disgustedly, "bounds like a finte." Dr. Goldmark himself, it is believed by awestruck funiors who note his great confidence, his abropt gestures, his Olympion graft himper, may have apring full grown from the head of Minerya-but his inforegroove record was still only a baby when he introduced it.

No other infant of this breed over had Bred before,
and at its coterwanking birth it was hard to foresee what a fine handsome specimes: this one would become, or what enormous popularity it would achieve (today the LP accounts for more than half the money volume of the entire record husiness). All that was evident at the time was that the thing seemed to be failve, and that a three-years' labor had been necessary to bring it forth.

THE STORY really goes back to December 1939, and to chief recording engineer Vincent Liebler, a hig. cheerful man now in his early fifties, with a large, square face, and white hair for which the LP is in no unall part responsible. Lachler had been Columhis's clifel engineer for three years before CBS bought the then struggling company in 1935, but his experience had been mostly in popular music, since the old Columbia label had relied on European imports for its classical repertoirs. When work began on the latter, everyone felt that something better than the four-minute 78-rpm master disc would help with the results when, for histance, movements from an eatire symphony were to be recorded. At the end of 1932, the company hegan reconsting all its associous on standard-groove 335-rpss "master safeties," sitteen inches in diameter. During that first year the saleties were simply filed away after the session, and used only when repair work was measured on the 78s, By the end of 1940 all takes were factored on the 335 sisterninch discs, and then were transferred later to 78-com records.

Goddard Lieburson, now president of Columbia, then the recording director of the Masterworks Division, recalls with pleasure the new firshility offered by the sixteen-inch safeties. And when the LP came around, the master safeties gave the engineers a sound source with an unasually good signal-to-noise ratio from which to do their dubbing.

The existence of the large-diameter safeties was a source for reflection, from the start, "Long before the LP was even thought of," Liebler sity, "we were playing around with these safeties. No direction-past thinking about what could be doze. We converted twenty-five or thirty allouns into continuous play records, experimentally, getting about fifteen minutes a side." Dr. Coldmark also had been thinking along these lines for some time. At a meeting of the CBS (or parent) Buard the new concept was brought up and the project put on the coloridar.

Wat work delayed progress somewhat, but within a week after the Japanese surrender, the lab staff was hard at work on the LP "We hade't any of ga done any recording work herefore," Goldmark says. "That's why it wont so well: we didn't have any projudions. Really, it was a big help to mo-for a ensearch cogineer, a bright chap with a poor stormary is the best thing you can have. We didn't have any themary, we didn't know something had been tried and it didn't work, so we could just get on with the job at hand."



Recording South Pacific, find LP boot soller: Mory Morria, compaser Redgers, Esie Plaze, and Cohembia's Liebtrons.

Coldmark assigned individual researchers to individual problems-cutting-motor and stylus design. pickup design, turntable design, amplifier, radius equalization. The 335-rpm speed had been established helere work began, and it already had become clear that a very narrow groove, something like the .003inch gronve finally adopted, would be necessary to record referry-two minutes of music to a side. (The figure twenty-two had been decided on after an analysis of major evasionl compositions. Coldmark still has the charts, showing that 90% of all important symphonic works take less than forty-live number playing time.) The need for narrow gronves dictated a highly reallient material for the record (RSelf, because the effective tracking pressure of a small stylus on a narrow groove is far greater than the effective tracking pressure of a larger stylus point in a wicle groove. Research had already demonstrated that the laminated composition disc used by Columbia for standand records was not tough enough for LP duty; but vinylite, on which some delate 75-yea albums

Colombia's Rechman, CRS's Coldmarks the body was but a baby,



were already being pressed, was strong enough to handle the pressure.

Working with existing vinylite compounds and modifications of existing cutting lather, but with a cutting motor and stylus of their own devising, Goldmark's crew within three months had produced a serviceable microgroove record that would play up to sixteen minutes a side "Theu," Coldmark recalls, "we inched up, minute by minute. The whole thing was built of debris and failures, a tremendous amount of heartache. We worked from the 33-tim safety masters, checking back and forth constantly to be are we weren't losing quality. And since we had color TV on our necks all that time, this had to be a side project. A year before the formal anyonincement, nearly two years after we'd started, we had a second that gave twenty-two minutes of the same sound quality from start to finish."

THE DIFFICULTY that most sorely beset Coldmark and his assistants, and that continued after the introduction of the record, was that of increasing the playing time of the disc while retaining the high frequencies. The major contribution to the volution of this problem was made by William S. Bachman, a youngish apple-checked engineer with a hmed, quiet grin who came to Columbia at the end of 1945 to be the record con-pany's own director of research. Previously, he had worked for General Electric, and had designed the G. E. variable reluctance magnetic cartridge.

It was more difficult to cut high frequencies into an LP than a 78 for the simple reason that the record turned more slowly. Halfway through a 78-run record, approximately thirty-one inches of granve pass under the stylus each second; half-way through a 335-rpm record, roughly fourteen inches of genove gits below the stylus each second, If the same sesponse was to be attained, high-frequency growe modulations would have to be two and a quarter times finer in in LP than in a 78-rpm recheding, There was no difficulty in driving the critting stylus to perform such delicate work exactly as destied, but what issued from the groove when the cutting styles had finished was often inferior. If the cutting stylus was ground to ultimate sharpness at its edges, the resulting cut in the disc was, in Bachman's words, "grainy and noiry"; so the cutting edges had to be "dulled" And duller edges were unable to impart very high-frequency modulations to the grame.

During the thirty months between the first experimental record and the introduction of a commercial disc. Goldmark, Bachman, and their staffs worked on cutting-stylus geometry and improvements in visylite composinds, supplied by Union Carbide, until they had established the best compromise. Even after the first LPs came to market, Bachman continued his research. In 1949 he came up with the answer: a record-cutting process employing an incandescent stylus which cut by vaporization of the disc material, This stylus also eliminated and of the unisance problems in record-cutting: the "horn," a ridge thrown up along the outside edges of the groove when a cold stylus chisels its way through an acetate disc. "On the early LPs," Backman says, "the horn was often so firm you could get a stylus to trace between the groover, all the way to the center of the record, if you set it down wrong. It sounds awful, of course, but you do get a distorted echo of the music."

Through slight changes in cutting-stylus geometry and cutting-lathe design, and through improvements in viny-lite composition which permitted recording at lesser amplitudes, Goldmark and his crew brought the LP to the desired twenty-two minutes a side. Then early in 1948, Wallerstein informed Bachman that twenty-two minutes wasn't enough: among the early LP issues there would have to be an *Eroice*, and the first two movements of the *Eroice* ran twenty-nine minutes. There was nothing left for Bachman hut to find a new approach.

So he did.

Bachman's idea, later given the name "Variable Groove," was based on the fact that, at constant pitch, grooves must be spaced to accommodate the loudest signals, leaving more space than needed for quieter passages. The carriage which holds the cutting head and stylus runs radially above the acetate disc to be cut, and an independent motor drives it toward the center of the record. To assure the carriage's smooth motion, its christing motor is synchronous, with speed governed by the frequency of the alternating current on which it runs. Before Bachman came up with Variable Groove, progress had been at an even rate, leaving enough "land" hetween the grooves to assure separation of the horns and guagentee against echo in the loudest passages. Thus, considerable unnecessary "Lond" was left between the groover carrying softer music. Bochman decided to increase the LP's playing time by climinating this unneccessary land and using the precious space for more grooves.

At first, Veriable Groove was a handleraft operation. Bachman used a manually controlled oscillator for insertion between the house current and the synchronous motor that drove the carriage. Then be stationed an engineer who could read a score at the controls of the frequency oscillator. Wheneves the engineer saw a loud passage shoud, he turned the knob to increase the frequency of the current going to the motor, allowing more space between the growes, whenever he saw a soft passage in the works, he slowed the carringe to save space. "It wasn't really very difficult to design a machine which could take core of this problem automatically," Bachman says today; but, in fact, nearly three years elapsed between the day when the first hand-governed Variable Groove Eroios came off the lathe and the day when Bachman was sufficiently satisfied with late machins to permit its assumement by Columbia's press department. Constaurd on page 127

### by roland gelatt

ON A JUNE AFTERNOON IN 1948, Columbia Records summoned members of the press to a suite in the Walderf-Astoria and affectally unveiled the long-playing microgroove disc. I wish I could say that I forefaw on that excasion all the consequences of the next decade. But I didn't. And I doubt that anyone else in that crowded room did esther-not even Ted Wallerstein of Columbia, or Jimmy Carmine of Philco, who was to manufacture the Columbia 33 record player, or the other executives assembled there to sound the LPs praise. We all realized that an important new product had been developed. We could see that it would introduce some changes in the second industry. But the two dozen versions of Scheherezade? The sale of 200,000 Beetheven Ninthe? The complete organ literature of Bach? The three hundred record labels? The emergence of a large high-fidelity industry? A billion dollars a year spent on records and equipment? Surely 00 one at that unveiling a decade ago had the preschence and effrontery to imagine all this.

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But I do not intend to celebrate here the LI's glory. This has been amply done already. Jacques Barzam has told us that "it marks an opach in Western intellectual history." He observes that "the whole literature of one of the arts has sprung into being" and likens the phenomenon to "the Renaissance rediscovering the ancient classics and holding them fast by means of the printing press." And he is right. The LP is a marvel and a solace. But it is not a spotless paragon. There are two sides to every record. Permit me, one of the earliest eneverts to LP, to examine a few of its defaults.

Perhaps the gravest charge to be leveled at the LP record is that it has stimulated a complements decline of attention. We no longer listen to records with our former devotion and absorption. We have, poor Diana Barrymore, hem given too much too soon. Our receptivity has been dulled by a glot of merchandlise. I am writing this orticle after having lutaned on successive evenings to new recordings of La Sonnambula and Dar Rosenbacatier, each of them a distinguished musical re-creation. Two docades ago, either of these sets would have constituted the chief opens true of an entire season. We would have had months to savor it without competition; indeed. it is very possible that we would have adquired it in finitalliments, act by act, to spread the expense. Today the two operas are probler in an avalanches We have no sooner successibled to their delights than our attention is diverted by first recordings of Gogesons and Arabella, new versions of Tosca and Fiddia.

A STRONG-MINDED man can of course, while stand the temptation of onneworcus listening. But does he? I remember when Columbia toxid Allam Borg's Violus Concerts, played by Lunds Krasner and the Cleveland Orchestra under Rodzinski. It was then, circa 1940, the only twelve-trace compraition to be found on clomestic records, and it taught a whole generation of young hateness to appreciate the strange beauty and communicative power of a new mutical language. We learned three sty fostwhate sides by beart. Today the young perion interested in the twelve-tone tillion has dearess to the complete works of Anton Webern in one altrumeight LP sides, well over three hours of difficult listening. I do not wish to deprecate any undertaking as idealistic and archous as the Webern album must have been in conception and execution. I metebquestion whether the thirty-three works it contains are being as theroughly ingested as was the single concerto in the more leaunely days of 78 rpm.

At this point someone may possibly object that I view the current deluge of records from a predleged and untypical standpoint. "After all," a skeptic could protest, "you as a professional record reviewer are naturally awamped with new reisones. The onlinury buyer does not have your good back-or, if you will, your minfortume. Its pays, you know, come of this realize for his records." There is a grain of truth in this demorrer, but only a grain, for 1 have watched my friends buy and listen to LP records, and 1 know that their attention to recorded music has suffered appreciably from an embarrassment of riches. Their purchases may not equal my shipments of review records, but they do pretty well for themselves nonetheles. These days it is not unusual for an active record collector to take home a dozen new issues a month.

This leads me to a somewhat Philistine comparison. You can buy two Mozart plano enserting on LP for the price of a dinner in a not very famey restaurant. Twenty years ago you could have enjoyed ten dinners at the same restaurant for the cost of those two concertos on 78-rpm records. Do not for a shomest imagine that I bewall the cheapness of LPs. I revel in it. But I am not intensible to the consequences. Record huying is a for more causal affair now than it was in pre-LP days. A main of moderate increase con on impulse acquire two or three recorded symphetiles without services inmade on his weekly hudget. This is undoubtedly all to the good, but it makes the recordit theorembers (thistilizably loss charished objects.

The old records were not only expensive; they also had to be changed every four minutes, either by hand or by an automatic changer. Most people who valued their brittle shellac records preferred in change by hand. This was a great nutrance, and the incessant stops and starts aeriously interrupted musical continuity. The finit-minute side did, however, prevent dozing. It was the LP that spawned the recorded sleeping pill-"Revertes for Languid Locers." "Melothet for a Lary Afternoon," and the like. Records at 78 run demanded attention. The dam things kept ending, and you kept jumping up til turn them over. After a while, you memorized all the breaks in a symphony or opera, learned just when to get up so as to reach the turntable precisely as the music stopped. The breaks became mileposts. as it were; they told the listency, emharked on a long musical journey, just where he was. (As soon at Rodolfo's manuscript catches fire at the beginning of La Rohime, I know that it is time to get up and unsheathe Side 2.) The sense of form imposed by four-minute records year unquestionably specious; [ should not want to have to defend it before a jury of municologists. But this I will says the necessity of changing records kept, the muscles active and the responses alert. And you value what you have to work for.

Moreover, the four-outpute side was by no means, always port of an extended, composition. Thoseandof complete selections, believe it or not, fitted anuwithin its temporal bounds. And how stimulating was to choose a program from among these bree treasured One didn't have to endure the same sloger.

the same conductor, or the same instrumentalist for half an hours neither was it obligatory to stick to the same composer. One simply made a collation of quick delicacies. The program might open with Beecham conducting the Nozze di Figuro Overtuze, continue with Munio's "Addio del passoto" irom Tracinta, then Linzi's Gnomenreigen played by Rachmaninoff, Wolf's Herr, was tragt aing by Mo-Cormack, Kretaler's Courses ofennous as only he could play it, and Foure's Clair de lune ung by Ninon Vallin, before concluding-herely twenty munites later-with the Midsummer Night's Dream Scheren conducted by Townson. (Does the program seem. heiter-skelter? So be R. I shall willingly argue fts merits with anyone.) We have, in short, lost the pleasure of three or four minutes of concentrated delight. The norm is now a half hour, which is line for a symphony but ill-suited to the moreory.

The LP recital offers a poor substitute for our former miscellanies of short-playing discs. To begin with, the program is not our own; it is the record maker's. And it is usually of varying appeal; not all fitteen selections are going to lat the buil's eye. Of course, one still can pick and choose. A little song called *Hableme de smores* as sung by Victoria de les Angeles and accompanied by Ceraki Menre never fails to cuchant me. It is on Bund 8 of Side 4 (the "filler" side) of the siltum containing Falls's Vide breve, and occasionally I play just this me band (If J can sumage to locate it in a denly lik room). But the usual procedure with a recital on LP is to start at the beginning and let it spin. By the end we have often had too much of a good thing.

Completeness is a virtue sometimes overreted. One of my favorite records is an old teo-meh IIMV whereon John Gielgnd and Edith Evans (neither Sir nor Dame when it was made) play a delicious scene from The Importance of Being Earnest. It concerns the suitability of Mr. Worthing as a prospective son-in-law of Lady Brachnell's, and it is the very epitnme of Wildean wit emmested with mosterly polish and style. Since then Sir John and Dame Edith have recorded the entire play ("complete on two LPP"). I confest, though, that I continue to play the old 78-spen excerpt, mit hereisse the scene is any better performed therein, but bocutuse it satisfies my craving for high convedy in his sparkling minutes.

So far I have examined the LP record solely from the listener's standpoint. What of the performer? He has, of course, profited tremendously from R-in dollars and cents. More musicians are making more records and collecting more royalifes than ever hefore. Brown for that. But let's give only two cheers is a medium that has enouraged so unsets shothly workmanship. Too many musicians have recorded music for which they manifest scant affinity, merely it) satisfy a company's craving for repertoire. Even interpreters of great and justified renoves have been persuaded to swim far beyond their depth; for example Walter Giesching, whose eleven-L.P alloum of Mozart's sole plano messic gave an impression of not particularly impired sight-reading. Almon Chastas is elequent on this point in his recent book Speaking of Pienstiz. "Great artists are great in what they choose to do," he writes, "not in what they are sometimes enerced and sectored into during under the undermining influences of a dynamic economy"; and he imments the spectacle of artists "prodded and instigated to recerd works they do not respect or have not digested, and oven works they have no husiness playing."

A mudgian imperfectly equipped for the task at hand can, to be sure, overcome certain mechanical problems by taping a pleos a number of times; afterward a reasonably note-perfect compastie can he made of the hest moments from each "take." But does anybody imagine that this artificial tape-splicing results in a truly convencing performance? The LP record ought not to be saddled with the malefactions of magnetic tape, but the two developments matured simultaneously, and it is difficult now to think of one without the other. Had it not been for the case and relative cheapness of tape recording. the proliferation of LP records would have proceeded at a considerably slower tempo. To bemoan that case and cheepness would be abourd. Besides, the adaptability of tape to the bits-and-patches method of taking down a performance does not mean that the new medium necessarily has to be so used. Any veterin recording artist will confirm that the challenge of the unpatchable was blank stimulated a musician to do his utmost, and today more and more performers in the recording studio are getting away from the 'we can repair it later" philosophy in favor of a return to the old principles.

I should not wish to imply that every Thrpm record perpetuated a mature and profound performance. Lord moves there were some frightful dusle in pre-LP days. Neither do I wish to imply that all of inday's LPs are hastily or careleasly executed. Beecham, Horowitz, Landowska, and their like continue to make records in the old intransignit manner. What can be naid, I believe, is that the LP record has assailed our ears with a dispopurtionate number of indifferent performances. The kind of atmless interpretation that comes off the top of a immiscient's head is more prevalent on records now than fit was twenty years ago.

NOWADAYS, too, young musicisms are not given a chance to grow up. A dozen powerful record companies constantly are competing one against another in an international talent hunt, and no missician is left undiscovered. The case of a Flagstad, who had been stoging in relative obscurity for two decoder before she burst into workl celebrity at the age of forty, would Continued on page 131

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# SNARK SPOOR

... A witty Briton wonders if high fidality is not, after all, an impossibility. COMING EVENTS cast their shadows before, and even Shakespeare guessed at our advent. "Desiring this man's art, and that man's scope" said ha, and followed it up in the next lines "With what I most enjoy contented least." Well, that's a lair enough description of the hi-fi cotorio, the most art-loving of us fixing glazed eyes on our impes, and never happy usless we can produce more waits or a wider response than we did last week.

We imagine that all we want is hetter reproduction, music more like the real thing in our homes, but we spend a great deal more time listening to what the music sounds like than to the music Reelf. This attitude han't been discouraged by the engineeries side of the profession, either, with the result that, singly the war, objective demands in amplifier design have far outpaced the subjective requirements, the anal essentials of sound reproduction tending to be awaraped by the nicetics of engineering systems. Speaking as both a professional engineer and a professional planist, I would say that the substitution of one designer per laboratory by a tame musician might be a worthwhile innovation.

There are certain tencts held by the audio sodality; a sort of shorter catechism of high, knowledge of and blind obedience to which are the basic minima for admission to the faith. The most important are the Four Freedoms: freedom from unintentional departures from straight-line response, freedom from harmonie additions, freedom from intermedulation products, and freedom from phase distortion. An enormous industry has grown around the dogma, with a great deal of sincere belief and bright advertising copy bringing the articles of faith to the world in general, and to the hill fan in particular, Amplifier A, designed by B, is, this year, the one most free from the dreadful sins mentioned. I shall quote: "the performance of this ... amplifier reaches so high a standard that it is milikely to be surpressed in the future." For the record, that statement was made in 1934, and it was made by no less an authority than Wireless World, The response at 4 watts was about ±4 db from 20 cps to 10 ke; and the point was made sthat phase distortion is "of little moment in sound reproduction"-a point not wildly original, as almost every physicist of note already had assorted the same thing.

The Wireless World figures began to look a little neanderthal when in 1947, D. T. N. Williamson published a real shocker, the circuit to end all circults. The figures were nothing short of miraculous, and it sounded pretty good, too Again we had an amplifier that was unlikely to be surpassed in the future. In 1949 a certain colligate authority, describing a near-original version, stated that at ordinary groom-volume powers the intermodulation distortion figure was less than 0.2%; it was also said that 12 watts is more than enough for home volume levels, even with a 10 db safety inclos-certainly not negligible. (All these figures are worth remembering, for we are now embarked on an important enterprise, the Hunting of the Snark, Readers who know their Lewis Carroll, and remember the last line, can quilt liere. They know what I not notting at.)

Well, time does march on, and by 1951 the Williamson apparently was not quite the paragen it was apposed to be. Some more advanced sort of amplifier seemed called for. The Ultra-Linear circuit was introduced, infusing fresh bload toto the pack and sending the Snärk slinking into the nearest covert, tail well down. In July of 1952 the originators of the circuit published their findings; one of their remarks was that, up to about 7 watts, there was very little difference in intermodulation distortion between the Williamson and U-L amplifierg. There appeared to he to advantage in making use of the latter under denestic conditions. But the Snark reared his ugly hose again, for we were informed, at the same time,

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that people who had lived with the new amplifier for several weeks in ordinary apartment-bouse living cooms were convinced that it sounded botter than the old at all levels. It was about then, too, that power requirements began to assume megalocephalic tendencies, for within a few months it had crept (or rather, galloped) up to 100 watts. At least, so our authority asserted and proved by figures. He asserted something else, too. He said that the 100-watter, which distorted more at 10 watts than did the 12watter, added immeasurably to the performance of a 10-watt speaker! (The Snark was certainly well ahead by now.)

He gained a field or two in the matter of equalization as well. To quote again from the Wireless World. articles "Phase distortion . . . is at a minimum when frequency "distortion is at a minimum." There is a natural corollary, which substitutes "intaximum" for "minimum." Now, frequency distortion is forced out us by the sheer mechanics of recording, both when cutting and when reproducing. What happened to the acticles of faith here is embarrassing to mentionanyway, they don't seem to have been seriously inwoked. This is where we engineers gave ourselves givay most, because with he without benefit al ulide rules, we couldn't make up our minds. Witness the kalekloscopic scroll of equilizations, RCA 78, FPRR, Col LP, old AES, NARTB, RIAA, Uncle Tom Cobley, and all. And then, for good measure, lot us quote from Harold Loak's little "Varialope II" Instruction leadet: "If the record-maker's ... stated characteristic appears on the input selector, switch accordingly and proceed as above. But you may well find that you prefer an FFHR record played on mother marking!

And now the engineers and advertising boys area away again, this time alter a hydra-headed Snark, stereo. Up goes the hunt, with matched gain controls, matched tone controls, matched amplifiers, matched speakers; but, so far, no tallyho for matched cars, matched walls, matched reverberation periods. What nonsense all this is! What are the separate channels ultimately to be matched to? The listener's cars? If these, we are in a bad way, for his ears at a live performance would needs be where the microphones are, and even an audio engineer's cars aren'n that long! (Anyway, most individuals' cars differ markedly from each other, left from right.) Even so, who decides on the microphone placing? Is there any objective criterion of microphone placing? There should be, we're pantifical onough alanut the rest. But the miscrable much is, we don't know even now, VU meters of al., where to stick the things even in familiar surroundings. I have had the honor of being it guest mandst, on many occasions, with what probably is the most popular small ensomble in British broadcasting, buy at every reheats al there is the peripatetic rite of adjusting microphones, a placing here and a placing thera, too much plano, too much bass, too much treble, not enough middle considering my girth, a palpable

misstatement-piano lid up, lid down, until one grows cross-eyed is an attempt to follow the dizzying ballet of halance men. How cold, how faint facles the Snark, how phantom the hunt, how quiet the brazen horn, when we approach the lair, the real heres of the animali Where the assurance, the brave call, the confident swagger, the banner with its rippling sizes? What, no objective theory of placement? Fie on you, you engineers, you mathematicizins, you analysts!

Let us reserve judgment, however, until we find out a little about the actual tools of the trade. The chief Snark-hunting hound is, in this context, a device by the revolting name of the "linear partial differential equations." This is a quite ubiquitous heast, and R pokes its beak into almost all engineering problems concerned with regularly recurring events, including ours. It is an analytical tool of amazing power, particularly in the consideration of idealized wave forms, which may be of any sort: continuous, discontinuous, or half-and half. (To jog your memory, an example of a continuous wave form is our old friend the sinc wave, while the more exeteric square wave is clisconthuous.) Well, this may he as is, but how many natural occurrences are sine or square or even harpburger-shaped? Come to think of it, there are comperstively few, some of the more obvious being well known to dynamo designers.

Of course, we represent periodic phenomena by a graph shaped to a conventional "wave form," but that's merely a convenience for which, epistemp, ingically, there's not much justification. As Eric Temple Bell says in Mathematics, Queen and Servant of Sciences "A 'wave' to a mathematician is mually notiing more than a conventiont term for describing the periodic character of cortain functions obtained as solutions of differential equations." But this is preclocky where we mistake the shadow for the substance, where the designer gets carried away by the exuberance of his own verbonity, and the manufacturer with him. Let us look at a scope pattern, a very simple one, that of an ordinary sine wave. We will take as its source a tuning fork maintained in vibration, the around from which is picked up by a microphone. led into an amplifier, and passed on to the scope. There it is, for all to see, glowing vivid green on a gray ground, a pure unadulterated size wave, nothing



more, nothing less. But, looked at a httle critically, is it? Or is it perhaps a volumeter using light instead of a needle, displaying variations in voltage against a moving datum line? Because that's all it is. All we do is plot, on a straightforward map grid, and is two dimensions only, these variations. "But," you say, "surely this is a play upon words, a quibble." Don't you believe it, it's nothing but the truth, and things are no arranged only for convenience in analysis. Square, up-and-down, Chinese, whether electrically or mechanically, all we're doing to drawing graphs in two, and only two dimensions.

I'm prepared to stick my nack out by suggesting that engineers are a narrow-minded fraternity, so obtine that they persistently refuse to believe the evidence of their own senses. It's a result of their training, which often neglects to insist that, in a real world, it is blewed to receive as well as to give. In a word, there is the little matter of sensation as well as of attantiation to be considered, and neglect of this half of the job is possible only at peril. Of course, it may he the result of nothing more than academic mularity; but it is not altogether impossible that it's due to the choice of the wrong tools, or perhaps even mahility to use the right ones. Many advanced investigations into systems of three dimensions require analysis in four; linear equations ignore, generally, subtleties of sensation, for which tensors are an almost indispensable discipline, while many nonlinear equations are often so difficult and labyrinthine in texture that they have had to await modern computing machines for solution. So it is perhaps not too functful to suspect this tools and their handling when considering why investigation into the general laws of sound has been confined, in its analytic aspects, mainly to propagative phenomena.

Another mental fault to my profession is its inconsinchey. Hi-h is, prenunably, the reproducting of sounds, in chosen surroundings, to as near the original at possible. Yet we find so skeptical and clear-headed a writer as Norman Crowhurst saying, apropos bidirectional microphones, in one of his latest books, "Per nrchestral music one or more of these microphones can be judiciously placed among the musicians, arranging the field pattern so that the weaker instruments are in the directions of strong pickup while the powerful instruments, which want tuning down, are placed in the position of minimum pickup." Here is fake with a vengeance, for the listener at the enacert con't arrange his cars etc., etc. Neither will he with to, his standard being the real thing, hi-h in the taw.

This is no isolated instance of faconsistency: examples occur in article after article, in book after back. The source is this particular instance is unlikely, that's all. And when we come to the blinders by sciencewell, we are uway. The sort of thing is exemplified in a recent article in a popular publication, where praises of the londness control, as against the more usual tono and volume controls, are pressed. The anthor states that the ears aren't good enough to judge what the sounds should be like, only the loudness control is accurate enough! Lord help us, where are we getting to? Not Snark, nor fowl, nor even good red herring-but only the White Knight who was 'thinking of a plan to dye one's whiskers green/And always use so large a fan/That they could not been seen."

Let us consider another bit of science blinding in an even more recent article. The author, describing, his transferor phono preamplifier, giver a list of the requirements to be satisfied by such a unit. With much of the list it is impossible to disagree, but one of the sections functifies the most vitoperative invegtive. It demands that the frequency response must he linear from 10 cps to 40,000 cpr. Here is all the old gobbledegook agam, if ever insubers meant nothing at all, this is the place, "Must be linear from 10 cms to 40,000 cps." What on earth far? How many records. go helow 45 cps or above 13,000 cps? Yes, I know, I know, they all do, or so say the malers. But we're too old to believe in fairies at the hottom of the garden. and salt is one of our staple commodities. Any commercial record with a range exceeding 50 to 11,000 cps is a prize above rubies, and a speaker or combination which does hetter than a genuine, linear 40 to 15,000 cps is equally rare. We go to a int of trouble to eliminate response below 30 cps, to avaid anotor rumble; anything above 13 he on a record is apt to he nothing but a generator of IM noise; and yet we have the desideratum of 10 to 40,000 cps thrust at m. This author does even herter, too, for he tells us later that the response is less than 2 db down at 10 and 75,000 cps! Blinding with science, did J say? Bludgonning with it, rather, and we all seem to be torred with the same brush. I proudly advertise a final ampliher that goes up to 60,000 cps, but the darn thing sounds just as good-or had-of it is arranged to cut off at 15,000 cps, as required by certain hubitrial cantomers.

And what about the loudspeaker manufacturers and designed? None of their products adds any dialect. No, perhaps not. But that docun't explain why the best hi-fi dealers have whole batteries of spettlers lated up, each available for selection at the turn of a switch. If they are all that's claimed for them, how can there be any choice to the matter? They don't add any coloration of their own, so they many and takes yer choice, for they all sound different, car from the other. Indeed, it's the sort of secure where only an idited remain same!

Here I would like to add an anecdote of my own to the collection. In the summer of 1951, following up a customer's inquiry. I called on the maker of a imach-advertised loudspeaker. (No, it was not Mr. Briggs.) He very kindly gave me a demonstration of his equipment, the most noticeable feature of which was excessive high-frequency response. Whiskers were everywhere, strings sounded like andpaper, brass like steam whistles, percussion was a



surrealist dream, and plano a bonky-took nightmare, When I remarked on what I innocently considered were faults, I was scornfully informed that 'you engineers are an med to 'mellow' tones that you can't appreciate the real thing when you hear IL. You should learn to train your ears!" I hadn't time to discuss the matter further, as I was almost late for another appointment—at the BBC, where I was booked for a binadeast; but I sincorely hope that the planp I used (fit was a luncious new nine-face Steinway) didn't sound like the hf-fit spectnep]

It's worthwhile returning to the question of reproduction as near the original as possible, Actually, the usual definition of hd-ft, by its exponents at least, is the illusion of being in one's favorite seat in the concert hall, although it is possible to recall certain advertisements that improve coulderably on this far from andrest clubra. But whose favorite scat? Yours, five rowe back and at the right, or mine, at the reat of the hall, plumb center? How can the microphones, control engineers and all, pick up at one and the same time two such contrasting sound patterns? Granting the miracle, and the two or three others required to bring the right sounds to your room and mine, how are we going to overcome the basic mechanics of the systems, the rotio of any more length to the size of the rooms? That's one problem to which there is no solution, Turn down the gain, twist the presence control, adjust the intensity to precisely the figure obtaining in the auditorium; have out such little things as room) characteristics, reverberation times, standing-wave patterns, psychological attitudes, still the inexorable mathematics of the matter, that a quart would go into a pint pot, drops the curtain on any genuine realism. You must accept the fact that what you hear is a noise coming from a hole in a him, and that there's as far as you will ever get. As an experienced and accommodating latence, you will certainly mentally provide much of the gilt missing from the gangerbread, first as you will provide the atmosphere missing from a photograph of a wellloved object. But it still won't be the real thing or mything like it. No one is going to tell me that a photo of Marthu Monroe is a reasonable substitute for M. M. herself-even I, with one foot in the grave and the other Configured on page 193



these men shape your listening

### by Hollis Alpert

WALTER LEGGE, who handles some of the principal artist and repertoire functions for EMI (the British combine that issues Angel and HMV records, among others) is firmly convinced that phonograph records represent the most important means of musical communication today. When I most him recently at Kingaway Hall, in London, he was supervising the premiser recording of a Richard Strauss opera, Capriccio, a work that Legge feels will come into its own through the electronic mediam. "We are doing it," he said, during a hall in the sension, "hecause it is a masterpiece, and will eventually rank with the three greatest Strauss operas, and because we have a first-rate cast to do it with. It would be raticelous to perform it any other way." We were in an office in the rear of the hall Legge gestured broadly towards the hall itself, where the cast of singers and the Philharmonia Orchestra were assembled. "Out there," he said, "are the most important: stars of German opers."

Much of the day-to-day work of the chapsical a a r director & involved with the reconding of new versions of standard repertaire, but whichever company he represents he is usually on the lookout for the chance to do something different-especially if it appears there will be a reatonable return on the company's time and money. The musicallyminded public sometimes responds nobly to a new repertoire challenge. Bare Bach and Vivalid has found enough of an audience to make it commercially feasible to produce. Two years ago Logga produced the lint recording of another rarely performed Strauss opera, Ariadas and Nasco; it was met with both critical accluim and a strable throug of purchasers

The producers of classical record all ums are sadly unsung in comparison with their counterparts in the fields of movies, theater, and public music making, although their cultural contributions are certahily as extensive. But among other professionals of the recording industry Leggo's reputation is very high. When he reconcled Angels. The Alerry Widour four years ago, his colleagues were willing to regard the result of something of a coup. That supposedly hackneyed operatia had its reputation seturbahed when Leggs recorded it with fine operatic voices, including that of Elizabeth Schwarzkopf (his wife), and the golden sound of the Philharmonia Orchestra-a now famous ememble that Legge created more or less as a hobby some twelve years ago.

The groundwork for projects like Capriccio requires many months of work, much of it devoted to rounding up the appropriate musical forces and fixing on the time when all can be assembled in the same place. "We wanted a goklen cast for Arisine," Legge said. "Schwarzhopf, Seefried, Shock. Van Karajan. For Capricele we have attembled an equally important group-Schwarzhopf, Gedda, Fischer-Dieukan, Hotter."

Legge's experience in the recording world goes back twenty-seven years, but he claims

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his entire life has been spent in the company of a phonograph. The day he was been his father celebrated by buying a talking machine for the household. "I learned to read from record labels," Legge said Early in his career he began pioneering. It was he who first brought to record listeners the major works of Sthelius, and he also helped rediscover for us the works of Hugo Wolf. The first limited editions club, hegan by Legge, was devoted to that compaser: And he helped beat the drum in Europe for the hand of orghestral snund Stokowski was achieving in Philadelphia.

"You have no idea what those first opalent Stokowski recordings did to in here," he sold. "Every conductor on the Continent tried to make sounds like that in the concert hall. They know what they were hearing without the help of wide-range equipment."

The score of Capricoto was on a desk in front of him as we spalle, A take began and ended, and shortly afterwards the stars of German opera came into the office from the unpretentions-not to say dingy-hall outside. They grouped themselves around the desk while an engineer played the tape back. Suddenly the faces of Schwarzkopf, Godda, Fischer-Dieskau, Hotter (and Wolfgang Sawallisch, the conductor) were alive with surprise, chagrin, ampsoment, dismay. "There is no doubt about it," Legge announced. "The microphone is better in the far postion." It was agreed.

"Another thing," he and. "You will notice that Hotter is too loud all the way through " Vigorous noddings of heads. Hotter, two, modeled his head. The group left the room and returned to their orthic chores in the hall. Through the monitoring speaker came the music again. The sound was rich<sub>i</sub> and exciting, Legge nodded his head as he studied the score through horn-musiced glasses and smoked a cigarette. The relevanhous was in the right position and Hotter was not too loud this time.

"We will stop for lunch," Legge said to the enginear. He turned to me for a list word, "New reprtoire in recording to a relatively spontaneous thing, a matter not only of what one finds, but what one can do. Without Christoff we would not have dong Boris Godamoo. With Gedda, the way to light opera was cleared. With Callas we open the Bellind operas to fuller public gaze." Musicians were placing their instruments in cases as we left the hall. Couriscio would restune after lunch.

THERE ARE only from record companies in the United States that produce classical authestral music with full-sized American orchestran. One of these is Capitol, a firm rooted as much on the West Coast as on the East, which is held as an American subsidiary by EMI. Under contract to it are the Pittsburgh and Los Angeles Orchestras, the Roger Wagner Chorale, the Hollywood String Quartet, and several front-rank conductors and soldits, including Leopold Stolbowski, who recently joined the Capitol stable. One can say this imposing array of forces had its beginnings in 1943, when Capitol brought out a "pop" hit called *Cour-Cour Boogie*, a record that helped propel the company into its present major status.

In 1945, Glenn Wallochs, the president, felt it was time to add prestige to the label with a classical catalogue, and an agreement was entered into with Telefunken-German classical masters in return for Continental distribution rights to Capitol's pop hills. But the flow of German records was too slow and sparse, and Capitol began its program of American recording. The first stall-man to come up with a record was Richard Jones, a munical director for the company, who recorded a "first"-Bartók's Music for Strings, Percussion, and Celaste. This was a hold stroke indeed for a company based on pop records, but the ten-inch disc sold surprisingly well, and though followed by several competing versions, still reminings to the catalogue.

The a & r director now for all Capitol allums is Francis M. Scott III, who bases himself mainly on the West Caust, where Capitol door more recording than any other company. On the East Coast Richard Jones supplements his functions, handling artists, pre-



Francis M. Scatt III



Maynord and Seymour Solumon



Richard Juno?

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siding at recording sessions, and making repertoire suggestions. All classical ventures must be approved not only by Scott, but by a committee representing repertoire, sales, and promotional functions. "My higgest role," Scott said, "seems to be to needle people into making things that will sell. I turn green when a suggestion for doing Palestrina comes up, but I console myself by remembering that two or three La Donzas generally straighten things out."

Capitol is one of the companies that never has hesitated to cater to the high-fidelity boom. When The Pittshurgh Symphony was acquired in 1951, along with its conductor William Steinberg, fi-fanciers were quick to discern in their first recordings an obvious concern over exactitude in matters sonic, and formed a solid corps of FDS-buyers. Scott claims there is no special secret involved in the FDS (Full Dimensional Sound) technique. "Just care," he said, "and good cars."

As a young and aggressive company, Capitol attracted several name artists, who appreciated the large and effective sales organization, and the lack of competing names on the same roster. The biggest fish was landed in 1956, when Stokowski became a Capitol artist, "We immediately int down," Scott said, "and tried to figure out what to do with him." Scott himself came up with the first idea, an album called The Orchestra, in which each instrumental section would have a chance to display itself-strings; Barher's Adagio for Strings; percussion; Farberman's Evolution; and so forth. The packaging was special, an explanatory text was included with the alloun; or the cover was Stokowski's famous head and hand? The prices premiums The a & r man is expected to come up with ideas of this sort, and what might be termed the "gimmicky" approach tisually pays dividends. Capitol's first Stokowski albian has proved a huge success.

Stokowski lins available to him the services of the Houston Symphony Orchestra, but his first recording was done with a "pick-up" orchestra. Scott, incidents ally, is quick to howall the connotations of that figure of speech. "The pick-up orthestra can be a virtuoso aggregation-and in this case it was. The musiclass were all first and accoud chair men from the New York Philharmonic, the Sympliany in the Air, and network prehestras; 15 is true that an orchestra not used to playing as a ante can have some disalwantages, but with a Stakowski the disativablages, don't revise." The actual recording was done in the hallroom of the Riverside Plaza Flotel in New York? South shrugged. "It seems to be an usion of this protession that the places which record hest look just terrible."

ONE of the most thriving of the smaller record companies to Vox, brain child of George Mendelssohn, a Hungarian-born New Yorker who likes to live in Paris, who once sold tractors in Buckapest, and who is phonomenal at selling records. The firm was organized in 1945; Mendelssohn's activities in Europe have made deep inroads into the German and French markets; slightly less than half of the firm's sales come from the American continent. The American end, in the a & r sphere, is largely run by Ward Botsford, a twenty-nine-year-old who has an enormous affection for baroque music, but who lately found time to produce a documentary album about the Air Porce, a job which required his pushing through the sound barrier in a Super-Sabre jet. His engineer refused the assignment, so Botsford took the tape recorder aloft himself.

George Méndelssohn claims for Von the distinction of having more pre-Mozart music in its catalogue than any other company, and he has visions of eventually recording the complete concertos of Vivgidi, an undertaking of imposing propartions when one considers the fact that the Italian master wrote ninety-five for the bassoon alone. "Naturally," Botsford said, "as a small company we stay off the heaten path, but we by no means merely include our own tastes. Ever since we did our first Vivaldi recording-the Gloria Mass-we have found a ready public for his music."

When a company like Vox forges into rarely tradden fields of repertoire it both meets a demand on the part of today's sophisticated musical public and at the same time protects its tuneful wares against competition. "We spend a lot of time," Botsford said; searching for, accumulating, and copying manuscripts: There's little likelihood another company would be willing to duplicate this amount of time and efforty especially if we're out first with the music." Vox already has five three-record sets of Vivaldi in its catalogue, good sellers all, and it is also possible to sample, through Vox records, the music of Locatelli, Gabrieli, Corelli, and Torelli, played by such ensembles as the Pro Musica String Orchestra of Stuttgart, and the Virtuosi di Milano.

A rather far cry from the above is the "Spotlight Series" initiated by Botsford. He originally, conocived the idea as a sort of "gimmick" record mainly aimed at hi-fi fans. The first record (and at that time the only projected one) was to explore and demonstrate the range (including frequency range) of some sixty percession instruments. To provide focus, a chronological approach was used, and a narration added, as well as some printed exploratory material. Botsford found himself involved in an endowor that was gradually turning, because of the time consumed, and the research, into a labor of form-and of scholarship:

When the recent appeared it was greeted with praise for its musical and educational values-the sound, though excellent, got lost in the shuffle. Nextcame other "Spotlights"-on brass, keyboard, strings, and wood winds. Museums were ransacked for ancient instruments, from the built rearcr to the trainbamarina. Botsford, whose clarinet-playing and recordcollecting prodivities had led him to neglect his formal education, found himself fast becoming an au-

thorizy on uncient and modern instruments. It is not improbable that certain modern composers, hearing a bull marer and a trombs marine for the first time through Botsford's efforts, may get some ideas.

LACK of academic training has not held Remy Farhas back, either. He is director of a & r in America for London Records, and began his career in the record hutfness twenty-five years ago. Then thirteensomething of a prodigy, he had completed his secondary education at this age-he took a job as delivery hoy for a record shop, inevitably, he became a collector as well. Seven years later, he was an unchaputed authority, and naturally was given charge of an imported-record department in New York's Liberty Music Shop. In 1945 he began a series of hroadcasts over WOXR, New York, the oldest of all "good music stations," called "Record Barlines." All the recards played came from his own collection.

Shortly afterward, E. R. Lewis, president of London Records (English Decce), preparing to invade this country's markets with some stunning sounding 78s-the famous "firr" line-onet Farkas in the Liberty Music Shop and offered him his present position. Farkas accepted. The job led him, inducetly, into holy matrimony. While trying to persuade tenor Guiseppe di Stefano to work exclusively for London (an unsutcentful attempt) he met Di Stefano's sinter-in-law. They now have two children. And, last year, Di Stelano became a member of the London family, too.

Farkas once had ambitions for an operatic career, but the lack of an "Er" (full-frequency-range) voice proved too much of an obstacle. However, his feeling for opera has kel to London's notable concentration on the form. Farkas would rather listen to a new singer than cut. Those he hives best he tries to sign for London. The artist list convently contains such names as Tehaldi, Del Monaco, Gueden, Siepi, and Corquetti. One of Farkas' responsibilities is to list the suggested repertoirs for the coming year. Each November he fires to Europe, and a committee makes final decisions on what to record. The decisions are usually based on trends in public taste. On this committee are Maurice Rosengarten, who is director of

the company for central Europe, musical directors John Culdaw and James Walker, Fackas, and Lewis. Rosengarten controls the purse strings for the company, and his financial blessing must be won before the gp-shead is given a project.

One London project is in the nature of an investment in future musical glory. Seasonally, for several years, John Colshaw has gone to Bayrouth, in the hope of recording eventually a complete Waguer Ring It has abcady been recorded complete four times, but the masic will not be issued until Culshow is completely satisfied with the results. Oddly, this past summer Culshaw got what he regards as the high point of his recording career, and it is part of the Ring-but not from Bayreath. Instead & is a Vienna-made third act of Die Wolkure, starring Kirsten Flagstad. The D'Oyly Carts Company's rerecording of its Gilbert and Sullivan repertoire, too, now is well under way, according to Farkas. "The old recordings." be said, "are beginning to sound technically out-ofdates" London, after all, has its reputation for far sound to consider.

SEYMOUR AND MAYNARD SOLOMON, thirtyfive and twenty-serven respectively, are the heads of the thriving Vanguard Recording Society, a so-called small firm that issues between fifty and seventy-five releases a year, has a recording studio in Vienna, is planning its own building-complete with recording studio-in New York, and does a heavy volume at foreign as well as domestic husiness. The beginnings of this activity took place seven years ago, when Seymour Solomon, fresh out of N.Y.U. Graduate School, decided to remedy a certain situation. One of his professors, a specialist in Rach, had deplored the lack of recordings with which to illustrate his less tures, Seymour and Maynard formed the Bach Guild -its avoved purpose the recording of all the twohundred-odd Bach cantatas, only five of which previmusly had been recorded. The first time: five cantatas never before recorded.

The records sold, and the brothers were in business. The name Vanguard-duitially with some vague connotation of Continued on page 121



Ward Boldord



Wilms Court



Walter Lagge

Remy Tarkes

### by MARTIN BOOKSPAN

### HE ENTIRE Eastern seaboard of the United States was sweltering in the grip of a brutal Indian Summer heat wave on the first day of October 1917. In a hundred homes in Boston, bugs were being packed and their owners preparing to take the 7:30 p.m. train bound for Philadelphia. Embarling on a trip was nothing new to these ment they were the hundred members of the Baston Symphony Orchestra and half-si-dozen times each season they west "on the road" for a weak or more at a time. As a matter of fact, it was basely two years since they had collected their gear for what had been the most estensive tour in the archestra's history-a cross-country trip which had taken them to San Francisco for a triumphant series of thirteen concerts at the Panama-Pacific Exposition.

The

But there was something different about the preparations this time. For one thing, the orchestra had not yet officially begun its 1917-18 sesson on the familier stage of Symphony Hall -that was still ten days off, nn October 12 and 13-yet here the men plrendy were proparing for an expedition. For another, there was the oppressive, debultating heat. String players wondered how they would ever he able to keep their instruments in tune. And what about the sensitive timpant shins, how would they survive the twin ordeals of weather and transportation? And then there was the most important difference of alls the archestra was going on tour, to be sure, but not for the familiar purpose of playing a series of concerts to a string of cities before enthusisstic audiences. No, the only visible audience the Boston Symphony municians would have for their impending performances were to be sound techniciane and a couple of enormous acoustical recording heres.

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**Talking Machine** 

Probably nohody in the official party that day fully realized the significance of the occasion, but the Boston Symphony Orchestra was headed for the Camden. New Jersey, laboratory of the Victor Talking Machine Company, there to become the first symphony orchestra in the United States ever to make a phonograph record.

Actually, the Vigtor Company was late to entering the field of orchestral recording. The first large-scale sympheny orchestra recording, a performance of Tclustkovsky's Nutcracher Soute by the London Falace Orchestra under Hermann Finck, was released in April 1909, by the English branch of the German Odeon Company. During the next two years the Gramophime Company in England was releasing recordings, by Landon Rousdd and the New Symphony Orchestra, of the works as the achirgo from Mendelssolm's A Midsummer

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Night's Dream, the Overture to The Marriage of Figaro, and Sibelius' Finlandia (a score composed only a dozen years before!). Similarly, in Cormany locally made symphony orchestra recordings had been available since 1911, and Odeon in 1913 produced the first complete symphonics ever issued Beethoven's Fifth and Sixth.

It was with some excitement, despite the weather, that the early birds among the members of the Orchestra began to arrive at South Station. By six in the evening enough of them had gathered so that throughout the waiting room there were small groups of men playing cards, checkers, or chest. Shortly before seven Dr. Karl Muck, their conductor, arrived on the scene. He had come directly from his summer home in Maine; he was wearing kolckers, and his face was beaded with perspiration. By 7:15 Manager Charles A. Ellis and Assistant Manager William Brennan had checked in the last member, and at exactly 7:30 the train slowly began to pull out.

The overnight train ride to Philadelphia in that pre-air-conditioned era was miserable. Sleep was virtually impossible and many players spent the night wandering through the cars chatting with their colleagues. In the conclusstor's stateroom Muck and Loslie Rogers, the Librarian, conferred about the repertory to be recorded. Only the finale from Tchaikovsky's Fourth Symphony was definitely on the schedule, with the remaining pieces yet to be selected. Muck wanted to do movements from other symphonies, Rogers strongly favored shorter, lighter works (and, tinknown to Muck, had packed the scores and parts of several such selections, among them the Pachade to the Third Act of Lohengrin, the Marche miniature from Tchaikovsky's First Suite and the Rakoczy March from The Damnation of Faust).

Philadelphia's Broad Street Station was like a steam bath when the train arrived early on the morning of Tuesday, October 2. The sleeping cars had to be vacated at 7 a.m. and so, in the semidarkness that precedes the rising of the sun, the hundred weary musicians staggered out of the train and onto the buses which were to take them across the river to Candea.

When they finally arrived at their destination, tempers were strained and nobody was in the loast enthusiastic about the work at hand-10 nm, and 2 p.m. recording sessions in the laboratory each day from Tuesday through Friday.

One of those who greeted the nuclestrit was Victor Herbert, who three years carlier had formed ASCAP and now was vitally interested in being present at the sessions. After the preliminary introductions were concluded, the entire orchestra was ushered into the "studio" where the recordings were to be made.

The sight that greeted the musicians' eyes must have looked like something out of a Rube-Goldherg cartoon: The studio was formerly a church, I believe. Inside it were set up two large wooden igluo-type structures, each with a sort of doorlike opening. We were told that all the strings were to sit in one of these hovels, the rest of the orchestra in the other. Ontside and in front of these igloos there was set up a stool and a music stand for the conductor. who would have to peek into the openings. It seems to me that there was a horn that came out of these openings and converged on a needle which made the impression upon the wax in front of the conductor." The words are those of Arthur Fiedler, for the past twentyeight seasons the conductor of the Boston Paps Orchestra and in October 1917 a member of the Boston Symphony Orchestra, playing violin. and viola

Seeing the physical conditions under which they would have to work, the musicians must have been appailed. However, though slowly and glumly, one fundred instrument cases were opened, and the orchestra's solo oboe player, the renowned Georges Longy, sounded his A. One hundred times the sound was reëchoed as there followed that dynamic, cacophonous bediam produced when an orchestra times up. They steamed and they funned, but they were all—to spite of themselves—beginning to be infacted with the challenge and excitement soon to be fell everywhere in the room.

Shortly before ten o'clock the men were marched into their little "igloos" and Dr. Muck took his position outside. They began to work on the Telmikovsky. Retake after retake wis made, sometimes because the engineers weren't satisfied, sometimes because fatigue and the heutal heat caused mistakes.

Boaz Piller, who played bassoon and contrabassoon in the orchestra from 1916 until his retirement a few seasons ago, is another who remembers the sessions. There was trouble getting the different matruments to register." Piller rocalls. There was a very amusing inoutent in the transition soution of the Tehakovsky finale. No matter how hard he tried, Longy was mable to make his obor solo register. So he was juked to come out of the little but and sit right in front of the large horn. Still that was not satisfactory. They finally had him put his instrument right inside the recording herm-arid this time it did Continued on page 124

This is where the music begins

## The Collaro Continental. 10 549

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HIGH FIRELITY MACAZINE



TWO YEARS have sweet by since our last report on Wands Landowsha's work in progress, and the thought of this long blanas prompted us to phone the Ludy a few weeks ago and invite ourselves to her home in Lakeville, Connecticut. Ine an up-to-date briefing on the state of munical affairs there. We arrived at moon on a gray, wintry Saturday, and after an immense bunch we found ourselves slitting in a large room that doubles as a paylor and recording studio, a room filled with dictinuaries and reference books. munical scores and notebooks, peas and pracils of every kind and color, Renaissance paintings, and-usually -a Pleyel harpstchord. But on this occusion the harpstehord was missing its place near the porch window having been usurped by a Stehnway grand.

"I am bury now recording some of Hayda's pieco music," Londowaka explained. "It is something I have long wanted to do. You know, much as I love Mozart's plano scheates, I find Haydo's richer and more interesting And today nohudy knows them. Oh, I am very happy to be able to play them. The tape machine was turned on and we heard the Variations in F miner, which Landowska had recorded the previous week. We were enchanted anew by her uppredictable and inimitable rhythmic address, by her expansive embellishments and her ability to suggest, the Romantic inclinations of this strange piece without having to hammer them home. "I first played these Variations sixty-five years ago, when I was a girl of thirteen," she told us, "aml I how always loved them."

Landowska expects to record at least three, probably four, Haydn plane sometar in addition to the F minor Variations. Meanwhile, some new harpsichord recordings made in Lakeville during the part year ought to be furthcoming mon from RCA Vietor. One will be devoted to the Two-Part and Three-Part Inventions of Bech Another will contain a Passacaghia by Johann Caspar Ferdinand Fischer, together with Bach's Partita No. 2. Fantasy in C minor, and Capriccio on the Departure of His Belored Brother.

When Landowska is troubled with Insormia in the small hours of the night, she plays her hedside phonograph and is the course of this noctornal listening generates some strong enthatianin. When we paid our recent visit she was on a Figure jag. To hear her talk, you would have thought she had just discovered the opera. "I play Figure overy evening. But not the whole opera-me, not even a whole act at a time. The LP record is too substantial. I choose one side, and I play it again and again."

On our way out we complimented Mme. Landowska on her radiant complexion. "It is because every day I go to the wood," she explained. "No matter what, I walk at least half an hour in the wood."



The Sories, cometime of Angel Records.

THE CLOSE of the old year coincided with the demise of Angel Records as a separate company? Angel has been sold by its parent corporation, Electric & Musical Industries of England, to another and far larger EMI subsidiary, Capitol Records.

Glenn E. Wallichs, Capitol's president, has stated that 'no changes in the successful Angel formula are contemplated " The Angel trade-mark and catalogue are to be kept intact. Although manufacture of Angel discs may eventually he transferred to Capitol's factories here, pressings will continue to be imported from the EMI plant in England for the mac heing. Angel inclusts will also continue to he designed and printed abroad for the time being Merchandning and distribution of the Angel line have been absorbed into Capitol's national sales network, with a greatly increased volume of business espected in consequence.

But-q most important hat-Mr. and Mrs. Dario Spria, who have heen in charge of Angel Records since its inception in 1963, are leaving the company they largely created. Certain basic policy decisions by the new owners have made the Sorias reluctant to follow Angel to Capitol. The rights and wrongs of the affair are not for us to fucige, But it is within our province to pay tribute to the creative Bair and high taste that Dorle and Durio Sorta brought to the record inchatry. During their four years with Angel they raned the packaging and promotion of LP recently to a new level ( and by "packaging" we refer not out to landsome jackets but also to carefully supervised annotations and labrettos). Angel's recordings, like those of any one company, have been of varying musical and technical quality. We liked some, dubled others. But almost every one, we thought, carried itself with style. The Series have announced an Emmediate plans. Their talents, we suspect, will not remain idle for long.



### TURANDOT (Poccial)

By Losse Processed wight also be the thir of this good loss opera of Prochal, set in the logendary imperial City of Poking. AMORI is the adapted, the secret, the solution. The key Primerso Toronale, mobiled by lower MARIA MENEGRINS CALLAS. The tender data get Lik, who does for lower ELISADETH SCHWARZKOWF. The Unknews Primes, who does all for lower EUGENIO FERNANDI .... The conductor, TULLIO SERAFIN. Angel Album 3071 C/L (35356-34-60) 1 encords (horderse, Electroned Electro)

### Orchestral

### KARAJAN conducts WAGNER

Tristan and Irolde: Prelade and Liebested Overtures: Meintersinger and TunnisSuser

Herbert von Karajon's first Wagner album for Angel: his first recording with the great Brein Philhormanig of which he so hiloring biostesi Director.

Renair polating of Wagner on cover, Angel 25482

### KLEMPERER cooducts BRANMS Symphony No. 1

but alknum of Klessperson's Brahms Symphony Series with the Philhermonia Orchestra.

Landen Sundey Fames, Ocs. 20, 37 ; "Elemperer the Magnuferess (handling) ... an everflowing andianae experiment that terms of being presses of a rise." Lander Bint, Termanic "One of the for which Elemperer is justly famed in his experime make an andienry experiment the classics as if they wave still have set."

### CONSTANTIN SILVESTRI conducts Tchaikavsky Symphony Bb. S

Who is Silveseri? ... Unknown herp but not abread where, after the Rumanian conductor's 1957 appearatices in London. critics evenest "Technically and temperaturnally a master of his on (New Samronan)," made a deep represents" (Daily Fele-point), "he is transactors, I but a grand passes to a pagpent fail, we will have mark mark of him (Daily Express). With the Philherman Orchester Subject preceded the Tchedowsky (A) Philherman Orchester Add, RO. and Gib Symphonics Angel 36566

### Orchestra and Soprano

### ELETZE) conducts MAILER SYMPHONY No. 4

### Soloist: Emmy Loose, Vienna Opera soprana

This discongraduest preceding with the PinBermann comprise with Paul Klaudin bit American topy at grant conductor Chefmand resphany (Jan. 17-19), Belfinsere Symptony (Pab. 5), Pauladeste Orthesteis (Pai), 14, 33, 17 and -- to N. Yu Carnege Hell -- 18), (beeklet with seas) August 25570 Angel 35570

### DARIUS MILNAUD competts MULNAUD

### Soloist: Janina Michean, Parle Opera seprene

The great French composer presents & works with water (Suptial Camera from The Song of Bange, Four Songs of Banard, The Pour Elements (pound by Dorses), Arise from the opers Balver, Pountains and Springs (6 parens by Francis Jammes). Posts Cameranishes Orthestra. (beaklet with anota)

Angel 35441

### Pienists and Violinests

GEZA ANDA plays Chopin Studes, Op. 25 Bellode No. 1 in G Minor

Angel 35439

Angel 35548

Angel 25501

### CLAUDIO ARRAU plays 2 Plane Concertos

Gring and Schousens

Phillorments Alees Colliers, conductor,

### EMIL GILELS plays Beetheven Plane Concerto No. 4

Phillermonia Longold Ladvig conductor.

### LIONID KOGAN In 2 New Angel Albums

Tohothoverky Visitin Concerto + Virabit Concerto in G minor + Locatelli Senoto in F minor Acquil 25444 Angel 25444

Pagamini Vielle Concerto No. 1. • Cantabili In D Angel 35607

Parts Conservateire Oschestra Andrei Mittaik, pinnet. Conflorisons Andre Vandemoot and Charles Bruch.

NOTE Anda, Arres, Offels and Kagon are now on Utila applicable American concert tours. We suggest that you treasure that Angel Bocards but also onjay that "Boy" in the concert hall. For tour dates, write as.

### From l'Imme ... Gale Angel Gift Albem

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# **Records in Review**

Recieverd by PAUL AFFELDER NATHAN BROOKE O. B. BRUMMELL RAY ERICSON ALFRED FRANKENSTEDI PHILIP C. GERACE JOAN GRIFFTIRS DAVID JOHNSON BOBERT CHARLES MARSH RABOLD C. SCHONBERG MURRAY SCHUMACE CARE MICHAEL STRENEEDE JOHN S. SVILSON

Classical Music	55
D. A. I. I.M. M.	61
Spoken Word	70

### CLASSICAL

### BACII: Els Musikalisches Opfer, S. 1070 (arr. Markevitch)

Orebreiter National de la Radiodiffataria Française, Jane Markey tob, card. Awers 45000, 12-in 63.65

The orchestration is tasteful and the playing in havely, has ble, Markevitch dies mine cirlant things with the order of the money of the one thing, he hange the estimat together fills a single connected movement and calls it "Theme of the Variations." In a way, the counts ore, of course, variations on Frederalt the Const's threas, but as are all the other portions of the work, Secondly, the all other archeviral transattere, Mr. Marbovich was faced with the problem of what to do about the three-part mitnor canno, where metroscation is queethally tadicated by Bach. His minimum for which Bach indicated exactly the some Instrumentation. Unfertunately. this selection ruine the properties of the Small. The Münchinger version of the work, on a London disc, is equally vital and her questionship, Nº DI

### BARTOKI Concerts for Orchestre

Barlin Radio Symphony Osubestra, Ferrar Prictory, cand. Dattes us. 6951, 13-ta. 63.86.

Pricesy is one of the facet of con-

temperary Bartilitans, and his oppoint of this factors work may well be the beer on remark. It is expectally addrweterlay for the hydrons of its Elegis and the driving preserved its Flands, but the whole is entiremply well dono and hes here very well apprecial. A.F.

BEETHOVEN: Quarteris for Stringe No. 12, In E Ant, Op. 127; No. 13, In B Act, Op. 130; No. 14, In C above univer, Op. 131; No. 15, In A submer, Op. 132; No. 16, In F, Op. 135; Crosse Figur, In B Ant, Op. 133

Hallyward States Quarter. Carrows, run 2004, Five 13-4n, 819.00.

"In this hast quarters of Beetherver," wente Oswahl Specifies, "... we experiemps helded the accuracy movements a while works of others." It is in public of wently challenging richness of context that makes this stands segment for these who have overcome the complexity of Beetherver's style and grapped his movement. Undervanishly the final spateters are difficult movie, without among of the instantitistly superstrates of the second state of the composets of the second state of the composet's and the second state of the composet's and the possible of the composet's model period, Alexandry movies and specifies and of the period of the composet's addition of the period of the composet's addition period. Alexandry movies and, specifies and of the period of the composet's addition of the period of the composet's addition of the period of the composet's and the period.

These preferences by the Hellyward Quarter say not predeming, and pressure declinated to the sectors probably will stand by obligs colorisms that reveal the beights and depths of the sector recover vivilly. But they are accounting, and to a remarkable degree. The cruggy edges have been wetteneed, the angular propreations collidered, and whenever makedy one he found it is given propresented. For those flot starting in tells interest to these works, this allows may be the sheal paint of departume.

For if (as an example) the Covering of the Cip 130 is locking the interactly needed to reveal fix full constantial anotrait, if is converbelies stated with an elegizing and reflacement that one finds throughted the out to a greater degree than in almost any other allitim. The revealing is good, although the presrence of the colles is constant angled, apparently at the expensive of the value. I found that an equilation curve of SOUC - 10.5 gave best results is spite of the RIAA information. R.C.M.

BEETHOVEN: Sometime for Visibin and Planan Rp. I in D. Op. 12, Ma. 1; Na. 4, in A minor, Op. 33; No. 5, in F. Op. 34 ("Spring")

Arthur Crambon, vielle, Clara Hadd, pieno,

Erer 1.5 3400. 12-4. \$3.98.

With this around release (framings) and Hackil are half way through the tes flexible or half way through the tes find their approach to the music proferching to that an optimpetitive dires. With three resists rather then the music two on the record, this exceptions; remated value to golvanced by a bargain price. B.C.M.

### BEETHOVEN: Symphony No. 8, in D miner, Op. 125 ("Chart")

Francen Yessel, agence Mgythe Lipten, mazang Dovid Lloyd, termit; Mack Harvell, haritem; Westerfiziter, Chair, John F. Williamsen, cond.; New York Philhgranden, Brune Walter, cond. On torna ag, \$200, 13-in, 03.05. Although the recordings issued here have been available for some time as at 186, so admirable was the laboratory work in making this transfer that it almost counts as a new set.

The first three movements heard in this version were toped in Cohombia's Thirtieth Street studio in New York on April 19, 1949. (You'd nover guess they were that old from the way they sound now?) The final movement of that set, originally joued as st. 156, was scrapped after a new version was made in Cornegie Hall on March 9, 1853. Composite though it is, the present edition holdy together extremely well. The cound is now in better focus than ever hefore, brighter on top, and with the hollow, poorly defined quality largely eliminated from the lower registers. A break hotweon sides, midway in the slow movement, is the only undesirable feature of the new masters.

The merits of the performance have been cited many times; and all who admine it would be wise to acquire this new transfor. Certainly at the price life a best buy, and relative to the other Ninths on the starket it's one of the lifest. My own preference new goes to the type edition (monannal) of the Toscumini on RCA Victor ec52, but that colds \$10.95. B.C.M.

- BENJAMINA Romantic Fantasy for Vialia, Viala, and Orchestra-See Mozarts Symphonic concertance, für E flat, for Violia, Viola, and Orchestra, K. 364.
- BRAHMS: Sonaton for Violin mid Planat No. 20, in A. Op. 100; No. 2, in D minor, Op. 108

Erica Morint, violing Lean Fammers,

WEREALDESTAR AWAY 18492. 12 in. \$3.08.

Other great violinists may play these two similar differently, but nobody 55 going to play them better. Mortifi brings to the mesic something of the same quality that Novaes brings to equivalent plano pieces-a souring lyritiant, a matchless instrumental conmand, and an aristocracy of mesical approach. The perturbation of reperturbament, a matchless instrumental conmond, and an aristocracy of mesical approach. The perturbation of reperturbament, and an aristocracy of mesical approach. The perturbation of the public, there playing is sugget without being saccharma, clear without being obvious, and instinctively right. Low Prominers, her regular accompanies, bardles the plano part of the two somating with more force than he generally clease in public, and the relation between plano and vialin is all that model by desired. An outstanding release HACS.

BRAIIMS: Summany Nove2, in D. Op. 70

Vieuna, Philbdemunic Orchestra, Rafaet Kubelik, cond. Luxuus 13, 1009, 12-10, 93,03,

One of the bester of the fifthern or off available Bruling Seconds, a rich-monthing performance, energetic rather than byte, Teathring the Vienne Phillisemenia



Rachimaninaffs a titan labore for Chopin.

at its best. Kichelik's tempos are a shade faster than those of most other conductors in this symphony, but he does not give the impression of rushing, nor does hit orchestra, which handles the music with noble sumstities. Kubelik, whose rhythm sometimes can be flabby, never lets Brahmer down on this disc. He obviously is stimulated, and he communicates his stimulation to the listence. MCCS.

### BRITTEN: Peter Griness Four Sea Interluster, Op. 43a; Passacaglia, Op. 33b

Hellarmanic Prononade Orchestra, Sie Adrian Boalt, ernal.

WISH MINATION W-LAN 7075, 12-br. \$7,50

The recording is the hat word, as is always the case with Westminuter's Laboratory betwee, veloce pretentions in istperiority are entirely justified. In my nown opinion, the superficially effective functo here provided is not worth the premium price, but if you want a due of these paratogs, there is certainly no record to obspace with this only. A.F.

BRUCKNEHE Sumphony No. 9, by D

Anatychan Cadoortgeborth gOrdanina, Eduard Van Belanna, cood. Ers: ar 3401, 12-16, 83.56.

Brocknow's Aust-and as many respects since copression-composition has not been welling the adequate disc representation. For several years, thereasteins version parts single Van record has taken very good care of the domaid More recently a singlety more explaining and three sides of a Decea of, has superacted it to some extent. But now both will have to give way to this truly siperior interpretation. Yan Beiman's reading, accurring only two sides, actoally takes dightly larger than Jocham's yet it seems to have more forward motion and more sompactness without any meeting of vibrant expression or truls folding besides. It is just half as expensive as the Decca and a dollar, charger than the You, All of which earns it my votes. P.A.

CHOPINs Soudia for Blang, in B Ant ushor, Op. 36

ISabumannin Corneral, Op. 0

Sergici Rachmaninalf, plana. RCA CAMPER CAL 396, 12-in, 11-98.

What a buy! Two of the important giano works of the nineteenth century, played by a titudic planist of a provious generation, in LP transferr that retain much of the original quality and all for \$1.05. The Carnevol used to be available on a J0-inch disc in Victor's LCT series. This is the first time, however, that Bachmaninoil's version of flie Chopin B flat minor Sonata has been transferred to LP, and it should content many plann discophiles who have long been clamoring for this happy event.

Rachmaninoff recorded Carnool on April 12, 1929, the Chopin sonata on February 18, 1930. Buth are staggering and literally inimitable performances. Rachmaninoff was trained around the turn of the century, when planists and public were not as purist-minded as they are today. It was expected that the artist should enjoy considerable leevay. even to the point of reinforcing certain passages for greater technical effect, Bachmannoff, lineself a composer, was less and then many of his colleagues to alter a score, but he too touched up parages here and there. His Cornecal is pelatively restrained, but there are coctions in the B flut minor Sonata that are downright arbitrary. Yet by the force of his conception and the consistency of his musical approach, Hachmaninoff makes the Sonata a tremendom experience. He was supposed to have been the first to play the Fringed March of the Somata an it is heard on this dlaux starring planiation, building to a femicions climas up to the trip section, russioning this forthistion int the end of the trip, and these tapering to a plants-simo sit the end. The idea is that of a propertained country from a distance and then receiling into the distance, Apart from they, there are many tlotald in the Sonata that leave one gasping. Not the least of these is the mira close case with which Rachmanifull negatiates the the twentieth enternation regulates for the otherate. Only feed Hofmann, in the twentieth contary, was gapdilify at this kind of pinolog. As for Carnood, it has a force and a degree of pinolated finance that no pointine on records have over began in dimlimite.

(prevenuibly the Schulz-Evler transcription), and reveral others. The Bertrassre-Levels biography of Rachmanitedf, pubhided in 1938, gives a complete fisting of all the emplement Rachmanitedf masters. H.C.S.

#### DEBUISY: Images pour orchestes

Orchantre de la Seine Romande, Ataulio Argenta, conf. Longente LL 1735, L2-in, 63.95.

Superio recording and an interpretation untably for its hypistop risythms confer special distinction open this release. Cigners and Randro or printempt como cost particularly well, but the Ibavia is also very good. A.F.

DEBUSSY: Probade & Papele mill d'un fannes: Turo Nacturner Nungers, Péter (Revel: Dephase et Chief, Suite No. 2;

Pesane pour une infanta difunte

Philipementa Orchestra, Goldo Cantelli,

Asens. 35534. 12-bs. 94.06 (or \$3.98).

All fease performances any considerfully synamize and flowlessly recention. If and of the flows conductors of matters times, unitimely detraced, is to be repersidered through his interpretations of things that everylandy else plays all the time, this is a fitting incrustical to Catalo Contrill. A.F.

DEBUSSY: Quarter for Strings, in Q minor, Op. 10 Harge Quarter for Strings, No. 2

Pagashi String Overvet. Lanurry stry, 15604, 13-In. \$3.95.

The performance of the Debuwy is highby expert, but the second is concervint reachance and locks the all which the second requires. The monodul, howeritally made composition by Bergionia Lees on the other side is, if I am not existables, they only string quarter by a modern American comparing to be amplicated in current recent lines. An excellent recenting of it by the Juditari Quarter is publishe on Colombia. A.F.

#### DELIBESC Coppilis

On heites de la Satas Ramande, Ersett

Lastaner 14 1717/18 Two 18-0. 97.06.

This recursing presents another welcome changes of here saugh we've here attaing by contrating anorelves (perficted) with attack. Only within the last few recers him we have able to beer might affect severes stouddy and here them what, and the appretures demandificate that prod clamps made to to no succetion different lengt prod made to preeral.

Before Receiping to this singularest revealing I was not ingliged to put Deliver in a class with Tabalizzatiy, Structurely, and Rovel. But Assertion

has pade out a very convlucting ease for such a grouping. The familiar ports of the acces (the "mile") are dono with a virturally and an elen unmatched to any of the Docho rivel versions in the cutalogue. Even the usually inspiri Value lengs, to use the shallest part of the scove, is at least suffership here, especially show Assertment worker some sendhis antinent upon its accord approxsuce. (The only other cut, in my openins, as increased in one, is to the Discords at is Garrer apeting of the climited discrimenters) The popular Maserka emerges with Chapterupte grace, the prosected four variations and a gelle-pole on the distinctly sto-Blavin Thirme slave could not be done with more between or good beams, and the less familier much is a constant corpering and delight. And while the long drupfinations, never before recorded, with which the hallet cloves may make Cappolice legenders as a dramatic structure, it certainly enriches it as a semanal esseverage.

Anorrant's sepreb seriests is matched by Lowlen's sepreb technociss, and tegether they produce sense reveariably brilling and viscant second. D.L.

DURAS: L'Appront section-fee Resshal-Raspights Lo Bustique fundacque.

CRIEC: Halberg Salle, Op. 40-Sec. Magerts Les preus doni, E. Anh. 18.

GRIEG: Poor Constr Soldow No. J. Op. 60; No. 2, Op. 55; Lovie Suller, Op. 54

Edward Farrell, separate Rantas Papa Ovelandra, Arthur Findler, read. RCA VERTER LAS 2125, 13-08, 03-08.

A generative generation of sensite is got cutto this cling. Both Poor Capet Ballers are included send, in addition, the locked but describing Dourse of the Mountain King's Daughter, which Cotag congravity interning to use as the feasing of the second



Delibers London fille out a plane.

calle hast devicted to discard-wisely, I think, share it is momenthing of an collichasts ofter isolarys's havely come. This latter is using in the scilptori form by Effects Parvall. One remainders with any particular on the scilptori form by Effects Parvall. One remainders with any parvalle on remainders with any parvalle on the side restabingly becautiful voter, that America's ment are significabled young the main are seen bes mover using at the Metrepolitors. The server physing in Ant's Death and America Dence which are second for arriage alone) could remain from newbow elso but Restar.

The loan-universitient Larte Solle provides a further brann, especially share it gets have its here performance on LP: the March of the Danels is perform tunned, and the Nauturne glammers with northern coldness. D.J.

HAYDN: Quartate for Stringer No. 73 In C. Op. 74, No. 1; No. 83 In C. Op. 77, No. 1

Juillard String Quarter. RCA Viewen Lie 2168, 18-6. 63.08.

This, only the arcand monthing of the Op. 74, No. 1, is its initial approxime on encouperates, Blancing it you it probably womber if more or the composition algoty-fame quarters area't worth evalucovery-copecially in proformances as good so this area.

The fulfilized group have as obvious -and in an way common-screep of the comproses's style, and they play with satisfiely and colors, Add execulization recording and you get a disc that desptantes its reveals in the Op, 77, No. 1 and gives them, a standard to reach to the Op. 74, No. 1. We can use a really complete alitism of these weeks, and here is a group that could pandate it. B.C.M.

### LARSSON: The Distant God, Op. 24 ("Lepical Salls")

(Windon: Symphony No. 4, Op. 27

Lars (Albarg, ouritationid, Ellashafa Saderstrautz, aprava, Erik Sandra, harttano, Marris Lidatana Vazal Escrembler, Jacobhain Rastin Orchevtra, Stig Westerhorg, good. (in the Laranze); Singlibalas Rastin Orchevtra, Status Ehrling, cond. (in the Wave).

Warranning www 18325, 12-10, 13-06.

This second shands was many new friends for two of Sweden's loading composite, Lars-Erth Larson and Dag Wirds. The Lorunn with boors the substitle Lorind with grad reason, balan united alive to the externer and highly molpillo. Is cantotas approved for rectler insertioningsaded, others for charas with and without expense and heritage selects, a septimebartisme dougt, sill unteg as test a Sweetich proven about alice who rearted our lives by shots diagonated presence on earth. The performance matches in erary way the breaty of the mude. The solution perform with disjoction, the elevent is milid, and the Gantheles Radis Orchantes is a mont-mapping restrately with some first-ease worsh-wind maintin.

Through the Wire's symplecty is patterned ofter classical spadels, it is thussengility excitant prove rather deric-hand, description could recovere entry increased and the symphony's theoretical achieves. All of the symphony's the sectors are the first more recolverging to the first more provided form, and Elefeng's direction beings out all the sectors.

Both performancies have been advened in crystal-clear annol, with the presance and definition. Even for the only atthily adventures, this is a disc worth incomfignting. P.A.

- LEES: Quartet for Strings, No. 1-See Debuny: Quartet for Strings, in G minut, Op. 10.
- LISET: Speaksh Rhoppedgy From fisletig Paganini Etudes (6)

Bach Stenerynska, plana. Dacca ng 9049. 13-14. \$3.98.

This is by for Slowerynska's host record. Nothing the previously has slope has maggested that the was capable of this ender of virtuality. She plays the Spendals Rhapsedy as written, dusiging more of the difficulties and making no simplifications. For the un etsides that Loset remposed after Pagadal capture, the uses the 1851 version as the crosposer left it (many playing the the Burnet edition). The only ithing she adds to the budeau and stargers laveren an plants in my addition (Riccordi). Otherwise everything is in good only. Simerypda's playing in scuthy finadori, shythratcally regular and in good taxte, with the strength to raw to the big commonly. Along the only thing lacking at prevent to a sample of pressonality? due to saw regular and stratghtforward. Where, for example, she aremost resiless and uncorrate how to tackle the lyvic aplitudes in the Chapta (tasket, released several resorther age, they gover Liked dasy has dark combienes and a good memore of mandrality. In addition three it a degree of show technical buildings that will mable some holowers revise their astimute of this plantif's pergentializing. H.C.L

### MEADELSSOHN: Midoummer Night's Desim (Incidental Music)

Jennike Vyvyen, Marin Lovez mponnm, Churns of Royal Opera Hanga, Oweret Gastlen, London Symphony Orchastra, Peter Mang, cond. Lorennei & 1707, 13 (n. \$3.00.

in addition to the Overture, there are turble quattum to the score that Merodeleasts assembled as instituted much to A Mulauminer Night's Decen. The outer score can be found in the Old Vic recording of the play. But as Nas. 4, 6, 6, and 10 are untransveted britigies, must seatchistors whit present the work is remover form offer at most seven as ought acctions. Mass, in the seconding, conducts the Overture, Schwam, Intermores, Nastara, Washing March, the third shows (To spectral makers), the Dataset of the Clearma, and the Please Of these regist sections, only two cult for solid degrees and electron-Ye spectral readers and the Findle Mondetanks achieved the antrawedinary feat of comparing the Overture at the injo of sto-



Pater Mang is houry with Mendelasha.

ture, the rest of the source was written, an emissibility, determ years later.

Mang hamilto the most very well. He has a hearty approach rather than the ordierunitions may dairy (as College unyo in Intensity) attitude some conductive have other contrinant with MND. The singing is deficitely dame, pad the two suprovan, with their high, clear voices, mund exclaiting. Lovis the words of the chorus can be understand. This vertion of the MND incidental entering in early as good as my on the market; in my updation it is the lard, even if Pricesy's fine Decen version offers and section of the score (No. 2) and in the permant ditte 11.0.5

### ATILITAUDE Las Mallerers d'Orphées La parere materiel

Jacquelline Brenneles, supress (30 both warge); Bernard Dewagery, haritstag ward ecoreshie (10 Las Malicows); Joan Giraulanes, seven Xever Depres, have haritents; André Vendires, have (in Le pencer resteller); anothers of Orchester do Thiltery Manual de l'Opine, Dartes Milliond, anni.

Warrenerry or 11011/11010 Two 12-by 64.00 cub.

Les Mallours d'Orphée, composed in 1924 Its the formes proving thester of the Printrue de Pulignite, was the link of Alibuard's samewours obstatigt optime and rampine, performed Longel, is based optim Milliand's over conceptions of Orphesis as a kind of investopen village representation who has seen the love of with animals through the madicine rather than through nong. He mestices Encydice, a gypey, but to souddle in ourse an filtered into which the falls. Her gypey others, the averaging Greek forms, bill him to reverge for her death. The prime quality of this work-and promotily characteristic of MilliamsTo operate in the hyperities. Orpheses many he is physician reduct them a port, but he really dags, neverthelized, to the grant traditions of his mythical ands. The vacal line flowto becombility and followerthelity: Encycling's doubt and the granechatchy phanyword laprent of the wild beauty are especially afferting, but the whole scare to a bitle manterpreve of mag.

Le proprie materiet, companiet two years later, is aplie different, Joan Cretem's hard, is subtitled "A Lamont in There Acts," but it mucht better by called "Roach Arden at the Courd Guigant." The attice returns to the fatthfed wells after fifteen years' abarmar. To test hey fideling, he protocols to be a friend of her humbood who, he styr, is allow hat destitute, Since the stronger is obs/stably loaded with memory and proels, the wills manders and them of the humbout whom estars de has been hel to expect.

The cyle have is visibently if not broadly diagonatic. The varial line underreative Catterns's text, and the arthorstop consistential upon it broadcally, placing great street on a descarted har-cause atmorphere (march of the action takes place by the wild's underformt codd) and an suffice sugget the serve of the marcher is based cattery on Blost the Man Danne. No weather this speers was represally accounted this speers was represally accounted this speers was represally a bit marching marked Milhand copy it can for there solid years in Borlin, and in the Thirdpy it was brought to this country by the Greenan green knows as the Satcheog Opers Cause

The performances have the estherticity that comes (scop the anterposts's over theretion, and the percetilizes are fest class. The indicate between the veloce and the regresses, ages texture of the chareby cochester is alregether adminishing, can wishes only that the despers had eccessionly here more prcuto is their plack. Full texts in French and English are provided. A.F.

MOZART: Los pettes riess, K. Ash, H

Stortgart Chamber Orchestes, Karl Man-

Lonaur LA 1685. 12-4. 13.00.

The exercises and there also more means written to Parts for the relabrated ballet master Nevers are bits and prove from Monary's Pleast work does, but the the hapstilles of Beetheves, they beer the damp of a master, This empreciations composition is topretestimatly played by Minghinger. For the maste of Greig, however, the size dasher differ to a space different spprease, for although the event is colotained "Dulle in Ohlen Style" Press Hellery's There is thermorphy rescents in particle and scherteness force overhered in parts and achieves for evelocity and great parts with the transmitten (the five players constituting the oute were orightedly written for players), he employs only strings fift the instrumentation is varied and rich. The performnace is first-rate. As for the recording, the violin tone is only slightly unreal. N.B.

MOZART: Quartets for Stringer No. 14, in G. K. 387; No. 19; In C. K. 465

Intilliard String Quartet. RCA VIETOR Las 2167, 12 In. \$3.98;

The Juilliard Quartet has been admired since its inception for its excitibg and understanding performances of contempunity works, but reservations come-times have been expressed concerning its ireatment of the standard classics. The present performances show that such reservations are no longer instified. In addition to the combination of fally satisfying individual playing with practi-cally perfect ensemble playing, there is avident here a kind of repose, a tranquility, that seems to grow out of a deepened insight and is not, as it used in seem, marely the throttling down of a natural abulitence. I have not beard the fugal finals of the C putjor Quartet hatter played univaliance and an for the rest of these dijurtets-the first and last of the set dedicated to Haydo-only the Budapesta vorsion, it seems to me, is N.B. Reperior.

- MOZART: Symphonic concertante, in E flat, for Violin, Viola, and Orchostra, K. 384
- Benjamint Romantic Panthay for Violin, Viola, and Orchestra

Jascha Heitett, violin: William Phinorose, viola; Symphony Orchinstra, Izler Solomon, confl. RCA Victorit Lat 2149, 12-in, \$3.55.

The Mozari performance is a little cool, a little impersonal, but this minde is norhurt by such an approach, and from every other point of view the playing is first-class. The tempot are somewhat bidger than is the excellent Fucher (Decca) and Stern-Primose (Cohmbia) recordings: this permits Victor to get the whole Symphonic and, one side, The new work thus gained is unfortunately to brow, consisting as it does of a string of beautifully played clichés which would have made a fine background to an old Juan Crawford movie.

MOZART: Syraphony No. 35. hr D. K. 385 ("Haffner") (with Berliaz: Weinerley, Ovarlare, Op. 1; La Daumatha de Fond: Three expering

Alumni of the National Orchestal Alsociation, Leun Barrin, cond. Concerned au. 5176-19-in, 43.98.

One day about twenty years ago I stand before a new display in the window of Sortheor's bookshop on Fifth Avenaus; it was a long time before I could tear night! away from it. There in the center wait in open case, several is blue plush and begring the arms of the King of Havarfa, and inside the case, its first page deady visible to any passer-by, was the original manuscript of the Haffner Sympleony. Near it was a small card boaring the price-it was a small card boaring the price-it was either \$10,000 or \$20,000. I forget which Some time futer the precisits antigraph was bought by a lady who presented it to the National Orchestral Association, which still awas it.

The present recording is in the notare of a tribute to that Association, and a well-deserved one it as For more than two decadey Lean Barzin has been testing ing talasted young players in orchestral mostine Each year Baran hammers callow youths into professional performers. Each year the graduates go Sorth to places in the various orchestras in the land, and the indefatigable Barsin tacklos a new hatch of seconds. Nowhere elle, outside of a few of the largest conservatories, can students get the intensive and thoroughly professional ambestral experience that they get here-and Mer all mer.

The quality of the material producind by the Association is shown on this disc. This get-together group of almoni sounds under its old teacher like a masic symphony orchestra. Only a very ogcasional roughness herrays the fact that these are not playent who have been performing together for years. The Columbia engineers have caught the mund with superit clarity, and richness. N.B.

BAYEL: Daphnis et Chinë, Suite No. 23 Parmie pour une injante définite—See Debussy: Prélude à Papete suidi d'un finanti Teca Noctument Nuages; Fétre,

RAVEL: Tzigano-See Wieuswald: Conceito for Violin and Orchasten, No. 2, in D minor, Op. 22.



Georg Salts over the Toychap doncing,

HOSSINGRESPICIUS La Basiliano Jan-Jangere Dukas: L'Apprenti aurier.

Innel Philippensule Orchestra, Georg Solfi, cond. Londow 14, 1718242-6, 80,885

La Beneligue fundancie (The Foundancie

Togehop) is a Diagbilev ballet with charcography by Leonid Maisine and a score arranged and orchestrated by Respictors. Of the several available recorded versions, this is one of the few that is complete. Solt presents a vibrant performance, probably paced evenly enough for dancing, yet extrainly sufficiently vasided in style and color to make for interesting literature.

The treatment of The Soncerer's Apprentice is among the most ignisparent i have heard, and coupled with this clarity is at fine feeling for the work's dramatic and supernatural qualifies.

The Israel Philharmonic, already well served by Angel, sounds even more brilhant in this London recording, thanks to the excellence of both the playing and engineering. P.A.

### SAINT-SAENS: Counses for Viglin and Orchostra, No. 8, in 8 minor, Op. 812 Introduction and Rando capriocioso, Op. 28; Haramaide, Op. 83

Arthur Grunnishe, Midlia Grubestee des Concerts Lansaureur, Jean Ensamel, aund.

Eine Le 3399012 min 83.08.

arithm Genmany's heuntilelly smooth tone and self-effector musical taste, as exemplified in every one of his recordlings, are decidedly-and refreshinglyin contrast to the finsky style adopted by so many present-day artists. Furthermore, he has had the advantages of a disc reportate congenial to his talents and at especially appropriate couplings.

On this thic, for instance, is all the important music that Saint-Sains wrote for violin and orchestra, and it has been expenditely interpreted. In the Concerto Gramians antiorclinates his flawless technique immupletely and gives his entire attention to the matters of tone and inperpretation. This is most proported in the along movement, where the velvoty mands and meticilaris phrasing, culminating with a perfectly executed set of harmonice, are a joy to hear. The Handmaise, ide, in notable for its sweet tone; Even the Introduction and Rando capricciono begins very calmly, and yet builds up to a thoroughly brilliant cluster. Such a climun, as well as meeting of the Hageneise and the and movements of the Concerto, clammaks a goodly amount of victoostyr. the withoutry is there in ubundance link nevel for lite own sake.

Fournet and the orchestra subance the boanty and poised effectiveness of the violinistic performances, and there is a wonderful shoen to the reproduced sound. TEA.

- SAINT-SAENSi Introduction and Handa capriccioni, Op. 28—See Wientowskin Cancerto (or Violin and OrchestrueNa, 2, in D minor, Op. 22:
- SCHUBERT: Owinted for Plano and Stringle, in A. Op. 114 ("Traus")

Victor Babin, prono: Englynt Quarter, hCA Victor LM \$147, 12-in, \$3.98. This performance has some of the elaments of a great Trant Quintet-namely, violinist Szymen Goldberg and violist William Primrose. If Victor could have matched them with Casada and Serkin, three would be maste making for youl Mr. Smikey might remain as double bass player since he has the great requisite for that thinkless post, discretion. But Mr. Babin and Nikolai Grandan, cellist, excellent muddiani in their ways would have to fethe. Babin has not successfully made the transition from the steely-fin-geral partner of Vransky to the loyous and ensympting master of ceremonles which his part in the ensemble ought up be. Witness his saily mechanical phrasing of the dotted rhythms in the first

nonvernent's second subject. Princese and Coldberg, repeating the delicious little theme after him, are like two kindly masters showing a youngster how it onglist to have been done. Nonetheless Bahin never obtrucles implemently, and when Seligbert calls upon him to do the brilliant filigree at which he is best (ap in the third of the Trent variations) he makes one want to stand up and cheer. Grandan is a collist of excellent taste biat get mands temperament. He keeps failing to cise to the balt of this placetary music, though his part is studied with many a tompting hit (Schabert wrote the generatives an edonmission from a cellist?.

An ideal seconding of this work dias

### A Blend of Ages: Agon and the Canticum



### Igar Strankshy

NOW that Schoenberg, Webern, and Berg are doad, their twelve-tone idlour takes its place in the onormous countien-gatherum of learned reference on which Stravinsky has been drawing for the past thirty years, in both Agait and the Cantienan Sacran, hiswester, meelsectung prooptimes are imperianinclustions plus Arboasi, the Cautionia Section evolve-tone plus Cabilelly It is as if much work existed on two levels of tradition, the me mount, the other remote. Planks in part to the toneinne and parallels built up by this prothat Simuladly is Strauladly, India pletely metanting

Amon (the word mouse "notico") and completed in 1956, Described as a haller for twolve dimens, it is in divident about novements, many of them saids visiod into still sharter movements, no-cording to Robert Graft's notes; all are dance manual of the indi-seventeenth. contury." That Stravinsky handles these

elegthous with the atmost brilliance, effervescence, and wit searcely needs to he mid. Along with this goes an atterly magical inventiveness in this matter of orchestral color. One gathers from Agon that, after fifty years as the world's most resourceful orchestral immovator. Stravlasky is only beginning to explare the subtletics of timbre of which the Western-ensemble is capable.

The Cantiluum Sourney was comprised in 1955 for St. Mark's Cathedral in Vonice its text is taken from both Old and New Testadtents and has to do with the preaching of the word of God. the characteristic twelve-time cryle, the final section, wherein the words reliev to the fact that the gospel has gone forth, is a precise retrogention of the music beard at the beginning, since the work opens with an exhautation the sproud the gospel before every consture. Much of the onlor of the Continue

auggests the composite who served SL Mark's at its height; in other woods, antiphonies of brass and organs are promment, and the whole has a golden resonance like that of the cathedral's fomous mosites. The solo voices are handled in priestly, chantlike style; the chinus massively, aften with infraste polythony. In general the Cautician continues in the line of the Symphony of Panimus, must have an spects it will be as whilely admined.

The recording was made at the con-ourt given to eveloping Stravholige neventy-fifth birthday, at the University of California in Las Augoles on June 17. 1057; It is ense of the most complotoly flaviless reglatritanar in Columits amone, beyond atticion ...

ALPHED FRANKENNYEIN

### STRAVINSKY: Agon: Condenne Surrian

Highard Habneson, tenors Howerd Chilflan, haritane, Los Angeles Festival Chorus (in Cambieum Shermai); Las Angolos Festival Symphony Orchesta, Igor Strivinsky, cond. ( in hath works). COLUMPHIA NIL 3215. 12-(m. 61) .....

not exist, however, nor did one exist back in the days of 788. Under the class timistances, this is as good a performangediction why an initially and In must offers (its nearest rival: Harvzowski and the Budspest Quarter). The recorded sound is excellent, but the review copy contained a good deal of surface nodae. D.J.

### SCHUMANN: Camarni, Op. 9-See Clamping Sonate for Plann, in B flat miluor, On SA

SCHUMANNE Eludes muchaniques Op. 13; Kraislersona, Op. 16

Willielm Kompfl, plann. DECKA DE. 1948. 12-10. 83.95

The relative populatily of these Iwo works is selford in the catalogues: nine performances currently (several have been discontinued) of the Symphonic Etudes, three of Kretsleriana. In the concert hall the ratio is slanted even infine in farme of the former work, Kretsleriano is hard to hold togethertipe of Schumann's most infimate works, it does ramble a bit. Kempfi class a mognificent job holding it engether. His is a mature, cultivated reading. He does not try to overpower the piece, he has a wile tonal palette, and he has great sympathy for the idiam. The same remarks apply to the Symphonic Etudes (where Kempfi takes every single repeat but the first one in the finale, he does not, however, pluy, any of the posthu-mum variations). They are poetry and manity tet this playing Anda in hi-Angel recording of both works, is a Hills more impetantis. On the whole, I passies Kempli, Few of the other Ender and Kredderheide new nuilable have nuch to recommend example for the Endes of Novnes (Vox), an intentionly planistic conception. H.C.S.

STRAUSS, RICHARD, Sinfania donp antica, Qp. 53

Chicago Symphony Drchestra, Fista Reiser, cond. BCA Victorica 2103, 12-in, 43.08,

The perfect Demestic sympliony will perhaps never he heard. Strauss aska impossible things of the prehestra in this wirtually last of his time pooms, includhe futiliste anticipatini sountermolocies which and dispond the heard while the eight horns, four transpetar distys two atrings, ste. are assorting themselves at full volume it is a disturbing experiperformance, recentled or live, One were the obse d'amore fir the bask clarises deling all sorts of nice little things on the juget that they are also during them the wood our most take on trink,

Which is merely an introduction in saying that rechnically house and the Chicego Symphony Occleston give all that due can reasonably ast; of them, A great deal of dotail flows omerge and, what it more implifiant, there is a

Continued on page 62

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FIERTA IN HAPL EASTHAN-BOCHESTER STUPHENT, HANSON, HAS 8-38

-----OLYMPIAN LIVER PREMERES



violancely of encreable that I frank wanting in the rescardy mand Deven verticity. And you, I can decopyrated. The reacting in two hundredding, test--as it were contracting and the invest like a mether's creasing and the lovely failt man which fit one introduces toward the mether's creasing and the lovely failt man which fit one introduces toward the condition work (page 62 of the ministere access) anglet to be played just as it is marked, relate and ringing but as it is marked, relate and ringing by, are what this preferences and singlicity, are what this preferences are dence topyship.

The Clements Krosses version on Loudom remains my favorites its reconded storad, however, is devidedly infester to the presint dlar's. D.J.

### STRAVINSKY: Portphene

Clande Nollier, surrator; Nicolai Geolda, tonar; Chargeb de FUniversité de Paria Declayatre de la Securé des Cancerts da Cancervatoiré de Paria, Acidré Choyteau, cond.

Annue 35404 18-in. \$1.85 (or \$1.08).

A four magnitus ago Colosobia hersight and the first racarding of this work ever bandy, with Seravindy https/f condenting. As usual, comparison horowou the two versions is all to the minutage of Stravinsky's own. For and thing, the Colought recording is murbelly operior the the Angelt Columbia's usual tes a descriptionality, depth, and rolled, to the eveloping and that word, which the never tune lacks. Stravinsky's intergentation, also, is more perioden, descentic, and varied) Chrytens' performance second respectable scrough will you put on the ald moster's and then it spands like La Dismeissile dan. The scholar are about equally good in both version, but the presented supervisity of the Colombia louves as mean for choices AF

TARTINI: Sounds for Visits and Pieses. In C. sound ("Devil": Tell" & Seasto for Visits and Plans, in C. same ("Didone Abhandaness"); Variations on a three by Carelli

Erica Morini, vielin; Leon Poumers, pienes.

WERTHERTER EWAY 18564, 12-4. 63.06.

Chargener Tartini (1683-1770) want? best turning and purchases's work when he wrate the pieces recorded here. In the first place, he was a most conwirnifum artist, fulgepited to arounder, howing, and the Boost quality of mand prestantes bronally, he was a strong clineve in program music for the visite. The Variations as a shore by Could ate really a set of fifty studies in the art of hearing, of which only two are different heart the frances Devel Trill senate, thingh repaired, inquind by a desting to introduct to develop the late hand through the accurate printertain of initiate trills and device-straps. The other senate on this disk is a musical interpretation of the immediation of Dida.

Exten Marind is sound suppressful the bringing all of Tartini's tribudest and interpretative stars to feathers. Her pro-



Tastial fails to bodeed Erica Marial.

formances are piere, strong, and effectingly drophs, and she is ably orreaded by Pransverts. The reportentian is clean without conggreature is cauge. P.A.

#### TCHALKOVERY Amont's Wedding

Bollets Runies Orchestra, Milan Horvath, oursil.

Concept Hats an 1304 13-0. 94.98.

Asrees's Wedding is a sup-art ort of halhet discontinuously operated and towhere by Disglater and Millacha, ofter the former's veriged of the full-traph Slovying Boosty in the early 1920s praved an artistig motion hat a featured adare. It utiliars made from the Proingue and Act II, but is concerned material with the factors dames from Act 111. Several newsitie ago Mercury tenand a version of the work collered from the recording of the complete before come by Antal Dorate, in which there were some departures from the original Aurona's Worlding, According to the unites in the present allows, it is preformed "precisely as it was first prosented at the Opica to Parts" by Disgheley. This may be true, but I have small diaris, for three ate averal questionship rest. What is there is played with free easts by Hervall, andly it trapes tween dears and remark speets The work of the archestry, while not always at published as & cylight he, it generally elevan and acceptable, and has beyon press/proved in share with well-balanceri, immangerated annul. 7.4.

### TCHAIKOVEKT: Symphony No. 4, in F minar, Op. 36

Orchester National de la Bachadalladem Francador, Igur Markesterh, cord. Alorad, 35446, 13-40, 64,00 (ar 63,06).

If this ten't the toy Telephovedry Pearth at matriagrouter 0 passes class. The anatry are empositionality foregoid to the tropped are compositionality foregoid to the first memory of the archevin to Prany's protects. Limits to the metrovales teneswork of the ticyl movement, especially to the permissi wind acted that begins its escalar exciting, or to the dilarket andre of the centre string hady in the finde-rest a single sensorymerer is blarved or but, differingle the tempo is allegre can from and the dynarvies are  $\beta$ .

The conductors is that coving goales Iger Marbrothch May be invite settle down to one post if his peripatetics peydage results like that When you have that recording, you will, I think, by struch by Markevinch's effectives with Tescanies. The perfectionist, the socia-test who never have eight of the whole dropter his possisione concurs for the parts, the degreener built-haulist who yet gives the representation that he has adsurged his personality in that, of the composed theirs are were of the charactertalies that the tors aim shapp. Markewhich has not you reconded on opera, but I previne that when he does it will be enmont [lie will second Chala's A Late for the Case this winter-Ed.] DL

#### TURINA: Conto o Spollo

Victoria de las Asperira, sepresas Losdas Sympheter Orchestes, Asande Fissoulart, cond

Aver. 35440 12-0. \$4.95 (or \$3.95).

Certains to only at one of the heat veral reference of the proof, the matchless angbig of Mins de las Angeles to here comhand with her matches capabilities as an interpreter of Spannish monte and an evercative scare, arounded in full for the first time. Administry of either the artist, the openpower, or the tilters will find the a mater addition to their collections.

R.C.M.

WIENLAWSKI: Concerto for Viallo and Ovehoutes, No. 2, in D schoor, Op. 20

Soint-Solicie Introduction and Roudo applications, Op. 25

(Ravel: Talgane

Igne Store, violing Philiphile Orchestra, Empres Oreasphy, could. Crasswate pa. 5205, 12-46, 63.95

From the standardin of bitmperiotity beright and innel websych, base Stern screet to be expressing with each new receiving. His performance of the Whenevold Conterin, a material to an earlier recording be made with the New York Phillipping be made with the New York Phillipping an BICA Victor, is enclosed an erveral count. Not only is stern's two receiver and his interpretation more every payed but the explosetration more every payed but the explosement, denoticably contained to the Heidelp

Their diver also includes an offers britlisted around of the fights-Saltus Jarroduction and Bondo copriection. But perhaps the chief fostence is the really distilling performance of the Taipane,

Continued on page 64

HICH FIDELITY MAGAZINE



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fairly overflowing with visibilities and unchastral fire in the heat gypey tradition and with an ending that is a real amor de furce for both soloist and reachartent . P.A.

WIREN: Symphony No. 4, Op. 27-See Larmon: The Disputerd God, Op. 24 ("Lyrical Sunis")

### More Briefly Noted

Borthovens Fantasy for Pinne, Cherni, and Orchestra, in C sumer, Op. 60, Securit for Plans, No. 8 (Path/Higur)) This No. 9, In E flat. Collectore Car 285.

The Fastaria (Richter, plane, with the hitegeor Radis Chares and National Philitermonic Orchastro under Kort Sandeving) and Tris (Emil Calele, Kapen, and Restaupevich) have their points of interest, but the quality of sound is shout that of American recordings in the Late Thirtfen.

Brohmer Someter for Vielin and Piecos No. 1, to G. Op. 78, No. 2, to D miner, Op. 109, Augel 35523.

Edwin Flacher at the sizes affers ashie randings, but Gircouch de Vite's vision playing to deficient in both turbalque mail interpretation.

Chapter Bollades (4); Impromptus (3);

Featury-Improvements. Capital > \$403. permitted nor the technique for them different please. Natural, underend mans second in about the only monit of the 18-23

Chapters Senate for Passes, No. 2, In B Ant materier, Op. 35; Ballarle, No. 1, to C missor, Op. 35; Perlamitis, No. 6, to A flot, Op. 53; Variations on a Thread by Horald, Op. 12. Column COLP 254

Totions Nicolatova, a 1967 graduate of the Mooper Community, plays the Voel ans of the composer's weaker works. The other pieces are played by Read Gillels, energetically but managingtheely. Sound touns restricted in dynamics.

Chapter Trie for Peen and Serings, in G miner, Op. 8. Colonerum cm.r 251.

This came performance with David Obstably states, Svianslav Enuskevitday, wills, and Low Oberia, plans, was hermught and over a year ago by Wost-mainster in a much better reconding. The Eller pieces differ, Sci 6 denset's month matter, Calameran's around is denset's re-

Clieve The Rod Popper Ballet Suite (with hypolater-lunner) Congestion

Shelphre h BCA Vistor Las 21.33. Scherchen's retailing of the Chive score for Westminster is him shrinss and proce versarie than Anatole Faturday's per-Intereste) for RCA Victor. But the (pptilize-lugger distribut are masterly, even botter than the Kletchi and Rad-Sinty . Thete

The third to a projected complete re-confiling of Goirg's Leyboard reletations. Menchem Pressler's playing of Book G to very commentable, but his performmore of Bick 5 to rather manacered. Unhem you want this material in its enstrony, the Groubing samplings in two Angel diact are to be preferred

Milant Musice de chuele de man (with Ortin: Musice de stalance). Applave ABC SOTE

A selection of pieces, brought out by Lots Miles in JSM, for an REPresent that are no have been, a reas between a guiltat and late, Here six are played on the late by Walter Gerung, and throp are sing by trease Breakard Mi-chards, with him pressuperinterst. The lathin probably are the more horsell-stely enjoyable. Orig's attractive monte in performed on the viole da gamha (August Wenninger) and Larpschool (Eduard Miller), with the hugger in-treshering also of the suprime view of Marrie Caller

Mazarta Symphony No. 25, in C minor, K. 183 (with Rectheren: Lounse

Overture No. 2; Berlines Overlare to Weervier Op. 1). Liberty our, 19002. Nihalai Rahawita, conducting the Leategrad State Philitamogale On bostra, eprets to find the early, havy Berlies, weath closest to her sympathics. The Momost to unimaginative, and the Bretheven lacks drama. Second is hother than one expects from Reading Appen.

Polostring: Mipp Poper Mercelly Stabut Mater; Improperies Archive ANC 3074. The Moss, sung by the Aschruny Dunwestersbon, is here globe a performancy performance, inferior to that an an Epsil dist. The Improperty and the Statist Motor (the littler with the Ambrene Daucher) are much hetter. Thruder B. Bohanama to the conclusion.

### Prostorius Celitikhe Triving (6) (with Rhows Wabblets Zavignungs).

Archive Ant 3072

The three-past settings of the Protestant Cornen company Michael Prostorius (1571-1621) are song suscentingential by a well trained children's above, somethicsted by Erich Bender, The Iwa-part socilar compa problemed and perhaps written by Lather's contemporary Courge Rhow are accompanied compliance by viol (120 Reputerment) and mentioned by to-corder (Provinsed Coursel). Two of the series are for vial and records shane.

Remitels Overtures La Scale d' orta, La

Conservately Lo Corro Infra, Il Har-Idere di Elefalia; L'Isultano in Algerty Il Signer Brechies. Mercury Lot 501.18

The Minscipelis Symphony is a Minhy efficient exchange, but Astal Duroff encontrolly dow brought and heavy acblended speks of the recording, hardly make this day a satisfying despirituation to Perstinants

Spelin Octore in E. Op. 28 (with Posts Octet), London 14, 1410.

Spoke's Oriet, probably composed shout 1020, is facily and fluret, but not particularly meansable. Moreed Pest, presout hand of the Brussels Conservatates, also is a fine tochaician but a rather minteresting company, Loopflant performsences by the Vienna Octot and excep-

#### Strenes, Johann II's Weltzen, Mercury MC 50131.

The solutiony essential to a truly Vicateen concert provisition of this inforthree parties in generally becking from Duran's interpretation with the bilineapplie Symphony, Performances any contetimes a latt induceson, as in the reprothection. Litters to Omannily; Paulth, and Krann.

Telasbovsky: Cancerto for Place shi Or-

cheretra, No. 3, to B Act uninor, Op. 53 (with Bruhensz Hangarine Dances: Non. 1, S. 6, 10). Liberty own. 13005, Kyla Crevelansan ant only serves tatally hunderparts to the vitizous domands of this much but exceptionals but errors by indulating in grotesque managerium. The sectorstul accomposition by the Sinis incorport, and the applies effer my re-Contraction of the

Tebahavaly: The Nuteracher, Op. 71: Suite (with Mendelauber Mideaner, Night's Drogen: Intédental Magie). Capturi y 5401

This record afters only accuplings from hoth scores (the complete Mandelworks) to available in the Obl Vie reconding, the Telephonetry in versions by, Decold, Debriedt and Redetaild), but Felin Slathia and the Holly-wand Bowl archestra play with considerably finance and they are brightly exceeded.

### RECITALS AND MISCELLANY

BOYD NEEL OBCHESTRAL "Concenter to Control

Conditi Concrete Green, In D. Op. 6, No. 1. A. Scurlettis. Congresse, In F minot. Commands Concrete Counts, in S miner, Op; 2, No. 3 ( Piret Vertice, 1733; Second Vestina, 17857.

Stand Need Openhastra, Thurston Durt,

Output-form of 30138. 13-4. 14.88.

These works are designed In their inverting of the changes in tasks that choped, and ultimately destroyed, the construits grants," I are not note this size to fullified. Could's chargestilles to al course one of these that established the body structure of the concerto gett-10. The Scotlatti paperante a different

Continued on page 66

HER FIDELITY MACAZONE

# The Big Sound is the Decca New World of Sound!



"Say, this really is an ideal Pamaus Cancert Measure from nearly every American exchants are here, with she's Southers' and Guarnier's fromby in hand. What a messive sering second! Anistecoling and beautified works by Bach and Pagamini, Dovid Brockman's direction.<sup>16</sup> 54, 9955 "At last ... just what I've been waning for ..., the great follow up to the Eddy Duchin Story sound mach album! All the wonderful songs the "Stormy Weather", "Acril in Paris", "Easy to Love". No wonder they call Covaliano the poet of the piano?" Bt 6661

WARL THE OWINGS ... THIS IS THE DADOY OF ALL THE DIG DANOS, WHO DID ITT THE GREAT SY OLIVER, WHO HIS DRIVING WILLER-DILLER' AD-BANGEWENTS, WEBENELLER'S DE RECORDED INS OFISINAL CHARTS IN HIS WITH THE OFISINAL LUNCE. FORD PERSONNEL GREAT VEDEVTE. SOLAT LETTENNES!" BLOOD



"Was"II you hear the wonderful hi-  $\beta$  effects in "What The Thunder Sold" and the other sporkling original was de. In fact, the whole album, "Music For Borefooi Ballerinad really shows off your hi- $\beta$  system! Larry Elgert directs. Are you a Barefool Ballerinat I certainly am?" 96.0034" "Yes, yes, I's a Bruchmerghile! Proud of it, too! Hen't let anyone else in the family play this new hi-fi recording of Bruchner's 4th; the "Remantic", and his 7th. Both original versions! Bruchmer opecialist Engen Jochum directs. Peerless performances!" BES-100" "My bess friend secondenended this, and how right the was! Riss Stretch's lovely voice is just pure pilver sparkling crystal ... shoolste blies, all rolled jato one! Wait till you have her sing the great open arise by Mosart, Rassimi, Verdi, Mererbury, You'll say shy's wath thir, abid "

> Maphabh an Bal. Play 45. "Desarded by Gentral-s Grammadian.

DECCA RECORDS



Routeen lyric ploning without bearans.

type-the cochestral american-which grow up alongsade the congrets growing. The two versions of the Combisist prosent never interniting detervorces, has there are not an tables a Mit. Dart's rates areas to tagity. In 1755 even the propord-op version of the Combissis must have nevered very add-fashioned to a progressive composer like Jahren Vanits.

But perhaps this point is not as the pertant in that all three all those structure componities as played with a goal deal of vitality and with fire style. It is not offers that one correspoters both of these qualities to performances of harmore coefficients music. Using reproductions of coefficients the heavy vibrate of the remeatire style. Mr. Deri's players meaning to achieve a bright, singing tems that is as begating as it is rate. N.B.

### JOSEPH EGERs "Around the Horn"

Moscart: Concercio fee Harm, No. 3, or E Bat, K. 447, Mayrin; Trio in R Bat, Bascinic Preducta, Throns, and Variationa. Schubert; Secondo (Innas. Egor); Die Paralle, Bartillis Par Children, Nos. 37, 33 (tann. Eger). Bartetan Elegy for Mippy J. Cardowing Pichade No. 2 (trans. Humbins), Caton; The Harmonice Player (tann. Eger-Romenial).

Joseph Egre, commentation, French harn, The Egne Physics, HCA Victor Orchester, Joseph Romanitacia, could HCA Veryon Lot, 2146, 23-66, 63-86.

and a second such a such the second

if the death of Departs intain left one orandoring who angles explore him as the broding virtuane of the Preach have, here is a young American who apress qualified to had for that place. This operand is an interventing, if memorally anyver, demonstration of what a shifted placer one do with the instrument, particularly to a sole with.

Considering's plans probable is typical of the arrangements in heavy must effective only when it argument the thighness of the ariginal form, but when Eger is playing must written specifically for the laying he has greater waters. The Republic, here recorded for the level time, is a sounderfailly amonding striams pieces, well worth the price of the collection. Whether the Egge or Broks version of the Messart is the best is a question fill let others dejetty. This is at the very loss a fine account of the serve, agreembly recorded.

Egger's hand of controlentary if a web postice fourtrants, with more well-orderted illestrations of the hars's platterical solecodents and wartness everyposes" nor of the modern instrument, R.C.M.

### HOWARD UNIVERSITY CHOIR: Spin

Howard University Chain, Warmer Low-

BCA VICTOR ( M \$126 73-48 \$1.88

The Hengel University Chair slegs eighteen popular spirituals in the conwaterally hermoment artings that have wan this falls out a place in the concert hall These arrangements have envilored same of the privative vigor and endor of the originals, but having said this, one used make no further reservathree. In matters of tener, balance, suance, and providen, the Howard group to the poor of any American college cheer, and the special othernet thebre of some of the sole verses gives it additionof distinction. Like the best Mogen artfile, the characters with an nimely digrdry that configures withing and total. enneterin. Nathagid Dref's Londbar atrangement of Linten to the Lands down off the choir at the best, it such with an etherwally soft some little short of primemanne. R.E.

### LOUIS EENTNER; Chopie-Linst Recital

Chapter Improvement No. 1, In A first, Op. 201 Fendeny-Improvements, in C charge adams, Op. 60; Noctorras, in D fine, Op. 27, No. 3 Lincol Second del Petrovere 47, 194, and 193 (Nine, 4, 5, and 8 of Annales do Pelleritarge, Donatheny Acade). Countrol-Lincol Value de L'apute "Fanal."

Louis Kenture, plan. Carryn r 8400, 18-b. 81-rt.

Very sufficientry, all eround. Everything on this ding is the product of a suspare, experienced purche and a few lockedgins. On the whole shis is not bernoute Lind, drapite the fast that Krotney handles the treladger selfboot my spproper dellectory. Later a to shown with and mythin-over the dated Found Walts, with all its pyretechnics. Three are an eccentricities to the physical of though Kentner's rebats in the three Chargelin palenees maight states a few agesbrown, H & and a reducts that I find enturity conventings but Kratery have dies it with good tasts and it must be accorpted on his termi. In the Samplie 104 he mus to a two prok of possion. This is perhaps the feast thing on a dare that contains make fine things. H.C.L

NATHAN MILSTEIN's "Vignettes"

Winstronks Polynatics Brillions, In D.

Op. 43 Schwan-Taunstelle, Op. 18 Falles Astaciente Jota (trong, Kochands). Barels Revenues aur le agen de Cabriel Fourt. Encountry: Romanno Andelena. Schwannes Trouvervel, Op. 15, No. 7. Bache Air (trong, Wellechy). Nevacub : Perpetusen Mobile, Tchaftevelty: Milloder, Op. 42, No. 2. Deleuny: La fille ente chrustet, de lite (trong, Hartmann ).

Nathan Milstein, vielby Leven Department,

CAPTTER P \$396 12-5. 04.88.

It is doubtful if any of the performances an auropean other "encore" discs will match, bit alters surpose, these for warmath or performance. Millions is particsharty at home in the many helitant absroptered, must antably the two by Wiredeweld, but he also can evalue a apirit of byteless and purity to mach gross as the Rovel and Debenzy. He is very close to the relevations at all tions, yet this betimery any arrows in enhance the quality of these ministrance atthest over preading a flowed or secondary anno. A fine balance is also manufactured howman the visits and Persment encodelly wrengts plane accessparticular. P.A.

PIERRE MONTEUX. "Made of France"

Mathand Symphone Gelly No. 1 Op. 87 ("Protect, Debusy: Same and de Faunt, Op. 24: Marche Haussian ( Andrew"), D'Indy: Forward, Op. 42) Introduction to Act 1: Inter, Op. 423 Symphone Variation.

San Preserview Synophesty Orchestre, Plarte Mondeva, crant. RCA Category Gat. 305, 12-46, 01.00.

Though he is near one of our "grand ahl men" of the house. Porce Mandeus should be mained branch which blood -o fact extilent frigs the catholicity and chroutlagical range of the French needs on this record, all of 9 databard ions 75-rps disc code with the San Francisco Syruphony about a dreade ago. There is much estably in these performation, reportally in the maning Robbing Lines and in Miland's Karand Symplemic faste. Even the second in well also par for recordings of this studage, and the magnetives environment in many of later pre droughy welled in the begins frequencies (which is more then lider was when the manned the medernwith), Soll, this is a light standing of Photos Municess's estiday in interpreting the massis of his earlier land, and at 11.05 to entitler of Countre's mathematibeig bergenten. P.A.

NADECHDA OBOUTHOVA: "Obent-

Marlaulals Others living, another approximation of the state of the second state of the state of

a. 53.00 cmA. Continued on page 68

HIGH FIDELETY MAGAZINE



Memories of Bourbon Street! All time requests of the Patrons of The FAMOUS DOOR. Real Dixie! Volume 4 AFLP 1860



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Oscar Brand, a real hot banjo, by Dave Sear, and a complete new abumi Best Bawdy Songs yet! Volume 4. AFLP 1847

York

New

Ave.,

AUDJO

70

When is Olatankhown? what is abe? That Westminster that commends her? These, I confess, were my first questions on viewing these two LPs, and I was oblight to hang my head in shame when I read on the sleeve that she is " considered both by critics and the pubhis as the outstanding representative of the Rousian viscal scheed. Actually this says less for the quality of Madamic Oboukhova's singing than it does for the lock of it in her rivals. Hem is byno means a great visce, althmath it is a rather intimitiatingly big one. The vocal production is thick and meven, the phrasing is broathless and inept, and purusing is netatings and hept, and there is a disagreeable, most shrillness to the upper range of the voice. Granted that as one goes on listening there emerges a kind of massive, unimagina-tive integrity, the voice still lacks subtlety of approach and variety of colon-

If you are indined to sample one of these discs I would recommend the secand (xwx 18510), which contains by far the more interesting music. It officia suren Telusikovsky songs, all lovely flings, as is the single selection from Durgomijsky; the three by Glinka, however, are simple, folkish, and thill. The music of the other album, by submerged alacteenth-contury Russian composers, is queenpeomisingly two-dimensional Twelse of the thirteen songs are in minor keys, and all except the one with the endearing title of "Up and down the street the snow storm blows" are hegubrieus.

The recorded moved is sumptions if one compares it with the only other available samples of this ludy's art, two hideously engineered Collisseputh discs entitled "Tohitknydcy Romances," texts included, No DJ.

### TRO MUSICA ANTIOUA: Recital

Anonympusi Chansons (9) from the Notebooks of Morgaret of Austria, Tiel-man Susato: Donservy (10).

Pro Mallen Antions, Sufford Cape, das, Ancieve Anc. 3071, 12-11, 85.88.

Margaret of Anstria, governor of the Retherlands in the first decades of the stateenth century, was very faul of mule. The present dismoss were chosen from two munuscript collections made for her They and mustly for them or four volces; some are sing and the others are performed by instruments. All are love wongs, and most of them All are love words, and must be them are monomful, I was especially struck by the lovely Pairwang add, written by Pierre de W. Roo, one of Margarer's favorite componers, and the poetic Anfine most, wildle text is from the Song of Solomon and wheley componer is unknown. The Rep Musica stages have an emmerite of presentation high tomation, an in the attemptions if me fait and, but otherwise and their attempt bapable selves.

Else chinese on the other side are from a collection published by Smath at Antworps in 1351. This is a pleasing and lively group of places, performed on the kind of instrumpts that might have played them originally. They might to he especially interesting for ballet people, or anyone che losking for adhentic Renaissance dance made. NB

### ELISABETH SCHWARZEOFF- "More Sames You Loce"

Gruber: Stille Nacht: Brahms: Sand-manuchen. Unick in atnem kühlen Grunde Franck, Panla Angelicus, Himperelines. Weilmachten, Traditional: O Come, All Ye Faithful; O du Johlichg! The First Nouvell. In dulct inhilar Van Himmel hech, I Saw Three Ships, Marin. auf flam Better, Ein frahlicher Gampy

Ethaliseth Schwarzkepf, upranor, orchestrn, churus, and organi Charles Mackermus cond

Ancie 35530 12-in, 84.98 (12 \$3:98).

This is essentially a Christmas album, nine of the thinteen songs combrating the Nativity. Angel has taade a handsomemusical package out of these traditional songs, hysions, and carris by surrounding Whis Schwarzhopf's enquisite vocalism with chural and instrumental meembles in arrangements by Charles Mackerns that are at opce fresh and sophisticated. One or two of the grangements burder con the broate, but they stay at a crossid-erable distance from, the Hollywoodharoque treatment

Only one of the share has dot been transformed by Mr. Mockewas; Stille Nucht, which is sung in its original form (according to the record liner) "for two sole voices with choir and the accom-pacinent of one guttar." The melody differe slightly from the common versions Miss Schwarzkopf sings both parts of the thet with intruste simplicity. Elsewhere, the ranges from month of excitation (Ein froblicher Genong) to tenderness (Marm out dem Berge) to trenderness excatoment (I Sing Three Ships anny at a brentlitaking page). Very occasionally her veryligh becomes refined almust to the point of preciseity, has figure units. 化肥

### SOVIET ARMY CHURUS AND BANDI "A Program of Facorites"

Glinka: Pijlka, Balvioneins Curling Waves, Koyals Emclion Proachoo: Free Will, Physicar sungs: A Torest to Friends; Shig, Little Nightingsle: Wait for Your Soldier. To en Army Man. Fulle songe: The Cliff on the Value, A Soldier's Parmeath My Propert Dubingshike, The Little Belly From beyond the Island.

Soviet Army Chargin and Band, Beith Alexenilers, curd, Moerroe ar 520, 12-in, 84.08.

King true an-calipile popular" anage here are closer the Vienziese seperatis them to dur men correct but tunes, dant they are igito delightful and are using by the lundred-strong chorus with a relish, discipilace and skill that make it his to the hast male counterparts in the West, And until the group gets to a couply of the clonents of this Don Cossacit oasembles. The pressure of halalancas and necordigits in the hand gives the accompaniments added color and charm. Of thm-"classical" somes, the delicious Glinka Polka is in as "popular" a vein as could be wished; the everpt from Kovalig Enclar Pagachue angles that this is a better work than some other contern porary Russian opens that how bean recorded, and Anton Hubicstein's Curling Water from the Perstan Songe cycle is surprisingly, beautiful in its orientals inna. It is sung with great sensitivity by Artisr Eisner, hass, the best of the many fine subsists. Two Crech folk song ate sung in the original language. The sound is a little mulfled but not really unsatisfactors H.F.

### More Briefly Noted

Ballet Munic: Enter the Bollet," RCA Victor 1.54 2141.

Indifferent performances of ballet music by Cluck, Verdi, Saint-Saëns, Tehnikos-sky, Gaunod, and Ponchielli played by half a dozen different orchestras recorded at different timer and under differout conditions. The low point is reached with the longest relection, Piedler's Boston Pops playing the Fann ballet music. An inescusable record of this late date.

Frank Bogger "The Spiender of Secred

Song." Word w 1001. The singing of Frank Boggs, hars, is tonally hundsome and virile; but the atrangements of these gaspel hymits and other familiar religious images in anavely aweet orchestration & la Mantovani probably will make the disc of limited amiest

Alfred Dellers Shakespeare Songs and Lan, Salas, Angul 45010.

It is interesting to have the autings of Shakespeare texts together on and disc, but this is a pleasant collection or Elizabethin airs and late place per as Ali Ind Deller's enumerimity and Desmond Dupre's late playing

### Bronislaw Cimpels "Imperial Kreider" Vag va 25150

Original Kreisler compositions and transcriptions for the vislin played with discreet orchestral accompatilments fronti the Pro Musica Orchestra (Studgerg) feel by Curt Chunter, Gimpel, gives a line account of the masic, but Refuel Drainst displays greater broadth agalitabigance on -li Mibrennig dime.

Colomar Novaes: "This is Wovnes." You

oge 1. A "Champile," helpig a selection from A samanpoe, neing a severing from Noones' previous recedilings of Boetho-ven, Chiepin, Mozart, Brahms, Schu-minn, Bach, Debussy, and Grien. Eg-traonlinary piano technique, complet with singing tone and very fine coloristic philules.

Continued on page 10

HIGH FEDERATY MANAZINE

Texts of the pogne, from which the post-enders frequently depart, are to-LO

#### THE LIVING TALMUD

Selections in Hologor and in English, rend by the texesheter, Justah Caldin. Merron 12-12 12-08. \$5.95.

Here Professor Caldia endervors to prenext to the public a glumper into the habyviniting emes of Jewich writings become as the Takend. These writings are the passengented (or som-Biblical) Hohrew Interature written by learned and discout validate of a period compared (cost about 100 B.C. until the year 800 A.D. Perhaps my could describe them as the Jewish counterpart of what Christians call the Church Pathans. One antable treation found among these writings is the Pirke Abot, or Window of the Pathers, in which three is counterable discreption as to the exact gampaling of many passages in the Old Testamput. Each rabbi hats the systems of through who preculad him and complashes with his own galation, these adding to what the next generation wanted have to intern. It actually is not very couldes a distanty-school course in Dilubest critichan, at beet as far as procedure is concerned. Much of it is Materically important; some of it is interveting; and if a paul deal is dull, so also are record of what is found in the Church Fathers station indentified barraters

But Preference Gablin is quite aboutnly the Bud with his whilest-explainly the first sugainite of good teaching. His states to academic rating than dramatic, but he has an actingible quality of seeking attention, not just swarpy atfeat of eaching Talasachte writing easy to betten try at least I fround it much antige to lipitize to the record than to read the same material in book form.

In Part II, on the second side of the reverd, Predenor Coldin gives a reaching from the Picke Abot in the original Midnate Holever and delivers an interesting account of His language, which considerably differs from Bublical Hohow, In the course of conturies the old harriers hapeneds Jew and Centile in many ways books down, and, as an monthable repult, many Greek and Latin words stept tats the Holorew of the cuty the hospinge also had undergone a change in propreselition in the process.

This record will be of interest to dewant Jews, reportally to relative and oth-eve who enjoy the higher instance of their religious stations. To some retroit 0 salare abanable (extenses any student of cellging, where number is insteading on mpidly these davis

WALTER B. WPERFY, S.T.B.

#### THE SONG OF SONGE THE LETTERS OF HELOUSE AND ABELARD

finations in Chipp Shins and Claudo Robe, with Namey Windowite, CARDODON TO 1008. 12-10. 13.05.

JANUART 1958



Annen Barten an Controlle Barten Barten an Berten Bert





States - Landard

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Behind the justapperties on a single dite of these two quits unlike worksope concrebed have as an extensed, new many, and theremit, kinds the other the sulf-constitues letters of two introvery intellectual, and ill-fated, herers of the twelfth ceretary-arcas to be the editerit convection that only such relatively prestructions factory period the full communications factory period the full communications factory period of moders wetters, the false constant of passion to Shaherpanes, not to speak of moders wetters, the "deep currents of passion" also seems to have your, and purlays it is underportant. In the exercise from the Some of Songe

(align available, spart in limits Hadaww and English, on an Experiginary Anotowner recording) Clatter Blaces michos a otor Similarisis matches (if contributes a life halled and heavildlered, which a country girl at such a unighty patentate's count very well might have been), and Claude Rains to a fire, Schmann in all his glary, A there were experiently reproacess the Danginers of Jeremainen. It's supmentia to grave exactly what's transpiring, but is over two thansand years us party, hot is over two thansand years us one's offered a very transmissing capitantion of this obscure powers in any case.

The explanation of the britters of Hebring and Alifland to bishesteral fact. The remaining story of their length forn effett and - maintain - the dat Inches lin. sesters of this meanil. As a beautiful blue stacking of about theres, Hiladay was similated by Poter Abriani, destinguished theologian datas twenty yours has under and a livinger in the hopey of her much and generalises, Fedbert, a convex of Notice Done After the birth of their child, a classication marriage book place. Hot to suberfree with Abdemil's catter, Milator then withinger to a convert, of which the eventually became abless. Chegrined by the whole taxa of events, Fullment had Abeland sciend by those and endpoint. The farmer horres did and again must just they wrate to such other, thisting proving out all the emlattered maginine which even a num's ware could not athles Athles and affing her, in effect, to just her stad on higher things. Abriland died in 1142. Helener in 1104; they are havied in the same touch in the country of Pier Lachane. The tiple to a surry one; would and even statements but these exhibits any cause tately seriained among the world's greatest have latters, and pressonably all the world loves a larer. J.C.

### Alm Receivede

Dr. Watson Moster Sheelack Halmon, The Final Problem, Landon 12, 1308, 12-m. 83.08.

Farment Parma that Tell Great Markes. Deces 15, 9048, 13-48, 94.88.

Robert Oraves, seading from his party and from The White Gooldree, Cardinan ve 1088, 13-49, 85.85.

Astron Kranners, semiling 160 over Sportable and other verse by Posts of New York, Followays rt. 9743, 12-40, 63.04. Listen and Leave German. Daver Publacitions. There 10-in \$4.95.

The Word Colourille Story: A documentery of a child's basile against budernic. Followaps on 2000 (pendeced for the American Concer Society), 12-to. 05.05.

### FL MAN'S FANCY by Philip C. Geraci

"Capters on the Counds." Harry Farmer at the Hampmond Organ, Landen LL 1786.

Another the evenest even of mighty Wars basers, a similar blenet of jam and classites an the Warhitzer's electronic second courts in community refructions. Harry Farour is containly school with the Hammound. He sign through Monteen Hat Dence and Swange Hiner with the same fardily that he beings to Hernhi's Zonno Overtone or the eventure from Resinstructionst appears to be complete and unfertured. It sevens alonget assessible that anyong could here up each a contransmit bearing of rising and falling Band matter as Harry dags in Zamps and, to lower degree, in Stream's Photosto Palls. The recording is excellant-adapwide to mange and dynamics, insignificant in distortion.

"Corrected Meets in Hi PL" Johnny Dudy at the Weststeer argan. Liberty car 2023.

Industry Duffy sits a delighted extract of supply-shifts prop and housers with halling suppo-while stylinglist. At both ha's a magnitum. His beams is revelopide. The Scottish Modify downess with free and indic, and his andhing bilabirs. (Verseway Mediry, Joint Medify) are as restlanted and trader as a bile system reveloping. He birefles the beyo at an analogical field of the secondary of an analogical field of the secondary of an analogical field of the secondary is spring revenue. He birefles the beyo at a scattering the birefles the bary of an analogical field of the secondary is spring to a scatter of the secondary in a full-banderic field of the secondary in point as reachers displaying contained.

"The Electronic Organ Witnesley of Mark Look," Cables Crest cn 2020.

This is a root of closerantration disc ap which Mark Look, a relegive newstware to the recording edult, plays two pieces earls on the do saint popular electronic organs currently in uses the Baldoch, Caus, Rammad, Lowerey, Thurson, and Windowe. Organ lowers will had the recurs a (top-in-test dimensionlessing display. The mode is light (*Eta Me Again*, *Tee for Tan, Dandaratis*) and well fixed to the particular instrument on cheplay. On the first hand of ado A. Loub plays a low strains of Tan for Tanan each organ. Caldan Crest commerce have matched this show-off means with some matched this show-off means with an each organ. Caldan Crest container's have matched this show-off means with an each organ.

Continued on page 76

HIGH FIRELITY MAGAZINE

## World of Entertainment

#### Here at Home

"Par a Losy Afternana," Netl Walls. Vili 13 1101, 83.08.

One of the loss optimizing of pop plane l've beard in a lung time. Neil Welle has taste and fechnique. He knows the chaster, jerz, just Breachway-and digs into each for opecial effects. His secongenicies are investive and colored with eaching chords and a discrete background of patter, has, and drame, Mr. Wello may well turn, each drame, Mr. Wello may planed pop glantist to lift the antercorreplaned pop glantist to lift the antercorreplaned pop glantist to lift the antercorreplaned pop glantist to lift the antercorre-

"Fabrahous Vintage Years in Music." Variana archeotras (new holew). Kepp-This contributions monoted propylage of peop taxati anyophes seven LP records and ranges from the Niterties to the propert. The best of the lat is The Fabulaus Cay Winstire (pre. 7000, 64.05), which fortunes the Cherry Will Songurity and the New Blues Goy D's Orchestra, Taxard and with its attractive , song bank, it prospate a wide selection of samp, wellplayed and young, without the humaning that can so cashy desirany this monte. Servers of the Falmines Thirties (100. 600%, even disce, 17.00) to there as far as It must bet it hementably globs shout darify to swing. David Rose gas! his orchestra concentrate on the decade's orget stuff. The Fabulance Fortier (122 \$2003, two discs, \$7.86) and Fabraheur Felter (all 6000, two diles, \$7.98) are entrunged to the plasmid Roger Walliams, plan orchestra. I wish Mr. Williams cancel mape for the manie and loss for his plane tablery.

"Myrns." Myrns Fes. Liberty Law 3050. \$3.08 Myrna Puz, a holy with a splitted veloc, has drive to her shythm, masshers and electrity in her hallads. The dightly gutteed quality of her cone is confirmed advittly for demonstic emphasis. Miss Fuz obviously heliover dig oversi her antipure a periodeneously, and due to well supported by Manty Kelly and his orchestra.

10

"Margaret Welting Gale' Places." Det

Mon Whatsage has a solid because style for rhythm sampe that suggests Ethol Merman. In addition-and this way a phrasant surprise-she has surveitingst for each quanthees as Ouer the Rainligth. A few times, endertmentely, the had to light the artheotic.

"Blue Star." Kay Start. BCA Vigher Love 1840, 63.69.

Kay Stew's obsilient, downing style has been none of its indeptions beamer, promi-

### Nobody Can Imitate Rudolf Friml Except Rudolf Friml

RUDOLF FRIML, where enderstand or so the other day priving that no room to large enough fitt a mon who chings to the operatic technique of stary telling. Mr. Frind theiretically was asysting his adventures in the recentl world, under the employs of Westminster, Actually, the new record (Friend Plays Friend, Senturing the energouser in conductor of a symptimery archestra) was put a small partine of Mr. Frind's taly as he man aged to hesp-almost Merally, as well as figuratively aver nearly seventy years of his life. For the creater of twenty-The Vegelpond King, The Firefu, and The Vegelpond King, The Firefu, and Turably Inn among them-starks a cusversation with the desligited freezy of a The Pan Alley composer selling a song at the plana,

It is not encugh for Mr. Fritsil to say that my archestra's temps lagged during a parties of his Three Muslestory. He stands, pronces, and goes through duding methods by explain the spirit of his scores. He is not satisfied to pressure that believes danging weday is sugrary ful. He bicks back his chair and gives a belarious metation of pitterbrigging and cho-cho, his small, spry horly skillding and bepareing into ferralture, his this hair flying, his feared over pleasaling. Only the whypy mostache and large cars pamain unaffected. When he mentions one of his songs-any Deathry Servende, Spaphong, Indian Lote Call, Rose Morie, Clearing Mts-he sings II, and conducts an entry archestra (quite a large cons. htm

As might be expected, Ms. Frind has strong convictions. Others may tout the Breacherry: associated and jacs as Assertices art forms. The Program-barn component literally more down his breaktile near. "What is the Breacherry unstability he decentrels. "It is a play with a little munit. It has diagons who are clowely popple who can peet over a comply range, who have rest much varies. The melodies are not for stagers, they are for creating of the press. And jace I have jace. For lighting jace. It's not much dealed to a thing of the press. And jace I have jace. For lighting jace. It's not much. And monitolizes. Things will have to change and go limit to more arctions mark."



His sange are for singers, not crossers.

With only the briefset of passes for breach, Mr. Frind several as carors, Ho houses a comptoer by arctifices, Ho fathers, a halos, "had a few schwarzenes and west out and brought a plane. When you have a plane ensure must play." This path had to the otasservatory, the sections of a hallet company, the study of compactities under Domain. As a conrect plants, he came to the Hubbel Starge outly in the contrary with the Couch visibletic jue Kielechik. But it was an anti-convert true to New York Ony that he attracted attention as a out of mentpal fresh billed as "the greatest improvisation dury Memori." He weaks hang out a few short dimetral links then members of the mathematical links provinsitions.

Mp. Prind at this point in our conopposition gave instations of binsoria piching up quells, studying three at the pilling, and playing. "It was very gift," he conceder, that it legst him alive while he even any writing.

Life in the exception world began as english have been produced, in a clock of temperatures, He was adjed to write an operation for Ecosys Theorethy for her ophent ecohemisms a single counteres that The closest due query to produce them. The closest due query to produce them others due called him. That furney-booking pay." Matual accur even admitation.

Mr. Frind because drammy. He pulled at his cars. 'I add write, you knowl, 'He sing two the parchets of a quarty fachet and exhausted pages that boded as if they had been ripped from coall setebooks. On each of the papers was proeffed coasts. 'I will never stop writing maste, 'he vorwerk. 'But,' he added, 'I will be coastig that is far real dragons, not executers.' ing rhythus, and hannowen touchers. Just right when company is teachy flar juligloss background.

"To Southe the Savage," Robe Bassin, Dat m.r 3060, 43.98.

Babe Register, adapted by a contingent of strings, makes his tower one sigh, whenev, and cost through I Survender Dour, Body and Soul, Another Loca, and other residedies of a <u>strifter</u> stores. He would around even better with a late of brans in the barkground,

"Per Boone Sings Irving Berlin." Dat m.r 3077, \$3.08.

The unaffected and pleasant Mr. Bosso complaints to drift every from the period. extituble-galaping works of zork 's' soll, Here, however, he dean out seem quite pore of his style. He shows to better advantage on Hyperon Wir Lone (Dut m.r 3003).

"Mooulight and Shadows." Renair Cellar. Dat us.r 3000. 03.00

An example of two nearly confinering optiling the nearly linear, Remain Contarline on examining good, feesh vedge. If a verse last angumerized by the orbit charder, the model has to a class array Charle Markowsis, but as legard have to a collection of "motes samp"-Corolina Mann, Shine on Harvast Mean, and the Markowski braves a good dual to be desteed.



"Passection." Colombia ct. 1058, 03.96. This size version of the television show is meaboard by excessive generation and two faits dialogue. Also: Wildor's none, mereover, is particularly inspired.

MARRAY SCHUMACH

### Foreign Flavor

"Boer Corden Manh." Will Clabe and his Orchevera. Louden 44, 1714, 83.88. That beer toping knows no frantiers to attested by the prosence of Corman, Armtrian, English, Robertha, and American chiefding outliers in this captiveting abhum. Convisionity is indecent in the monic and in the warm, arcstellan-laced treatment of Clabe's new. Their rolliching version of One Two Dvink Up is strendly generasteed to drive you to the stein. To top the toest, Landon's engimeets have never have in better terms the scened is spiredid.

"Bullring!-Lo Fienta Brove Vol. 4." Barela Teurina, Gonaro Nuncz, cend.

Andre Phirity APLF 1835. 65.00. The Bando Taerina of Mexica maker construer approximation the Andre Phdulity beams to ments of the curvials. In this fearth time tournal the builting, the Bando serves to be Bagging. In any case, here they present a spiritient rentheres, here they present a spiritient to passed of a george of passed base to a meand rate. Unless you are rabid to phased the design of this prese, you would do were they formed to the presence 1 or 8 of data were the feast with Velume 1 or 8 of data were the feast of the presence 1 or 8 of data were the presence 1 or 8 of the presence 1 or 8 of data were the presence 1 or 8 of the

"Holiday in Specia," Low Roymond Orchestra, verals by Dione Castille and New Amoral, Top 1, 13855 91.04.

Spaller Tree is a series from a prographical malities of character proparties, for host thing half the orderctance on this day had forms the Thorton Petimonia. In middison, the mendachin'ed coholiers adorsing the derve querts a semilerers rectanno and a sempo-both about as indigeness to Spale as indiced. These staggering quildles adds, this

There staggering quildles adds, this assortment of Spanish and Latto-Americon tunes is extremely well charers flure is set a publisher among them. From the Chilem how may by by by to the Maxwood, all are classics of their ball. Low Reynmont's consistion play with veryer, and versions Constitute and Amaral day with growing the that the No any will find Span in this restored

No and will find Spate in this retained of a record, but no one will fail to find a full ratios of cuterizaturent. Tylphieces in the how more the otherwise bright annul.

"Japanese Shriches." The Shan Emerschle of Tairwo, Rumos Dan, cond. Capital v 10123 \$4.95,

Compose Density Corver Brites, here to Jopon and absorted in England, has fashimed two groups of two post-Tople Improvement and Yalo Postage Messally they impress me as a later.

HICH FIDELITY MAGAZINE
ing scho of a seb-changed Vaughan Wijhours. Most Britton has orchestrated her works for a satisfies of Western and Jupments instruments, and the resultant stand, a group-the of East and West, is peoplitudy evocative of present-day Kippan. However, Miles Britton's shadings are perhaps a mite too deliceto. Japan to not a local of inital transpullity. Her calm partrait of Tohyo's turbolent Cause to a far cry fram the hars-blowing crewd-awieling Class of my memory. Nor do her vignettes of the obler Yorks period do justice to the intermittent vialongy that convergined it. But this is, Bertally, surping. In fand effort, the works are moving and beer the stamp of a high model integrity. Both the compener and Capital deserve a loud hangef for this pertrait of a country that many an Association Gi has learned to have. The second to experiment, and finness Dan's reading can be accepted as definithey.

"Ports of Pleasure," Les Baster with his Cherve and Orchestra. Capitul y 200. 64.201.

The very densities of Les Baster's Asten proto-an represented in this system of these temp-prever-any he polged from the gay proteat he polents of Shanghai in a motor of colorations teshing clickies. A hispay richshaw hay legals 's faitstimmed English hady to search of proaled treasures." Well, in the Shanghai I have, fait-skinned English lacks were completened by their alsones and the only hargetes available were to geldinght alleys all Bubbillog Well Break and Nonbing La And torkey's Shanghei, from all reprints, pastguess all the gatery of a large tractor factory. "Maputes Baster's "Turn of Fleasure"

Maretres Baster's Three of Pleasance' converting a shelt and superficted wanted travelengts. Press Hearginning to Safgue, he paints highly cohered pictures of a hash Hallyweed work! that never really wen. Notchass is there as indication that he has drawn space the actual readed helium of any of the areas favoloud. The record's most realizing articlasts is the statesing aread that frames it.

"Regularious Aves Lions." Linne, with the Bar Publicus Tro. Varguard van 8012, 94.88.

Lines, the threaty, multilingral Vienness angleted where name is vienably a hyword for Constructed angletetestes, returns with a repertary of Preach among of suffer energy and Preach among forme during gradity. But Lines toforme durin all with a kind of built-in workings and the Bar Bahdese The apports hay with amonth self-allowment.

"Beleventhe of Rome." Bod Wharton and his Massette Street Players. Laberty Lar 2000, 03 05

A begatting assembles herpoly free of datasets, works field Whertan's fastmate researching treatmant of this set of Italian archeology. The trains-of the order of Articology Roma and Long Roma-off have a stab Italian adjustice, and all have presed researchably durable.

Wherten, a Bolgiza who has served a later as Edith Parl's accomponent, directs his men with a light but firm hand (However, stampane in the group is a vertuese whistler and Wharton tends to overdo a good thing by featuring him to every prepagement. Nonetheless, the disc is conjugately intended and features clean, well-holizard second.

"Tange." Proles Caress and his Dri Prade Orchestra, Audio Pidelity are 1838-55.95

After an ardam jacket description of the target as a "glassical hackeling for the game of lowe and desire," and as "recentible in its responde approal," Andia Fideliny docum't discoption the intcyvel purchases. A terms of dance disgrams on the man jacket dance over the most tangle-forted type how to jain the Vicenitz-dirous of fom.

Musically, the recovered Argontine

dence to adminishly perved by Pedro Garcia and his prehentry. Garcia's direction to anyple, the orchested tono to mave. The engineers have shotted him with harefuters gantes.

"The World's Powerks Love Senge" Mantovens and his Orchestre. London 14. 1748. 03.02,

Sings this is the indefinition with Manipustic twenty-first LP my Lancins. Its is anticentratefably receiving low on materiality hypers the properties of each twels as And This is M. Beleveed and Cachana's At Descening, Low of Manipowal offdisport threaspleves in this version of chestral mandews, others with more public case will detect in it put another are of tall cases. Q. B, Bastricharia.





Indexsed th private of schedule, this important stores tape of one of the forward chamber works of our time introduces you to a series that abseries are the series that abseries are there of the new Store Age Library of Contemporary likes. These recordings works the device action is think work to device action by articles of the first rank, and custom produced. In jump you must have a the series of the first rank, and custom produced. In jump you must restore the series bound of holds the work time-size bound of holds, custom produced to be a book too, with time-size bound of holds, club. White for histories on two series are large bound on holds, customers (Also coming the Stores Age Large Barries) for other time store for the processing the store op and the stores, or order directing Bartish, role, and order direct

STEREO AGE RECORDINGE



### FI MAN'S FANCY

Continued from page 72

"Sounds of Stress Reflooding." O. Winsten Link Reflowy Productions. (No record number.)

"Ballwood Sounds-Steam and Direct." Andre Fileliny avap 1843.

Reflected however, by secondings have long held a second place in the bearts of dynch-the-the-wood high-fide/By address starply became of the pure volume of cruching sound they carry. Here are two warthy additions to the cofficted repor-The O. Winston Link production Baninger. is perhaps some realistic to that it cantates long passes tilled with the reasols of fur-distant stream regimes pulling up steep inclines, cars accepting and combing in the switch yurd, accountinglating tends attendants occasionally bergotting not to cough, and evening whyl, man and innect nears. The recording is good on the whole, but undertunately it days ant quite anyther the drop, coversion themering of a real steam bacassifier phasens full-theatint accord the bond, Three to an mith lack on the Andis Fldelity disc, which has some of the most everyperverting ( differing h at timps everinsided) locamentive pulsations on record. The in-between passes are fewer, and are filled with story interveting-and many-refred chargings. This is down at some slight express of realism, timer high-level tages have been spined so as to produce an alarest continuous. Ediago of email, and one brops anticipating a and the lot of

"Delives of Dagshad-Music of the Middle Rost, Vol. 2." Malaximum R3-Bablast and his Orizotal Enversibles Aurilie Pidelity APLP 1834,

This provid is even paper, investing and intriputing then the first vehace of the errist. Post Sold, The secondard tenor chant above chathing contacts and tentrafiting ferminic background squarks is program with goelly contactured, and the crisp revealing date full parties to the Alashigadia apell cast by Makaza and El-Bashiga's opparently teches hand of most El-Bashiga's

"Grant Wurktow Pipe Organ-Vol. 2." Loss Barry et flue Chickjo Hude Reak

MERE ADD FEREN AND 1524 This record might well he called "Music to Shate My warm it was her the dilhally a states might rationary when Leves Herry relevants some of the more piending percenting accordings and the Hale Bink organ. He has a passon for hefilging molectly phones with bags, drame, singlehelds, shines, and anything due he can get his simble linger? on. The much is and altergrather distributed, through sentimetry door strap a bill at thinks. If play loved in several hand, also bridge rings, break-taking dara-off organ, this dies to decidedly your did. The recording has have well engineered-the enged effects are desphingly moli-tis-and my pressing hada't a flow.

## THE BEST OF JAZZ

by John S. Wikon

TOSHIKO AKIYOSIII: Her Trie Her Quarter

STINTTELE DIE SLOE

After two years' stury in this country, this young Japangan plantist is developing a strong, assured attack and a starty of form son overleast in her eacher with. On few of the eight observations on this deep she to second by all merophosids from the to second by all merophosids from the the Miss Altreads would have been completely overwhethers. Between them, however, they make this an upustally subliciting data.

#### BARRY ARNOLD AND HIS ORCHES-TRA: The Jointone Mystery Road JAREPORTS 1270. 64.86

Aparchil is a Sweedigh arranger who has membled a hand which includes reveral of Sweedon's best jamman-Arme Dommerus, Bengt Hallburg, Ake Person, are conoug them. It has the doors and power that are hallmorks of Teel Heath's faund has a mark stronger pair argan, it sherms through these performances with descredily arrangering someance, oringing with a more prover that hasn't been hand in on American band in years. By head pair ten't really duted. It her pair renewl to provides,

BARNEY BICARD: Jaco Hall of Forme

Longery 3072. \$3.00.

Bigand's mallow, New Orleans clarinet, which arranged to be reasoning structure desights when he was will Louis Arms storing asseral years ago, releates in full flower have as part of use of the finest mull propo to appear as discs to a long time. It implying facility Grane, who has a completely previous way of playing a slaving traditional transpt and is a regard, straught performer on the melversatile planets Burt Jahante, a hatthy arblebres providentilly and a separate drummen, Charles Louising There are re-Britten of Bagani a geotetation with hash Ellington and Armitting; but the getend tame is direct, and fining copped by a homeiful articationium of Mand Indiam.

#### JOHN COLTEANE, Colores PREVIES 7105 44.88.

Column's hard-tourd, literal trace manphane moves with authority through the warner trenger have and doings with funcleating analytheres in an annured treatment of a balled, While Mg Lody Sheeps Calitrane severe to have a greater search of form than wanty of his blow-happy contemporaries, and he has the apt recontance of a poir of forms-conference phanish, Red Carland and Mal Wal-

HIGH FEBELETY MAGAZINE

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dmin. Collitate also is capible of humility, as he demonstrates on one ballad, but he is an infinitely more developed and better integrated performer then the two hoens which share front-line daties with lum, trampeter Johnny Splawn and bari-tone samplanist Sabib Shihab,

DIZZY GILLESPIE AND STUFF SMITH Vanva 8214, 94.08.

Justaposang two striking musical memory alities is no guarantee that anything of convergionce will happent but in this instance Gillespie and Smith spork each other through two longs charming, myagely avinging performances-Ris Pakisfon and Purple Sounds-with the result that three less distinguished afterts can he overlinked. Rio Pokiston, in particnlar, is a magnificently surdanic, elec-trically charged mood piece built to hautting heights by Smith's slashing, en-like violin attack. This is brilliant and Breath-taking stuff.

#### TED HEATH AND HIS MUSIC Tothate to the Palminus Dorseys LONDON 1743. 81.08

Brisk, applent versions of tunes pasoefsted with Tommy and Jimmy Dorsey, a few with tensions jazz roots. Alto savecentive re-creating of Codles of Nondles is probably the must upt memorial that Hinny Discsey could have.

#### ANDRE HODEIRi American Jazzničn Play Andres Hadel's East SAVOY 13104. \$4.98.

Hadeir, the French composer and critic, has written a writer of "essaits" performed on this dire liss a group which includes Eddie Opsta (pluging carthy, blues-bred vibraphone), idrees Suliman, Donald Byrd, Frank Relak, Hul McKiesick, and Robby Jagar. Hoddir has hit a happy middle ground between the outright blowing session and the gramped quarters of the too tightly written work. He Seaters his attention on the manufile, weaving his soloists in and out of a background periten in skillfully idiomate izz terms. This, admittedly, is one of the older forms of jazz but it lans fallon nut neglect annung undernists. Hattelf and his American musiclass lave becaught it strikingly hack into the spotlight on this dies.

#### JOHN LEWIS AND SACHA DISTERN Alteriumin In Parla

ATLANCIE 19217, 84.08.

licenteled in Paris, Lesvie is heard with. two munically personable French jūzz-men, guitariet Distel and tense auxo-phondat Barney Wilco. Distel's playing is thanglutful, measured, and cheeply cipressive, Wilan is aggressive, hitting, and has a commendable strugental senae. The eve all style of the group might be standied an unsurseted blockern juzz Ounriet-flowing but contained, free bat controlled-with solus that are strongly stated but never overstated, Willow, at nineteen, seems particularly worth watching.



TED HEATH-big band hI-H

TED HEATHS

TRIBUTE

FABULOUS

DORSEYS.

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ALL

VELVE

Rattinard

TTO BARRIET

Bank Goos to Taxing Annes Polka; Al title Joit Word Ball; Swanos Rivery Platicato Polkas Meetcam Hat Genera & attant. 11 1738

THE MENTS FEBLORBEL

11 1771

Nurry Former



The Moon Cot In My Eyra; Noon-light Cockard; The Moon of Mana-acera Moonlight in Vornant, Bins Moon; & ellight, in Vornant, Bins







Will Munt Grithesefer Husikisorpe der Schutzperizei, Dortmund ans Berling Bauzenbaptsle Radio Voger

STR WEST ESTH STREET. NEW YORK IS BUT



HIGH PIDELITY MAGAZDIE



Acard Beauty

HIGH FIDELITY DIROCELAPHT No. 38

# Debussy: Orchestral and Vocal Music

#### by ALFRED FRANKENSTEIN

Every forward step in the art of recording contributes especially to the advantage of a composer like Claude Debussy, whose music depends to so marked a degree upon whileties of shading and color. An intelligent choice among the numerous discs of his works can not be determined solely by sonic meries, however. Some interpreters are notably important Deinsuyans, and an old recording by a Monteur or an Ansermet may he preferable to a new one by a conductor whose understanding of the munic is lets penetrating. This discography will attempt to evaluate all the factors-including such extrangeous but important matters as the inclusion or omission of song texts-that should influence a choice of recorded versions of Dehnery's occhestral and vocal annie.

Under the heading of orchestral masks are included Debussy's own works for orchestra, and piano pieces by him orchestrated by others. (I firmly decline, however, to take note of all the numerous orchestrated versions of *Cloie de lune* from the *Suite Bergannaque*.) Under the heading of vocal music I include songs, choral pieces, and stage workt. Debussy's plano pieces and concerted chamber music will be clealt with in another discography at a future date.

When there is a choice between two or more recordings, they are listed to descending order of preference. All are twelve-such microgroove records currently and generally available in the United States, anospt as noted. Bacoryls not submitted for comparison in this study are marked with asterists.

Except in the case of the Children's Corner, Debuusy's only work originally published with an English title, all thies are given in French regardless of the language used on the record label or jacket. In incidental references and in listings, the unwieldy title Probate à l'aprèsmité d'un jourse is abbreviated to its last wurd. Dates given are those of completion according in the curvent Groce.

Comment is provided on certain relatively obscure works, but it is assumed that such compositions as La Mer, the Nocturnes, and Pelleus need no discussions.

#### ORIGINAL ORCHESTRAL WORKS

Manche Ecossist (1801) (1 Edition) This delightfal, little-known piece wai first written as a plano duet and pilblished under the unarvelous title Marche des Ancieus Constes de Ross, dedlée a lear Descendant, le Général Meredith Rasal, Grand-Croix de l'Ordre Royal die Rasal, Grand-Croix de l'Ordre Royal die isont 1908. It is not simply a transcription of an eld Soutish tune but if symphonic movement of some size in a free variation form. It sounds more like Borodin than like Debussy, but as Debussy bionself remarked when it was resurrected years after he had fürgetten pr. clen kolf. The one performance and recording are entremely good.

-D. E. Inghelbrecht, Orchestre National de la Radiodifusion Françoise. ANGEL 35103 (with Fanne: Trats Noctionite). \$4.98 (nr \$3:98)

Pastone & Carnes Must 1998 Rateste (1894) (14 Editions)

Of all the versions submitted for this study, the Markevitals is the most interesting because it is the least traditional. Perhaps because he has the bullet in mind. Markevitch's superities are less lash than the others' and his rhythma are n bit doore altert, consequently he makes the pursic really sound like the afternoon of a faun and not like the afternoon of a retired leask president monoting in his club.

The name traditional approach, with richer understral sound and more some solart movement, is beautifully upheld by Ornanchy. Musch, Ansermet, Cantelli, and inghelbrecht, whose recordings I should rate in that order, although they are all very close in quality. A choice between them is to be midde mostly as the basis of price and the other offerings on the flise.

The other editions admitted do not matter much. Stokowski's Victor version preserves a famous performance, but the recording above its age. His recent Capital vendon is Jaborhow in tempo and mannered in style. The rest are weak in recording or interpretation to both.

-Igor Markevitch, Philhartmonia Orshasfrin Anom. 35151 (with Satter Paradey Woher-Berlins: Spartige de la roueg Ravel: Daphnin et Chlas, Suite No. 22), 84.08 (or 83.98).

-Engone Ormanidy, Philadelphia Orchestra Conuscius set 5112 (with Trois Nacturnes, Ravel, Dephnis et Chlas, Suite No. 2), \$3.99.

-Charles Munch, Baston Symphony Orchestra, RCA Varron Lat 1084 (with Ravel: Baldray Rapisodie configurate; La Value Dise is entitled "The Virtunes Orchestra"), \$3.98

-Ernest Ansermet, Ordburire de la Suisse Romittille, LONDON 11, 1552 (with Dinace morries at profesee: Ravel: Introduction and Allegroy Alborada del gracioso), \$3,98,

-Guide Cantolli, Philharmonia Orchesira. Ascen. 35525 (with Nunges; Féles; Ravel: Daphois et Chloë, Sulto No. 2: Pacane pour one infanto ildfineto) 1094508. (or \$3.08). -Inglichtreht, Orchestre National de Ja Rudischtfructus Française, Associ, 35103 (with Trots Noctiones, Marche coszater), \$4.98 (or \$3.98).

Leopold Stokowski, Symptomy Orchostra RCA Vicron LN H54, (with Chair de lunes Trois Noctarans): \$3.96 -Stokowski, Symphony Orchestra Carrrat, e 8398 (with Clain de lune, Hach Toccata and Fugue, in D minor, Strauss: Blue Donabe Walter Sibelina; Finlandtes Stoen of Transela. This disc is entitled "Loopadel Stokowskie Lande marks of a Distinguished Career."}. 84.96

-Paul Paray, Detroit Symphony Cochestra, Mancuray are 50101 (with Holma, La Mer), \$3.98.

--Willis Page, New Orchestral Society of Boston, Coox 10683 (acith Ninagen; Fétes; Danser Burber: Adaglo for, Strings; Honegger: Pacific 2311), \$4,98. -Jaan Martinon, Orchestre des Converts Lannureus, Elec Le 3658 (with Rousel: Pestin de l'amignée: Dukas: L'Appendi sarcier; Honegger: Pastonals gl'été; Fauré: Pausing), \$3,98.

-\*Joseph Berendt, Philliamonta Orchestra, ALLICTRO 3079 (with piano works by Debussy), \$1.98.

-"Karl List, Berlin Symphony Orchestra, Royals 1913 (with Bavel: Bolow-81.98.

- "Bernarchino Molinori, Orchestra di tha. Accademia di Santa Cecilia, Tixuro 2038 (wills Trole Nocturner: Chabrier, Polish Festival: Liezt; Muphiato Waltz), 46.07.

Tuom Nocrumnus (1899) (8 Complete Editions) 3 Partial Editions)

Montenzi's interpretation of this respic might well serve as a teatheok compleof what one means by the phrase "Gallie locidity." Without sacrificing any of Debuay's impressionistic atmosphere, he gives us bit orchestral teathers as clear and transplarent as Beethovers's furthermore, he resists the temptotion to linger, sontimentalize, or goalt. Ormanely provides a richer somethy, superbity recorded. The Doralt is very desceptio and individual in its profile. These three are the bast.

Anseringti and Inglielbrecht have digg hours well recorded but seem a lat on the pediantic side. Stokowski takes excesive labortics with tango and instrumental halance. Fournet's recording to rather mediacro. The indefeaseful, antediluvian practice of anditing bioener (the third Nacturine), with its wordless aborts, is followed by Contelli, Page and Ferrers.

-Morre Mouleux, Boston Symphony Orchestra, RCA Vieron and 1000 gwith La Mer), 83,98

-Ormandy, Philadelphia Orchestra, Co-Lynnia, an. 5112 (with Fause: Ravel: Duphyte at Chlod, Suite No. 2), \$1.96.

-Antal Dorati, Minnerpolit Symphony Orchestra, Mraccaw 50005 (with Berhour Roman Comman Overtupe; Havels Pronne, Alborata dei grachao), \$3.98, -Some, with Stravinsky: Fire Bird, Siette, Migacues 50025, \$3.95,

-Ansermet, Orchestre file la Suisse Romande. Losmov LL, 388 ( with Ravels Radmatte equagoole), \$3.08, -Inghelbrecht, Orchestre National de la Radiochiffusion Françoise, ANOR. 35103 (with Found: Marche Jeanuite): \$4.98 (or \$3.98).

-Stokowski, Symphony Orchestra, BCA, VULTON LM 1154 (setth Faunc: Club de June), 83.98.

-Jean Fournet, Orchestre de la Société des Concerts du Conservatoire du Paris Eric Le 3048 (with Itavels Roppodé expagnade: Menuret mutique), \$3.98.

-Nungen and Feles only. Cantelli, Philhamonia Orchestra. Astra. 35524 (with Panue: Royel. Dephnic et Chlor, Stilte No. 21, 84.98 (or \$3.96).

-Nunges and Felos only, Page, New Orchestral Spriety of Boston, Cook 10683, 84,88

-\*Nuagez and Fétel only Willy Forrero, Joshan Radio Orchestra, Tessro 2038 (with Faune, Chabrier: Pollab Fre-Hoal; Licet: Mephino Waltz ), \$5.07.

#### LA MER (1003) (41 Biliffons)

Much the same observations apply here as to the Macturner. Monteus provides the most lucid and transport interprefation of them all. The orchestration is relatively heavy to La Mer, which is Debusy's closest approach to a symphony in the traditional sense of the word, but Monteux onless every bound tell with the moust artistic economy, and the recentling backs him up. Toncaulaj, whose interpretation of Lo Merwas a specialité de la maison, takes a much bigger symphonic line; and his recording, despite its age, retains his subclety and strengts. A third interpretation of great authority and power, Beautifully recorded, is that of Ansemuet.

The Geleciumum is a graneous recording of a soundly respectable performance. Colorible has also done extremely, well by Rodzinski (at a hangata price too, on its new Harmory label) and Mitropoulos: as usual, the latter comdegraphic interpretation runs to exceptionally pungent estimates of tempo and dynamics. Irighelbreelst's solidly symphonic approach contrasts instructively with the much more deficite, abused plaents: expenses of tempo and dynamics. Irighelbreelst's solidly symphonic approach contrasts instructively with the much more deficite, abused plaents: expension of Parage since both continuous can (and probably do) claim the special French tradition. Erich Leinsdoct and Herbert you Karijain cannot claim the French tradition, but here again the contrast is marked. Leinsdorf's, to my car, is much the more perceptive performances.

-Masteux, Boston Symplicus Oruliestra, RCA Vierron Lis 1938 (with Trole Noctopies), \$3,98.

-Artisto Toccanial, NBC Symphony Orchestra, RGA Victori Lai 1833 (with Ibirla), 33,08;

-American Onlineare de la Salase Romande, Loxbor Lu 388 (1991) Rovely Marher Geare Sulle), \$3.08.

-Vielimir Golschmann, St. Leuis Symphony Orchestra. Cocurants sul. 3155 (with Rayeli La Valia; Values unbles biuntimentales). 63.88.

-Dimitri Mirapoulos, New York Philharmoote, Conusana an 4134 (with Ibérta), 83.98.

-Antor Rodzinski, Cloveland Orchester, Hanssory of 7058 (with Enercour Rus mattion Rhapsady No. J; Linits Mephinis Waltz), \$1.98.

-Inglicilierceit, Orchestre du Thélere des Clamps-Elysier, Lostour prz. 93017 (whi Ibévia), 83.06.

-Faray, Detmit Symphony Orchestra. Muncture and S0101 (with Farance Iberto), 63.00.

-Erich Leinslerf, Les Angeles Philhermenic Ordanizz, Carriol, r 8365 (with Ravels Depletic et Chief, Seite No. 8), \$4,65.

-Herbert van Karajan, Philharmonia Orchestry, Anten. 35051 (with Ravel: Repuedit supergrade). 04.00 (ar 03.05).

-"List Berlin Symphony Orthestra, Rotata 1401 (with Hoyda: Symphony No. 104). \$1.00.

#### Isacore (1912) (Camplete, 3 Edittons)

The three orchestral Images sprang from Dobusey's interest in Julk music The first, Gigners, is English in importations and the last Rendes do ministeres. French, in between comes the farment Iberes. The full color of Iberts is search more eleviters and more picture-oper than that of the other two compositions to the ortics, with the result that the Spanish contexplece to one of Dehumy's most popular creations while its English and French companying any ghoust intaily manmon to the proves prairies. This is undertenate, for Gigues and Randes de printemps ato first-rate works, the latter ago of Debutes/a most releasy Manufact and "modern" angeling appier.

Of the three potenties recordings, the Argente deals must be wild they control exclutionation, and Argunta's pustformance of Cigners and Rondes de printemps is the strongert, in skythesis time. But the Montevy remains the ophthat in every respect. This is, in fact, one of Montous's most recoverhable records. Despite its age, it still sounds entransformatily from it to one of Victor's articles of "Voult Treasurer," and it ano-Array the truth of its below. I protes this due with a certain real-arrangement has rman 1 myself wrate its inclust anion, at the same time, I do not wish to do industries to a great combistor and an within the reconding.

-Michigan, San Francisco Symplexety Occhestra, RCA Vertue svr 1636 83.88. - Eduard van Britsen, Ansterikan Cancertanterev Orchevin, Ersc sc 3147.

-Atanilio Argenta, Orchestra de la Suisse Remonde Longon La 1735. \$3.58.

Interes (Interes only) (S Editions)

Parery breezes brickly along this Spanish higherary, Inghalberche Ishore, Oreaswhy ine by for the best recording and protities a very this performance, Tessenal's interpretation is supplicity askeslated, but the recording is abl. Schitter takes overyour clus's dust.

-Ormandy, Paladotphia Orchestre, Ca-Lisberta Mr. 6434 (with La Mer). \$3.88. -Same, with Albertary Havis, Cauthons, C. 831, \$3.68.

-Townshind, NBC Symphony Orchestra. RCA Vierton Lie 1833 (with Le Mer).

-Peray, Detsois Symphotoy Onchestra.

JANUART 1958

Muneyer 50101 (with Fanner, La Mer).

-Ingle Brecht, Orchentra do Théise des Change-Synder, Lawane un. 03017 (with La Mer), 03.00.

-Johanney Schuller, Presting State Orchestry, Ukassa 7130 (with Allededay Rhosts), \$3.55.

#### WORKS FOR SOLO INSTRUMENTS AND ORCHESTRA

FANTABLE POLD PLAND OF ORCHWEITER (1880) (2 Ediment)

A bland, award, minipartiant concerts in three movements which was arither published new performed during the componer's illustions and englist well have been loft unalitateled. Of the two recorded variants, the Levichard is decidonly the better both in performance and recording.

-Heltone Scheftigt, retra Erich Kloss, Frankenland State Symplemy Orchester Lyngraum LL 38 (with Reporter pour orchestre acres acceptance; Clair de Lane), \$4.05,

--Fahirpus Jacquinet, plangs Anatole Flatendard, Westmägner Sympose Orchestra M-C-M # 3080 (www.Papers Audunte), \$3,86;

Dates Sarner, Dates Provate (1804) (4 Editors)

There two dances for chromatic harp and string crechestra quict, pdDr, chronically evocative things, and they trail to get a hile dail to performance. Whe attenight to commension for this by using a very free, rabate style of tatpprediction, but that does not colve the prediction. Grandiney is the heat mostrian to record the week, but the attend of his after to feedda. Harphone his well recorded her unintgrayting, and the some spaceses applies to Sheriton, is other



words, many of the existing recently in really presi-

-Maseed CroundBary, harps Sylven Lovin, Victor String Orchesters RCA Conservices 238 (with Rowels Internationthen suit allegress Jillerg Sales by Countpage, Handel, Rock, Hell, Lovellett, and Francinger, Dim is cuttient "The Art of Marcel Coundings,"), 61.66

-Edward Vin, here, Bradivist Records Steing Quarter, Synamy and 1007 (with Revolt Interestantian and Allegray Sales Sales: Ferministy Ford: Inpromy-to), 54.56.

-Ann Mason Shekens, horp: Felst Slathin, Commit Arts Orthowith, Carrrus, \* 2014 (with Rovels Introduction and Allagra, Schwenkerg, Verklaute Nacht, Dies is estilited. "Reconstite Chamher d/wate."), 94,00.

-Plate Bergheast, harp: Von Betman, Chamber Monte Suciety of Annetectum. Loragen 14. 1553 (with Found; Ravel Introduction and Allegres; Alloweds dol genetics), \$3.00.

PAPUME POLY OFFICER AVEC SARA-PERME (1903) (2 Edilars)

Batton has produced same marvelan blue-teckings, but since second fearful and wanderful then Mrs. Elles Hall, a wealthy middle-aged lady who was playing solar on the sussphere: in the protect solves of Back Bay seesed 1900 and ermittlefemed Debusy to write this work, it is not one of his materplenes, hat it has its community Debussy called It a "Monthish" rhopsuchy, and that doarrightion will do in view of the contic, molesments character of the music, in which the sampleme cuts the tone but plays a very discrict role. Of the two recorded performances, the De Vrire is much the stronger and store perceptive. -Julite de Vries, szarphone, Klass, Preskenland State Byuphony Orchestre. Lunerance LL 36 (with Clair de hours Partitule pour plane at archaetre), 64.84. -Marrel Mult, sampleter, Morard Remetled, Parts Hollamernic Orchestra. Carrent & 8233, with therty Concertino de Comero), 10-in. \$2.55.

PREMIERE RAPHERS FOR QUCHERTYS

The clarinet chapsedy is Dahmay's front work for a sale textrement with eacherten. He had wrough in a judge in the ted) to void the providence the market have Ports Conservatory; he liked the studrute, was interested to the challeners of the compound, and planned to write a series of competitions expressing problesus of virtuanty in his own transported and evolutivy upto Characteristically, he dropped the period abov completing the first place in the burlest although this is called the Promitive reponder, there was never a deathing. Kell's performance to very fine, but it with pieses. One larges that he ar appear other top claristat will she give as a successing offit an broken

-Heytnald Koll, clarinet; Charles Resea, plana. Data 2670 (with Hindoenth: Semata for Clarinet and Plana, Straviesky: These Physics for Clarinet Solo), \$3.98.

-Girm, with Webers Canad Day In Clarinet and Planet Schmanning Fouindustriche Durch 9744. 19.58.

#### PLANO PIECES ORCHESTRATED BY UTHERS

Perre Serre, arr. Bissor (1888) (3 Edithes)

All three vertices no well recented. The Fournet is expectelly withy in hitroprotection. Return relationstro upon the reasonities, Vertalen-response apprets of the maxim, and with great relationsteries. Slightle make several a solution order, recalling how often the Patter rates is played to how often the Patter rates is played to how often the Patter rates in played to -Fournet, Orchestro des Converts Lamontour, Erne Le 3165 (with Ranssels Bacchus et Arlow), \$3.96.

-Fritz Reiner, NBC Symphony Ory Chestra, RCA Vierron Las 1724 (with Ravel: La Tomheau de Couparing Mendelssohn: A Mulsunamer Night's Dram, Suite), \$3.98.

-Pella Slatkin, Concert Arts Occhestra. Carrrot. p 8328 (with Children's Carner), 84.98.

DANSE, arr. Ravel (1990) (3 Edition). Bavel's orchestration makes this little piece, originally published under the Satie-like title Tarantelle Styrienne, sound like an early detch for Pétes, the second of the Trais Nocturnes. The performance

#### FIRST RELEASE: BRAHMS' FIRST SYMPHONY

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#### SPEED THE PARTING GUEST

On et Emery Cook's heads hi fi concoctions thus backfired delightfally. With at least 60 separage (and distinct) percussion instruments, is was designed to drive lightenars from the room. Instead, it turned out so spooth that they stay to see it whipped creant will obsetteom the speakers. 10415 \$12.95

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The gorat Boston Recording Ferfival Opengrute In popular telecfion from Carmen, Paryon beset, 19645 \$12,90

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#### IUMP-UP CLANINAL

March Gras in Trinidad, including parading steelbands inever such a sound on stereo?), aumentic Calypso (the motorious Maute, Looke Honder, sung hy the composer) and larruging dance music so high spirited is makes even Yantees "jump up 10725 \$12,95

Dan't miss near wanth's released

is vigorous, the reporting effectively williant.

-Page, New Orchestral Society of Boiton, Cook 10683 (with Naoges, Félez, Foune: Barley, Adagto for Strings; Honegger Pacific 2312, \$4.08.

Cantones Consen, nr. Capter (1908) (1 additions)

The modest dimensions and dight sonorities of this ohildren's suffer do not lead themselves convincingly to orchestral pratment. Claytens provides the best performance, but Slatkin has the best recording. If you really want a record of the Children's Counce, get one of the original plane version.

-André Chaytons, Orchestre National



de la Radiculificano Française. ANGEL 35172 (with La Bolte d fonjanz), 84.88 (ur 83.98).

-Slutkin, Concert Arts Orchestrav Car prod. p 8328 (with Polito raite), \$4.08, -Stakowski, Symphony Orchestra, IICA Victoria Lin 9023 (with Tchalkovsky), Nutcrocker Suite), \$3.08.

5

-Fournet, Orchestre des Concerts Lamonrenz, Ellic de 3289 (with Bizet; Pelite autigs Scouge Inshemigeners), 33.98.

#### Six Ericitarites Astrones, art. Account (1014) (1 Edition)

The Petite suite, Danse, and Children's. Corner and alight works, but the Siz interaphes antiques constitute a big work, and in transcribing them Anscrimt has given us a Delmesyan orchestral. masterpiece to set heade La Mer or the Noctorner. They were detailed around 1897 as fragmentary accompaniments-for harp, celesta, and two llutes-to a reading of certain poeths from the Chansons de Bhhis of Plerre Louge. In 1914 Debussy rewrite these aletelies as a salie for two pinnes and stated his totention of orchestrating them, but the orchestral version was never produced, Ansermet has carfied out Debusse's place with brilliant success. The music is in the sensious "antique" vein which was ane of Debugy's most striking investions; Ansermat has soured it precisely as Dobussy hunself would have atranged it. her performs it to perfortion, and it has heen well recorded. If the present discography data nothing more thus scall-attention to this magnificent, little knows disc-its publication will be largely Institites!

-Ausermet, Orelientre de la Stiller Romoltée Lormor LL 902 (with Janz), \$3.98.

#### BALLETS

#### Junit (1012) (D'Echilton)

This halled about a courie game and anarmas gotage-up in connection therewith had the middortune to be staged by Diaghtlev part two weeks before the genetilere of Straviticky's Secret as a reack, it was forgotten in the uproat, and it has not been paid a great shall of aistention since that thing. The music carries to an extreme the strawistic, mosaighte tochnique in the handling of rhythm and application in the handling of rhythm and application is list years, and it therefore relations a suminator of ecceptional capacity to keep it from failing apart. This it has in Automat, whose superly interpretation has light housing the precorded.

-Ansernet, Optimize de la Staisse Bamande, Losmost 12, 002 (with Six épigruphes antiques), \$3.98.

La Borrer A Josephot (1913) (3 Editions) Ambré Halló, a designer of toys and mathor of children's books, induced Defuncty to write this completely anchanting corre for a toy-box hellet. Hallo's octably enchanting design for the stage set adoms the jacket of the Claytens version; unfortunately, hewever, Chrytens' recording is markedly inferior to

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# FOLKWAYS RECORDS

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Perfers's. The Previous is immutifially donne in every portitevalue; it is, in fast, one of thitten anexpressed grows that takes up in the compiling of every discography and hulp antichetty to reversed the compiler for his information for the compiler for his information to Arabé Capled, it is the top maniferpiece of Dobasoyan bounge and oblassey, at least is anythe the man class as the other year. -fourd Parties, BLAS Symphics Orthertes, Browsmy's 198-338, 51.05.

-Carytens, Orchester Natural de la Radiadizionitas Processing, Anna, 35172 (orth Children's Carage), 54.06 (or \$3.96).

-Platin Argenia, Sourlaiti Ordeestra di Napali, Centematra cura 1065 (with Salat-Salva: Corneral des animates), 83.99.

#### DRAMATIC WORKS

L'ENVANT Panevage (1984) (1 Edulea) The libertto of Edward Commit's calme Aprique was andgood to the Prix do Rome essecutives of 1004 in order to see just how convertionally operate the sould be in their suitings of R. Debusy needed the price, selected the model must blittly to mercurit, printered ine of Masurent's times were, seat carried the day without argument. The French official every server servered produce may not rise to the expresstre height which Manyant himself ditained in the last not of Wordher, but It contains everything to be found in Alasses or That, and in about res-lifth they leagth. The one eccorded ventors is quite pied, thanks especially to loghelbrocht and the tenere Legay, when I want to hear as Pulling. The text is not provide it.

-Maleterine Gerge, monane, Beert Legier, tranzi Marcand Colinea, have, Ingraditivelit, Orciventa and Charms of the Thelites die Charmer-Klywett, Leverse un 90000 (with Le Demainelle char, Reil des estimate qui s'aut plus des maimers h. 32.98.

PELLAS BY MELMANNES (1902) (3 Edi-

Due compares ship for able and some for express, and the conselucion is alveryy the agence the best streng of able

is the COD join are hearing at the supmores. Differences among the there care ready available reportings of Different's opens are marked, had it is different to

tand three size a basis for discrete partstrate. Tales, for example, the question of the

Milliambe Dinte, who dogs the ode for London is a lythe separate when value events with a concentry add quality and with an concentry mobile range of manage. Milliams, who has the part to the East version, who has the part to the East version, which has the part of the East version, which has the part of the East version of the which the the part of the data of the Angel In Angele, the databased of the Angel



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version, down the orde with an andfacted perfly of style that his sensewhere between the other two. So for as the principal wave are constrained. Anged has the college James is the minddlest and most presided anothing Perflets of the dowe, and Samany is transfoldent on Galandi, in fact, Collevel is the constal figure of the Angel perferiments.

Anorrows, who creatingts for London, andgrings the menterline, cargomits, fatoful, and pathotic aspects of the smalls. Fournet (Fight) have greater stress on the desanatic values. The trenget are more increased than Annevert's and his polette of assaure is damper in its emotraste. Chaytenic interpretation (Angel) has have infirities) profile them the others, This combines fails in behind the angres ments often than his colingues, but his version is still very strong in Ep lysis genetic.

Cloytons has the heat of the three recordings. Angel's second has great depth, resistore, and heater; but the other two are extremely goad.

Americant takes eight takes, Fourant and Chapters etc, but all three present the resting forth. Americant's sense any dustries, and if there is any truth in the alea that diars wear terminingly toward the center, they should but hanger than Prosent's and Chaptern'.

Landon and Angel provide the Borths, In French and English Rate door not. --Vistoria do his Angeles (s), Millimonde, Prangulto Ogdes (s), Vanish Jammins (b), Politics, General Simony (b), Golandi, Pierre Francesty (bs), Arkel, Jean Vinstile (hs), Milderto and Berges Charlies, Orthographics and Charges Similification Prangates and Charges Raystandification Prangates and Charges Raystandification Prangates and Charges Raymond St. Paul. Argan, 3561, 814.94.

-Sanasaro Danco (o), Milliande, Place Word (o), Yadahi, Heleon Benvitz (o), Generativos Plerny Mollos (b), Pelléssi Heina Behénes (bs), Galand, André Verstéves (bs), Arkali Dorrick Ohra (bs), Médevin and Bergge. Annevent, Oteinai tre de la Scieve Romande, and chatta. Loimby 144, 11, 615.02.

-Jandar Michages (+), Merinamics Annih Same (+), Valahik Riss Carr (aws), Genereliset, Carafile Maurane (1), Fel-Hong Micharl Rans (b), Colasad, Xarter Depress (bs), Arter Martel Varaeres (is), Merineta and Berger, Paurart, Oralarette clas Concerts Lawsantress and Elizabeth Brasser Chain, Eric at 6003. 811.84.

La MARTINE DE SART MEANER (1811) (4 Délénse)

Colorisle d'Assurgifié's wordy, cryster mystery play is dead heyend all pantbility of resurrection, but the large quantity of result which Debasey words for it arcens to be proving to its apprel. This was obve only the short rate from the Martyre approximat an amount programm as on discs, but today out a size gle reversi of the easte to allowed; tostand, we have four versions of the samphile sense to choose from.

The Boyl of these, for general parparent, is the Atacettart Associate gives at the mande, with a few minor cuts, and in his jasket restes. he provides a detailed dictch of the action and the full tout of the song portions, in Prench and English. This is important, horsesse exp most moderational the words to understand what Dohneyy is doing with theme and the worse and likewise, both of theme and the worse and likewise, both of theme and the worse and likewise, both of theme bug and of print, may be avenued only in herge blocation. That Asserted performs the work segurithy almost performs the work segurithy almost performs the work segurithy almost gets without anythic, size be is one of the most asithwrither Delessoration of the state day, and his recording is first class.

The Manuch also is thereby recented, but the performings is not as visit as Anternet's. The conductor reads some of the spakes lines of the play-rather dely-in provide a thread of surrative hat-room the sported pertinue. The full test complayed apprars in an inserted pangable.

Includeredate version is more eliferred from the others, Ingholbrecht helieves they the score must be mounted in the most enoring paged of the text." This means that he adds words and young of d'Amazonte, amo of it rective over the music. As a second, Inghedbeecht takes four using har his reconciling, while the other catalogners need only ron. Ilis version is unmensely effective if one understands the surveise, but a larse if one diasto't. Not a wind of the text appears on the jucket, but the whole play can be found in the French magazine, L'Illustrations Thildreds No. 181, May 87, 1911, and this of this publication are not unobtainable in this events, (The test does not seen to be published in any other farm.)

The Alexandro version is surprisingly posel. The Okhdonson City Syntphony in not one of the crunity/s must colohented orchestras, but it makes excellent arounds under the hudership of this excellent masterian, new combinities of the San Antinks Syntphony.

Constant Dange, segurater Hanay Weingh, merrir Line de Constantilin, merrir, Ibaim Chorale de la Teur-de-Polis, Anavenet, Orchestro de la Seine Romande Lentrer a 6103. 64.05

-Phyllic Cartis, suprans, Flarence Kaplell, surans, Catherine Alcos, norster, New England Consurvatory Chinton Manch, Boston Symphony Orchestra. RCA Varietta Lar 2000, \$3,08.

-Charles Callert, operano, Janho Colhard, mercury Chattelians Carrunal, second Andred Falaren, anotziati Charrenso of the Rodindifference and Television Franpaine, Inghollarethi, Orchestro du Théáteo des Chomps-Edynfes, Longoux are, 190640-L 97.55.

-Process Yornel, mproves, Mirton Struert, impound Anna Earlin, moren, Vistur Alexandra, Oklahoma City Symphony Orchestra and Charms Allecon-Ears SDL \$2.85,

#### CHORAL WORK

La DASSIMULLE, ELON (1085) (3 Edi-

Writeers on Dahamy seems to be maxware of the fact that Dante Galarid Rescript's poon The Marced Domaad was written as a copy to Par's Stagen. For hep-leastly mourne his "lest Leasen."

HIGH FIBELITY MACARDON

Report's become it schoolly that fout Lenore waiting "at the gold bar of Heaven" for the author of The Black Cat.

All stores versions are well song and reasonably well recorded, but the Vittor is the levelost to performance and has the forst septime solute, All three are rong to Preach. Victor and Columbia provide that text to English Lander provide that text at all. The Preach text, rather strangely, is hard to come by, end it double have been given with all time of three records.

-Viennis de las Angeles, Ingronn, Capul Ennis, Ingran, Excluding Church Soedry; Munch, Braton Symphony Ordigner, BCA Versus Lie 1007 (with Breins: Nate of 601). \$3.00.

- Auto Sayne, expresse, Ramfield Madell, merring Wassen's Charas of the Univeruity of Presspirantic Otmandy, Fideslepting Orthoners, Concerns 16, 6070 (with Revel Concerns for Plane, for the Laft Hand), 53.08.

Laft Hamil, KAR. Madeletes Gerge, optimical Jacoutine July access Instatteretal, Charus and Octopetes of the Thilder des Charup-Elystes, Loverner ort. \$2000 (with L'Antent presigner. Nail des ordjants gut s'ant plass au trijistits). \$1.05.

#### SONCE

bliest of the bangs by Drivery new oralishing by Assertion, they are contained in fame collections, park made by a single split. The reactor will want to been the controls of costs collection hefore we proceed to comparing versions. They are as follows:

MALLER TETTE IN FRENCH ANT SAMO Alfred Cartet, plano. This collection, dubberd from a famous 70-rpm set made along twenty years ago, is one of BCA Victor's "Vanit Trensmo" artes. It com-tains sharp wangs by Debuny firm any other edition. Min Teyle offers four ming cycles, such crangetulug there canget, and single excerpts from two other epcles. The complete cycles are the Fitter milmire, first terries and second series, the Trate changeme ele Ballete, seel the Promonents de deux amonte. The single manipi and the Ballesle des fraiteres de Parts, frage the Trate Indiantes de Tranosis Villen, and Dr Criver, Iron Preser Arigure BCA Viewes LET 1011 (with mungs by Dupner, Fauri, Halos, and Pola-Adhe ). No trot, \$3.88.

## Sound on Drawny, Lanne or Barana

Summore Dispers, separates, Guide Agenet, planes. The Endowsy adde constains the dis Arbettes coldition, the Trois chammer de Effets, and the there arage of the Promeantr de drass amount Londows LL LL25. Trai in Gaglish andy, 63.65.

#### Prices in Sciences

Man Merriman, elent, Gradd Morra, phan, Trois chataeras de Bibeles Féler adamire, Brit anies and three other compt Mondalue, Balade des fermante de Paris, and the Jet d'eres ferm the Chan padates de Charles Bandeleine, Astata, 35217 (stille compt by Bachelet, Fauris,

JANDARY 1958

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Channen, Dopose, and Rovel.) Test In French and English. \$456 (or \$1.96).

Some Circus, FACER, Deputier

Hagness Craword, teams, Discussions Mancard, plans, Arlettice endilities and two degle mage-L'Echelancerroyed des hates. Irons the Trair collection, and Mandelling. Many of the Pauro migs in this set exploy the same texts or the samp by Discory, Vauceson von 414. Text in Preach and English, 64.58.

In the comments that follow, where in each recorded using or cycle will be taken up in chroassingizal articr, the alway collections will be referent to mirely by the same of the stages.

Mandalma (1883) (2 Faithers)

Meeringsafe interpretation of this early, Spaced controling song is faster in trappo and lighter in spirit than Cornell's, but one cannot pathy espress a preference for either vergen.

Artattes caldier (1883) (3 Editions, ene

Of the two artists who have done all of of three areas. Dance is the unpresolute and plastic singer, Consumit the finite obspue. As however, disjets and discust, I profer the sugger, especially store the cycle, definited to Mary Condes, growt mate initiality for a weaman's vehice than a mark's Thirrache, who has recursied the first three of the sit maps, dans three to a while, communities style, with manyless plane stamming the stammedia. The details regarding this minute are a follows:

# High Fidelity RECORD REVIEW INDEX

A complete induce to all above all considerables, jogg, and spakes and consider convert advant oppared to Hanne Penetserv Magasires to 1954.

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	-	-	Indian
	-		

No C.O.D.; or sharps andres please

-Generator Tennahet, expressing Francis Read-out, plant, Haven Security vol. 154 (with songi by Perdene and Record), 95.95.

Le let d'esu (leven Chug Padanes de Charles Soudelaire, 1888)

Our of Debussey's hougest spage, using with wounderful associativity and onlys by Merrieson. She angle to do the entire syste, experially some jegits? Travel's returning of 8 to no larger to his hold.

L'Echristenstant des baies (fran Trais collection, 1991)

The scherms of this Verbine syste is defity using by Currentl.

Febre galentes, first cories (1802) (2 Editors)

Teyto's marries) of the right course is a bit of a chiston, with every note prochicly in place and every indigeneous of shading propoleusly choosevel. Merrimon's minerpretation in the solution, however, and she makes same mapin with Verificia's veryely and empanyment.

Press Apriques (1803) (2 Editors, 1 (accupter)

Tryte prinches one using (Dr Criter) from this dramatic and important cycle, but Orbuster does all four very brantsfully, and her fair organing has been very well presched. Unflytemately the agend of the plane is thing.

-Veres Outcome, imprante, Roller's Verheart, pieces Meune Lapasov 7066 (with want by Fourt). No 2016, 85.00.

Treis characters de Billite (1407) (3 Edi-

At the risk of services employmentide, I should him to vote for the Chamsons do Belefic as Daluessy's furst some cycle and for fits finale, Le some and hay, for thirty yours, and it unver fails to produce the Peters The classic Tayte-Cortat version to atill the heat finally. Morthean and Danes only the best Morthean and Danes only the Merriman with the dealy timbre and Danes with her fine lyckems. Only the Merriman vertifie provides Flore Lanys' prom, without an understanding of which this more forginity is manufacture.

Pares galantes, manual series (1904) (1 Edition )

The choice is simple because there is no choice. Taylo alread provides this beautiful syrie, using with characteristic musiculty, integrity, and supply trans.

Trais ballades de François Villes (1910) (3 Edition, 3 introspiete )

Here is one case whereis a such vester is not only preferable but newstary. Toyto and Merrisson have done the Ballicity day foremer de Paris or mitable, respectively, to a ferror of Landess and a ferror de Las Angrire, but the parish really calls for a man's value. Movement days the complete orate lessetticity and is the acchestral vestion, what had a convitted by to the other and drame of the what, Uniortemplety the text is unit provided, but Villan is alizatuable anywhere,

-Camilia Moorana, Bartheney Fourast, Orchevero des Camevets Calanta, Ere, LC 2325 (with sings by Britten and Revel), 82.08.

Le Promenetr de deux eminite (1910) (S Echrique)

There is littly in choose hopewars Taylor and Dance on far as this cycle is conorened; both do it experisly.

1

Nati des onfants qui s'ant plus de matanus (1818) (1 Billion)

A crarting propreseds can accordington without its tout, which is not powerland, -Mashdrone Gauge, convenue, legisltorshe Orchestre de Thelate des Champs-Ebyers, Leamost ort, 93009 (with L'Endent predigent; La Donesalite dia ), 63





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HIGH FIDELETY MAGAEINE

Charling



#### On a Change of Title

IT was first twenty lumns ago that Hice FIDELITY launched a new department called "The Tape Deck" and entrusted it to that voracious veteran R. D. Durrell And It was just eighteen innes ago, in July 1056, that the first reviews of stereo tapes appeared in these pages. "Flybhergasting" was the word Mr. Darrell used to describe his first experiences with stores sound in his own home Since then thomands of other listeners have had the same enraptured reaction. Nothing has so surprised the equipment and recording industries as the accelerating temps of steres taps miles in the last year and a half. When Mr. Darroll reviewed his first stores tapes, they were very much a novelty. Only one of the sugar recend estimptimies, RCA Victor, was then isoning thereo topet, and it was chong so on a purely experimental basis. Today almost every important record maker is in the stereo busi-nezz. And as the stereo repertuire grows, so does the market for it. It is estimated that the number of stereo playback sets is now increasing at the rate of 5,000 to 10,000 units a menth.

All this is by way of pre-hade to announcing that "The

Note: All steres tapes reviewed are 7.5 ins and-unless specifically noted otherwhen-are on 7-in. reels. The timing indications are for the complete length of the massical program, including passes between movements or selections, and are examined all to the meanest minute. If a date in parentheses is appended to the series, il refers to the Bour of Huse FIRELETY in which the corresponding disc review appeared.

. . BACH: Preliades and Fugues: in A minner, S. SAR in E. menner, S. SSR Charade (Schubder) Nu. 1, S. 645 ("Wachest west"); Sancte No. 4, in E miner, 5. 530

Carl Weinrich, arma Supristants over 14125. 20 tats. \$11.05.

This second stores release in the Sonotope-Westmanter Bach organ-works opetes includes two works (IL \$33) and 8, \$63) sound carlier on LPE (the Prohade and Fugue collections away 18427 and 15400 respectively ), plus two others ant yet available to day editions. As for as the performance themselves are conevenil, they are not calculated to change any Bachten Bilmard preformed evaluetions of Weinstehs these who countiler him methodical will buil him as solverly meteomoult as ever here; these who,

Mrs myself, relish his practices will delight onew in his freechast from phrasing standartions and in his shifty to matehain the surplied floor and debring momentum of Bach's long-contained, intercately-graved controportal overheatens. In may case it is the deputy smile (publics of the recording which are most erroring. The mouth differentiation of fedbateningily would hand collectings, the estaday of proble passages (Schervel without any "mapling" of the upper volume), and the dramatic pillon up of invertity on secondly make sidd tappy an pertiling and satisfying home-literance enpretrate, (stars 14427 and 18000, Burth Ducensually, Oct. 1937.}

R. D. DAMONIA

#### · · BEETISOVEN, Converts for Phones and Orchestra, No. 2, In 8 flat, Op. 19

Robert Coldegal, plants Produlert Op-Converse Hall on 21. 20 min. 611.05.

As every literate phanophility and have barned by any, Barthours's "Bread" pieces comprets actually was written a complet of yours hadness the "Yout"; you the surfich in membering is legically justified, for the B flat work certainly is many "serious" and ambilious then the more impollately sugratuation, youthfully evaluated expectio in C. For this

Tape Deck" is being retard in lover of the makele "Stores." The change reflects our constitution that the future of recorded tape to inextricably linked with stores sound. As a medium for the reproduction of moste in the home, recorded tape's chief salars d'irre to its ability to corrywith superb fidelity-the two channels of sound necessary for sterro listening. The change of title, however, also signalizes the editors' suspenses that tape is not the sole medium for steven anund. Before too long, perhaps later this year, the first degle-granese steres discs will be an the market. How they will compare in quality of sonnel to the best stores tapes, no one knows. This department will, naturally, begin to carry reviews of storen dires as sum as itery havene available

Along with the change of this comes an enlargement of coverage. A single reviewer can no longer cope comfortably with the full weight of the stores avalanche. Accordingly, beginning with this issue, Mr. Darrell's reviews will be expresented by those of other Ilical Pressury reviewers who have "game steres." In addition, the rspanded department will contain a monthly "Sterro Forum" and an occasional report on new steven equipment.

RALAND CELATT

reason along the present Coldsgad-Bassberges performence to blacky to be bee starting on first hearing than the come artists' naturally purp and weighty sealing of No. 1 (reviewed here May 1957, new trustebored as LX 22). Again Coldiand plays with odver rei alaunya chaptent strength, and Randerger ap-companies with beaut, well-controlled energy. There is have begins here, to be same, had then done son't much, if my. to the decidedly introquetive ances needl. And, as before, the strong open mitting and anyther and acception, while the pieces inquited well left of option, do full three justice bath to the subart's extremely para, clean minut tons and the duck experities of the Provident orabolta LDD.

· · BRAIILISI Concerto for Visita and Okhester, & D, Op. 77

Kreen Mitchel, wielder, Phillipsermonder Symplung Octowers of London, Arter Budutpld, event.

Samerare own \$008, 27 min, \$17 WG,

Although Mose Marini plays and Dr. Redefiniti conducts every lift as well as in their Tchalastelay concerts (haded at warudy last Junp ) and although the in-

Continued on next page

combing to an how transported and dullterture-outbrudit, the present work ( with the possible exception of its Allegro givcome finale) second to we match low well adapted to the gypey ferrency of Miss Marini's style. Thesing competitions' with the Holiciz-Beiner devis laying ( no trough here July 1995) are (Bambaring), for dthrough Hetlets never stoller and at at all herrigh, his performance over-all runs over three and a hall minutes faster. It is of course quite legitimate to play the work complifierably more slamby, as Odusymmed and Readyreget do to the Campert Hall detro tage (reversed Jone 1937, new transformed an 20), but them the grover pace should be matched by grouter houselith and Commandy salestery, as it is throw. However, and the charge of "no-Bahmatan" has have brokel at the present version, three reactes withing het praise for the otherwise estidic performance itself, and the highest pusies of all har its flatform recording. (Also available on LP as Westminster gwm (88000.) R.D.D.

#### CRIEG: Concerto for Pieno and Orchestro, in A Missor, Op. 10

Artes Rehimstein, plous, BCA Viewer Symphismy Orchestra, Alfred Waltenstein, comf.

MCA, Victoria, aca 67. 29 mila 612.60

If the pringrest of Mit. Bubblisteria and eight ar more fact of Shearway analong a sende approximer in your loving runnin creater approximer in your loving runnin creating of the sender of the sender of the method of the sender of the sender of the print or longs as Me and the webester only sliphily live on The performance is fine distinguished one fluctuation has recorded byfore and played in creater. I thick with increasing emotificates, for yours, Welleminin and the Victor orobester, probably NBC by updates of

Romany Changes Manuel

 HAYDN: Quartet for Strings No. 11, & F. Op. 2, No. 5-Gas Scienbert: Quartet for Strings No. 10, on R flat, Op. 125, No. 1.

#### · · INERT Divertingment

Bustin Pops Orchestra, Atther Findler, eval.

INCA VICTOR ACS St. 14 min. 66.03.

#### · · IRENT, London

Benten Systellumy Orchestra, Charles Mean's, cond. RCA Varyon acu 87, 15 mm. 60.00.

Control human to ant entertained to what we may wont to call "services" excessio, but exterted hencer is acceptizatively zero, and a semidentition of the two types very semical tested. The prevent enestable first theoretic tested delightered Associtation discophilics encoded the word equal tops others. Firstlar hencedat the overfl equard Direntifizymint to The. And now, two decader later, his szzle-clazzle roudong, sharpened and brought to incomission by electrolying steros annips, is many delightfully classifing them over. This is real circus stuff, crospicto with the tesal erpetroletes of cloves, peakling but the seperir blevel of steros becelity and reverbareant isompliany Hall accounties apveals a hitlerito pensagerited califiery and glowing warmath in both there's advert couring and thy Bostroians' genulterity visiones performances. (Orientally relating on LP in say 2004, regether with Le Bostipue features and The Jurgedthe Florid, May 1957.)

The same engineering and suchestral masteries also are lavided on there's more environmently writers triptych of Manhaterranenar-junt time paintings, Rocales And if have the propagater tendlates the improvinsitie derives of Delousy and others, the orchesteasor workly po less balletchinequie and even more dellcould manual a total palette, I wish that Munch's spannedly reading were as released and expansive in its systetic passuges as it is frontines in the land anes. Vet this is sufare to a recorded perfitingance which approaches as avorly as this one the dynamic god timber ranges of concert-hall experience. (Originally released on LP in Las 2111, compled with Delessy's Lo Mer.) RDD,

#### · · LISET: Maphins Walts

Virmes State Quesa (Itclassiza, Hermorni Scherchen, cond.

SUPERAPE ON D 7007, 13 mm. 10.03.

Apart from noting that Scheerbon's per-Evenues is considerably breader, if on less vital, than Reiner's (RCA Virtur ACS 25, reviewed here three weaths ago ), I brothate to make a deepdee choice hespurses them, Both conductors spen the manuffer rather than disboligal elements to the monthly and while the secondard mund qualities are destingtively different, the alightly greater handhoodly and pi-spanny of Scherchen's hardly can be claimed to be separate to the same discryly decened Remot scales. 11 produced I might give the narrowest of edges to Schruthern much bergene 1 and ble verdan a doule same stampherin in the yearang day passages and a shade more eaching in the optional race, driptio the fast that over all his reading rives about two minutes impre-R.D.D.

#### · · OFFENBACH, "Acades-Vous" (Modes)

Vacuum State Opera Orchester, Jasef Develor, read. Levennerous 720 BN, 20 min. 011.05.

 OFTENBACH: Les Centre d'Hafmannes Jatraduction, Mianet, and Barcanalles Orphée ans enfers. Orerture

Baston Page Orchestra, Arthur Fieller,

BCA Varyon Act 60. 18 min. 66.85.

Even harvare instantivily propuliteril against approved pathones are blody to he distant on two counts by Decder's Acadys-Vom with Offenbach line, by the monthlarm with which it strings together as less than thirty-two chains courful tellets from no bus they filters stage works (including many need in Galte Partitionar, but dos many others, such as Les Géorgiermen, M. et Ming, Deale, Find des angeles, etc., ante la be outerality to send Anarchana); ereand, by the fact that almost everything to it (about officenting the servitable Reventer) boarts the linest Offestinghten corres and to player with abritus tra Redl to not particularly distinguished by wheel manual gottilities, but it ensemble canobicatily higgs that it putietly it, thanks to maple revelopation and cal-cordingly holling, high-level, elementcally home-by-read damin reversible.

4

Prediv's strapping with more care and ante housing in his desire, more arthden program (originally toward in the impre LP orderities, Offenbach in America, LM 1950), and the erometing Secondary the strang and restricterant, if at a brue estronce mailabrium hypel. The brue violations and carted more light are stranged and carted more light are shown and carted more light are thele over the hore head is preformed with comparable head is preformed with comparable head is preformed with comparable headily and increase (Dec. 1958.)

#### . . RAVEL: Baldro

Virman State Opera Orchestra, Hermann Scherehen, comit. Scherehen, comit.

I have long assumed that the galvante effect of Rovel's tess de faire brevenes programmer diluted with repeated mustings, yet the tripted have of the pressest tagid intractilately measurement my effections instead of the reported origin delectron presentations of the basic sections of the iters is a lighter, brannetra, stourd know-know specify have where, an evaluating the insultations by leving Kabalas, I. Instein results forms, the sumphysicial of sourchaspers, Telonging to the original orchestation, rother than the senality prestituted same and theirs is what floori wally wanted At my ride, it gives extraordinary tailviduality to intervelyen's preferencesthe arrows barrowity which estimates his sculling throughput. 1.0 D.

 SCHUBERT: Ounreter for Sorlings No. 10, in E flot, Op. 125, No. 1
Haydan Ownered for Sindage No. 11, in P, Op. 3, No. 8

Pine Arts Quartiel Commentario 23-Su 32 min. #11.85.

The Hards, so carly but by no means portfile prov, and the britshort, a curturn and enundy highly depris, have prevale outviews halo for dark other.

On ride tape due crans the obsectional partors of the question, although all four

Continued on page 93

HIGH FIDELETY MAGAZINE

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# Revere TAPE RECORDERS

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LANINT? MELCHI grant in

instruments are on each channel. The effect is therefore (mp of sparsonments rather then stores mickery, and the over-all presence is admitable.

Cortainly the Schubert registers forcefully its meaning minoritic-schurms with a gradesquarky accounted spinost is and accordance, the slow maintained indiformity delinanted deputs of feeding, and the finale overflows with one of these high speed thereas typical of the compours. Throughout what one heave is the ground of a first-rate generict, which is what is should be. B.C.M.

## · · STRAUSS, MCRARD, Der Bir-

Chicago Symphony Orchestra, Fritz Relner, coul.

NCA Vieros ara 43. 30 min. \$12.05.

Remot's sending of this some apparently has here which proting, here in a Co-Synephony, more recently to the present recording (originally included to on LP Streents minorthemy, LM 6407 ), but for une both the manie and this sederportation would peoply by since gontality and lever memorines. Even in second, tosorterant mores, which does roved better than ever before a multitude of intimehen of under herestares were arrest tented rather than lightened, Penhably other beteners will find much were have to entry than I do, but if so they also are Marly to be more seriously dissurbed by the inexplicable outprime of two pieces-the Minnet of Lolly and the Courseste-called for in the source of the complete mile. (Nov. 1988.) R.D.D.

#### TCHAIKOVSKY: Preservent de Rimleil, Op. 32

Bastan Symphony Orchestra, Charles Munch, creat RCA Vacrost are \$1, 23 min. \$13.95.

Monch's characteristic broadinant and vehances etche me to for better proelements while as finder vitatmentered Dentron tree ports than flary were in the Roman and Juliet fordade ( recorded here in the steven version March 1057) with which it was completed in the Las 2043 LP, And show the Bastenham perlottoney is mother monterplace of tently convolled, Instilly colored stream only, captured in strong and bound serves reconling, the propert toping must rank near if not at the very lop of this unsubstitut's gatebolive reportanys ( April 1057. R.D.D.

 VERDI: Alder Dance of the Printrenor, Art J: Grand March and Ballet Munic, Art J:

Virunia State Opera Orchestra, Armanilo-Alberti, and Superare swo 7011, 13 min. 60.05.

Theor are well-pared, throughly blomotio prefermance, and regard to Tantening - according to any-has performing enjoyable. The stand helps a lot. The collectone is fire Act II Ballabele is anpensible wears and obsent, and the frompets, as they do in the opera bosts, perform their famps moduly well apart from the rest of the exclusion. Unfortunately, the transpots word here do not sound the the brilliant, metallite "Aida transpots" presented by Vorti.

The tappo is confiningly labeled It is billied movely as "Aids. Trimophal March and Ballie Monds. Actually it equeue with the Act II March, gues an is the succeeding hallet copperation, and thro-putting its opera is revoced, as to apach-duality up with the "Darco of the Principan" from the Trapile Serve in Act L. Ronave Gelavy

#### WACNERs Tounhouser Ocertase; Venadorg Maple

Innana Symphony Orchestra, Charles Murch, anal. ICA Verven and SJ. 21 min, 68.05.

Dulinitely a Callic Mad of Wagner-

fast, brightly brassy, clos. There is sume historical justice in this, for the Venneberg Marke was withten expressive for Parts. Mercover, the French teach is by no means inclusive, and history who espect the Warthurg and discover instruct the Opics may find it at first a bit discussering.

The Overtaire dates from 1845, the Versidiere Music from 1861. No transition in the whole liberarure of music to more exciting than the few bars that link this jump of obters yrues. From the corneret, Weber imposed, esilier ploidding soverous of 1865 care is anddredy transported to the valuations corybantwo of 1884, from the fielding composer to die grootes who had just fielded *Tristen*. In some the effort is tremotedates. No single channel coverding sorts out the structure of the Bargformi with the clarity and impact of the max. B.G.

#### REEL MUSIC NOTES

Covering,: Ecodero in Hi-FL, plos states, and the print manual econo convertigbudy than the LF (w 754) of the same preintenance, Even Belaners who find the Internation and Enders who find the Internation and Enders who find the Internation and Enders who find the Internation and Colcon 1955 despedyingly remove steps docorrer sprightly combinations and even some and Internation and even some and International and even some and International and the solution of the prevent strength deducting (\*\* m 10, 24 min, \$12.05).

Crassiants: Phil Silvers' conservation with Sachnaring Boass access to be that of hernervalued openant andy, but this program of Netern Baddle compositions is played by a hig boast hed by Hy Shritter. Pasobly some of the playes have been excel to the Silvers TV program, for which they are entered to thermate materials from a cyclicking Army begin cells. Bather to harmentitiagly been (except for the half-dille Two Arms and Camp As You Are) for straight closer music and hardly has enough for true into, they meretthefree system comprisingly discreting hetering, theody largely in Biddle's matching they represent the source of the metalogy close, Prank Constitut's and Warren Babar's ingredows sturing, and the antalogy close, encour meanthing ( $\bullet$  pro 9, fill oute, 013.00, also available on LP as co 1011). But Buddy Cale's Phose, Podels and Pidelity is blacky to here even threter-argue desisters by fits every of hebayed and viscous flavible..., a ligh of proveberators for, and undersmith varied registrations ( $\bullet \bullet$  pro 2, 30 min., 013.05).

0

MINITURE: Despite the title of Manie for HAPA Bags, Pete Bogoda's high-hand interprograms is pint disfigured by recordhig tricky: the making is not too charge the prevention group is properly dimme. Although vividity criter and close; and the well-halascent merror bloyd contenys the big connecties with anotheratic realizes. Sense of the preferences, hereaver, are diverting and greeting property dimens. Sense of the preferences, hereaver, are diverting and greeting back best to be big connecting to the first big destendably account here. I Meet here, the beamey, catchy ploying in Filewary Meeting Yes and Later Towas, and the vibrant gather bits the about (• • true 8-1, 28 min. \$12.0%, and contailed an LP in Emberry the Ministry Jan. 1957).

HCA Varmen. These are an argetoss in Mexten Gendel's World's Heat-Lound Waltzee Tchatkowsky's Meeping Brendy, Labie's Gold and Silver, and Stream's Pholorounar are conventional enough "cut" page perittenanne, if a hit browlerharaciant than the best of these binds and the conductor's own averagement of Zielser's Vienna Rossier has its typical Coulding scoring felicities and equally systeal overfunctions. Some of the boostmore, through, is producibly as speech the sequenceholicity of the eather everytheres recording as it is of the playing model ( . . acc 32, 39 mins, 62,95) also available on LP in Lat 2072.), The day Arnes Benthers' Second Secondary or a surprise, at land to use who ordinarily dealetre male quarters. For these prop cheristers not only have placent voices times sentialants, particularly in the litle time and I've Beginning to her the Light, Munitives, they don't had the spathight, best let Bell Phergan's high-spirited intic orthoutes has housed alsone for considerable inetches. ( . . cos 73, 94 min., \$10.05, sion ortofable on LP surgers 1987.)

A.D.D.

......

#### STEREO FORUM

#### Stree Equalization

Sena

Revnembering the headaches we all had with proper disc equalization in the days before the RIAA characteristic was adopted as a standard,

Continued on page 04

HAGH FIDELITY MAGAZINE

## ... the new dimension in sound



## Elve everything else you would want in a complete tape system ...

Designed for the highest of reproduction standards ... Scandinovia Styled from fine grain <u>matrogeny</u>. Sterso J-speed Tape Phonograph and Tape Recorder -Tandberg Model 3-Stereo - for at home intening pleasure ... or conveniently portable in hursely-styled, luggage type carrying case for traveling misyment.

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stereo-trio a complete home music system — perfectly matched

The Tandberg stores this including model 3 Shrives recorder/reproducer and two perfectly matched 266 speaker systems forniture styled by Scandinavian craftsmen in the same fine grain mahagany as the model 3 Stores cabinat. Comparable to the finest — at almost half the price — \$469.95.

3 Speed Versatility Records half track ... plays back half track, hull-track and stereophonis tapes. Prequency response of 71/2 Lp.s. is within = 2 DB from 30 to 17,000 cycles (+1 1 DB from 50 to 10,000 cycles).



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teser and the the Tandhorg Blance Tres ar unte for full television tat







# The new imported NORELCO "CONTINENTAL"

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## TAPE RECORDER

port ble

> Per the then and address of pror accred Norder destar, write to

I'm wandaring whether I have to anticipate a desiliar problem in stereophonen reproduction.

C. A. Wendell Brookhy, N. Y.

Emphatically (and thankjully) not Standardised recording and reproducing characteristics for the IS-Inch tape 2000 were adopted 20000 press and The same playback characteristic has recently been adopted as the seofficial devilored for 7.5-each topes, so American commercially recorded sames, both sharls channel and stores, should be played back with NARTH (ortifically called Amper) aqualization. The equalization derute in newby all domestic tape playhock-only equilitation and practically all current American tage recorders are designed to meet this standard. Proper equalization now is a problem only for summers of comple abler rypes of tape recordett or for owners of some Brillich or European topic organisments and/or recorded topol, in many such coord, housever, it is guilto processable to have the older circuits recomped-by the original manufactures of a openpations technician-to bring the orrestitution pacilities betw comformity with the NARTE wanderd

#### Wow (of a Special Type)

Simi

Out of fourteen stereo tapes tested to far, two developed terrific "www" which, I understand, is done to tape stretch. What has been done to cope with this problem?

> Jones W. Clarks Detroit, Mich.

Although it stands plantible, your diagnesis of your esses trouble is dmost certaining strong. There is estermoly lettle stretch is accitete base topes, which, as for as we can learn, are used exclusively in commercial releases of both deglo-chemnel and stereo topes. ("Mylor"-bourd topes are somewhat more susceptible to diretch although they have much greater brocking strength and one less offected by adverse himsidity and temprosture conditions.) Accounting that your drive motor is operating properly lachich is probably the case, done the materily of your stores topse can be reproduced without would use think the trouble undoubtedly to coused by either comerchas "attchy" tope gaides and hypde or topes, or by a combinotion of both. The respects for the former in these age clouning of guides. heads, and comparisons for the latter, the additional was of a ulicong-type lubelcost on the guides and heads above (definitely not on the capaton or drive abalt 1

The clouding should be done regu-

HIGH FINELITY MAGAZORE.

larly, after any every five hours or an of tope-deck use, with a option such dipyed in inspropyl alcohol, or one of the standard commercial tapehead closing preparations. At least ense types of silicous hubricant is also multiple from topo-could ment dealers, and it has been found helpful by many warrs, not only in preventing the way that results from under drag or "dickment of some topes, but also in eliminating the unpleas-ent "squeed" according tops produce when they pass over the guides and heads

#### Cremtall

Siles

What is "crossitalk," and is it a serious problem in stereo?

#### Drunk P. Barnhart Kingston, N.Y.

Originally this term referred to interference in telephone lungs, resulting from pickup of one line of concernathen in another. In deprophenic reproduction, when one ployback head channel picks up a small part of the signal on the adjaining-channel tape track, this unscented signal day to called crosstall. It is rarely any problem for stores listeners, since the signals on adjoining tracks are of the Elene performatice, and are ecentually mitted in the air and lateners' cars engroup. (The more crossicily there is, however, the loss experision there will be hetween channels and consoquantly the loss marked a stores effect -hence the care head designore and monufacturers take to minimise croatall as far as possible.)

Connectable to more of a lintenes's problem when he uses a Lapp deck. equipped with stacked (in-time) heads to slay back 2-track abgle-chanael tapes. For in this case the crosstall, or slipsel picked up by one built of the dual head from the edicining channel, is not only a deferent performance for different section of the anytas musical work), but is recorded in the reserve direction. It may be quite noticeable and annoying during quiet passages which do not cover up the nonconted "leakane" from a loud passage on the other teach. To coold such crossially timple, some tope decks, porticularly these intended to he word frequently for single-channel tope reproduction, are equipped with on additional, displayed or "staggered" half-track playback hood as well as the stacked pote. This permits not only the reproduction of "staggered". head algree reandings but day the createdh-free reproduction of singlechinnel laper.

Continued on next page

JANUARY 1958



1220

the sound

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An of the above persolent are pourplear t full year for only bolds. This is been this value of the fabedone time party drop above.			
STERED TAPE ENCHANCE BIS Main RL, Paterson, N. J. Satissed to disch an M.O. for settle for I year's benfuently, ford sprint land, pater			
ing, und details for exclusing and events of taken. Soud further fully the success take, and and and take restain. Benil Stephille and prices on evenes record.			
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#### 'ON THE COUNTER

Shoe we are starting in this issue it new section devoted to sterve, it sterved logical to us that that's where announcemonts of new iteres of sterve equipment belonged. Hence the st-first-glance-confusing fact that you find two OTC columns. Anyway, here we are and here we expect to stary.

EMC is offering a sterrophonic Term Praven for \$189.93 (no record facilities). Hundles stacked stereo and duals of fulltruck monaural 75-ips tapes. The player has one apather chaonel, and TV, radio, or what-have-you may be used as the other. Frequency response is 40 to 12,000 eps.  $\pm 2$  db, and 30 to 15,000 eps.  $\pm 5$  db; signal to noise, at least 50 db in dther channel; wow and futter, test than 0.25%, noise, at leust 50 db below 35-distanted signal. Topo-deck mechanism, minut electronics, is \$80.05.

Phonotapes has been the first to take the plange as far as sterop TAPE Prices (not counting sampless) are concerned. The new Stereo-Camen rocks ran about ton minutes doch and list at \$4.95.

The KT-500, a new Toxen Krt from. Lafayette, features spendard or steren reception of AM and/or PM. Separate cathode-followor oupput and volume controls are provided. PM section includes Armstrong circuitry, grounded-grid triade low-noise front and with missle miser, automatic fraquency control with defeat switch, and double-timed dual limiters with Coster-Secley discriminator, sen-ativity is 2 av for 30 db quieting with full limiting of I av. AM inclusion 10-kg whistle filter, built-in ferrite loop antorius, and three itages of outcontitle volume control; sensitivity is 5 m. All parts phis instructions manyoul soll for 87-6.50.

Also available from Lafayette is the Tancordes Madel V stered Tasu Bioconnen. The mail records at 7% ips and fakes up to 7-in, rack, there are threa low-impedance dilekted heads for fulltrack curse, stacked-inline record, and stacked-inline playback. A seconomic ded preside for a seconding presamp is inchalled in the instruction booklet. The recorder comes in a blond or mishigany cubinet and sells for §405.

The Knight KN-700 steres Parasserrise from Allied Badio provides control facilities for playback of any steres or monaural nonrees (except steres discs). In addition to independent gain controls for each channel, there is a master velume control which simultaneously regilates both ghannols disamals gasy also be reversed. Two steres and front maximal inputs, catholo-follower quipost, and Twomatilizy AC mations are provided as well. Prequency response is all the from 20 to 20,000 eps. Only sourcher is 62 SX 4061 price, \$79.50.

Completely new interneering design is said to have raised FM senditivity of the 3668 330 Tuston to 26v for 20 dh ad quicting. The FM and AM sections of this inner are completely separate, so it may be used for Moreo reception. Provision is studie for PM multiples reception.



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Tenneris- first to schorer under over neurowell sensitivity for 28 db FM quinting: finceness stalles nange to over 100 miles. Other opportant fastures include file nero "Fasthur Gay" summy eve. A/ C nertich fig-wheel tanks, toos tended and calledo follower conged, Masse S-2000 FM-AW Tenner \$120.50 neri Bader S-3000 FM activ laner (50 50 nert.

"presspect" sine Butten, Thes all pleasure to bally report lover and more fastures than any competitor Frant panel cardrets are simple, ersy-to-handle, yet completemetada 6-da presance das batten; Pecard microphase and Cippo-playbout expessioners central landness compensation seldel, scales, and make there. phone bund control, tape maniher model, adjustion of 6 inputs; abipat babe talance contra and that period on regr. Model 5-1300 23-36 wolfs-1108.50 mm.









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# **Tested** in the Home

Equipment reports appearing in this section are prepared by members of Huch Freezer's stell, on the batic of actual use in conduction with a hone music system, and the resulting contastions of equipment are expressed as the opinions of the revencer only. Reports are usually restricted to items of general interest, and no attempt is made to report on thems that are obejoinly not designed for high-fidelity applications. Each report is used to the manufacturer before publication; he is free to correct the specifications patagraph, to add a comment of the and of the report, or to request that it be deterred (pending change in his product), so not be published. He may not, because, change the report Fallure of a new product to appear in TITH may mean either that it has not been submitted for review, or that B and and not sense found to be unsettigatory. These reports may not be quited to reproduced, in part or the vehicle, for any purpose photoever, without written permission from the publication.

### Vitavox DU-120 Coaxial Speaker

SPECIFICATIONS (furnished by monufactorer): a 73-in. direct-indicator ipsolaer with case horeeter. Prequency ranges 30 in 15,000 cpt, nominal, Pawer rating: 15 wats (Bolick izandard): impodances 16 ahms. Cone resonance: 40/45 cpt. Magnet weight: 3% lb. on weaks: 25 cc. on twister: both Ticonal G metal. Flux density: 34,000 Gauss Total effective flux: waofer, 1.6  $\times$  10° Maxwells: iweater, 1.5  $\times$  10° Maxwells. Crossover fragmency: 3,000 cpt. Recommended exclosure: infinite ballio, 6 cubic ft. minimum volume. Olimensions: 12% in. diameter by 7 deep. Pelso: 369:50. DisTribut-TORt Ercato Corp., 551 Fith Ave. New York 12, N.Y.

Vituvox is a British company best known for its separation public-address equipment. The DU-120 is, to my knowledge, the only computent that they build expressly for home music reproduction, and it gives the distinct inspression that Vitavox knows its sorie way around.

The speaker has a heavy magnet, a low cone resonance, and efficiency that is lower than most speakers but is by no means the lowest. The woofer cone has a mechanical crossover, which rolls off its response above 2,000 cycles. Thus, no electrical wonfer crossover actwork is needed so there is no series resistance introduced by a choke in the speaker circuit. Mounted It an 8-cubic-foot totally enclosed baffle, the DU-120% audible response on sine-wave topes was found to be very smooth from 1,000 down in about 500 eyeligs. Then there was a slight, broad dip from there to 350 oyeles, back to normal again, and essentially flat from there to 50, where there was a slight, broad rise. Then the response started to taper off, was about as strong at 40 as at 1,000, was still shaking windows at 35, and was distinctly felt at 30. Even at 25 cyclos I could feel the pressure come itinwhen I switched the signal source. on and off. No trace of doubling could be heard anywhere in the bass cange.

Above 1,000 cycles, there was a wife gradual rise in adapt to 10,000 cycles. Between 1,000 and 10,000, two bumps of moderate size were detected. Above 10,000 cycles, response continued smoothly to around 13,000, and then started to taper off with increasing

JANUART 1958

rapidity. It was still going strong at 16,500, which is where my ears begin to full me.

On musical material the DU-120 exhibited a very high degree of definition and transparency. It could separate individual instruments well, and its bast definition and tange were excellent.

The DU-120's high-frequency dispersion was shelherly very good, and its over-all balance and homo-



The DU-120 could uses a cond licenter.

genetity of sound were remarkable. Balance was a bille on the bright side, but this was by no means an eaoggeratedly brilliant speaker.

Two minor peaks in the upper muge were autible m some types of program material, as a slight hardening of string and brass tone, and a bendency to emplicative the noises and distortion on had recordings.—J.G.H.

MANUPACTURER'S COMMERTS We gots upon that the DU-129

Continued on next spine

#### TESTED IN THE HOME

#### Continued from proceeding page

vabilities a high degree of definition and transportancy on maninf antiphility in the antidented . . . D was designed into the sportant. We do not consider the small particles of elibitative under to improve the spatially to important, thus must couplifiers have infiliblet power couplifiers to furnish that readed for the DU-128.

We manual agree with your theory solated to the combanit of feasing is bed re-archings. The Viterent or any other good-goodby contines should fulfillely reproduce wheel is feel into \$5. Lost reserve ings deaded he conservated for in the electronic drugby or, here will, should see by played of oil.

#### Wuisso Dekamix Changer and Solorette Manual Player

DISCRIPTION Numbed by nearladured Babamia B-180- a farspeed unintermin changes, Speeder 16%, 33%, 45, 70 open Turatables enningents out elements all robber ant. Brive motors According four-pair Industrian Capacity tan 13-in or runten 18-in. San, Internized Will intervie 18-in and 13-in dass with 7-in dass as long as the latter are placed on top of stack. Change machanisms spinith deep. Area: Referentight molded plants, cohored plug-is aptridge shalls evolution reportedly. Controles may homen, start betten, speed selector (14, 33, 6, 45, 78), Bimonolonet 15 in. long by 12% unds by 5% obare mater beard 2% in required bearet mater heard. Supplied with AC and phane cables and plugs, and mounting hardware Prices \$39.95. Selerette 2- a feur-speed merved player. Speedge 16%, 33%, 45, 76 rpm, Brive motors reapple induction. Arms light weight entrysement plants; adversel play is shells evellable separately. Controlin speed selector (14, 33, 45, 70); solicity sendows botton, small which extended by pickep are, Simeralanse 11 1/16 by long by 9 1/16 wide 2 1/16 bi required based mater bard Supplied with AC and piece athles and pick, and according hardware. Price \$39.95. DiSTRIGUTOR: Encars Corp., 531 Pith Are, Herr York 17, DL T.

These phono players are manufactured by a West German Firm and are imported to the United States through Ercone Corporation to New York. Both players are light to weight and feature simplified design and construction.

The Delamits (Dokamits to Deutschlanders) changer is a four-specil with a nominal 10-record capacity and full internation graphities for 10- and 12-inch records. It will also function properly with a few 7-inch records



The Delanie fear-good changes

on top of the stack of 10s and 12s, but it is not designed to intermit all three sizes.

The Delanuty drive motor works is confunction with a rotating turnet which carries the speed reduction drive wheels. As the turnet is retated (by turning the speed selector knob), the appropriate drive wheel norwar into position between the motor sheft and the large rubber-fired idlar wheel, which in turn contacts the inside rim of the turntable. The 0 speed control atting disengages the drive wheels from the motor shaft, thus restricting the contact pressures to the idler and adjacent speed reduction wheels.

The unit is seeplicity itself to operate. You aclect your records, stack them on the shelved spindle, and then key a dim-shaped weight on top of them, to hold them keyel and insure positive dropping of each disc. Pressing the start butten trips the changes and starts the trustable running. At the cod of the has side, the velocity trip mechanism is actuated, the Dekamis's pickup are returns to fits rest post, and the mechanism dusts off. It can be stopped in sud-play by lifting the arm off the record and moving it toward the center of the record, or by lifting the arm onto its post and pressing the error buttos. If there are no more records on the opindle, preusing the start builton during a side will trip the mechanism and sould it through its stop cycle.

The Solorette is a nonchanging manual player, with direct siller drive from a stepped drive shaft on a twopole motor. This one has a control cuble arrangement



Wong's Solovette & monoid player,

which is cleverly contrived to dismgage the idler nutromatically as noon as the unit is turned eff. Another costs device on the Solarette is what an ad man might call Bs "groove cue control." The groove cue satisfy botton is a control has located in front of the arm rest. When the has is depresed, it brings a metched track to contact with a dider malermenth the arm pivot. As the arm is moved in toward the edge of the record, it drops into notches at precisely the right spots to late the lead-in grooves of 12-, 10-, and 7-inch records.

Both our test units proved to have very good speed regulation, and some bread-hand runable content that was deemed low enough for all but critical listening applications. Bocomso of its unahielded two-pole motor, however, the Solarette should not be used with a humrusflive magnetic pickup.

The changer mechanism worked positively and dependably, and since its pickup arm is counterbalanced by means of rear-of-pivot weights, stylus force was not found to vary as much from the bottom to the top record as is usually the case when spring counterhalancing is used.

The instructions supplied with our sample Delamic were for an earlier model; these for the Solurette were written in Corrects,

As received for testing, the Dehamis and Solerette were mounted in nest, compact currying cases, which would came in very hundy were the units to be used with partable high-fidelity systems.-J.G.H.

MANUFACTURES COMMENT: Appropriate Staffick operating instruc-Continuent on page 102

HIGH FREATTY MAGAZINE



## Your very own music

There is something about the music you make yourself that is more intimately thrilling than the greatest performances of the virtuono giants. On a Corne Organ, this thrill is yours at the touch of a few notes. The simplest of music, expressed in the inherent total beauties of the Corns, is rich or Emplid...sumulating of relating.

The Corer Minuet here pictured is a completely self-

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magnificent in music

PRODUCT OF AN 83-YEAR TRADITION

contained high-fidelity musical instrument of professional quality, And if you are an adventurious hobbyist, it can be chemneled into your hi-fi system—monourally or stereophonically. The price of the Minuet is under \$1500.

See your Convi dealer and hear the Minust, or send the coupon below. Count Organ Carporation, Elithert, Indiana.

Cause Organ Corporation Dept. HP-1 Elithers, Todiane	CONN
Please send booklet "How to chots borns."	to the organ for your
Nont	
<b>Allera</b>	

#### TESTED IN THE HOME

#### Continued from sugge 100

tions are formished with all deliveres of both the Dolomic and Information

A 45-pm gandle is evaluable for the Delanate. Also evaluat from the report was another of the Delanate's facility for manual playing al report, and its extension playing acting which

Laboratory such an the Column have callened a summersment of below 0.25% ran speed extension at 23% spin, and have above the readile to be low reasons to permit the inclusion of the Bohamis to the mast rithcally doministing high fidality bundletters, The couplidy and pro-proved design of the medianism braves in long and dependents works.

Forurs preduction models of the Dalamin will be expressed with an activated adjustment for styles andown position, esturing accounts and down in the dist lepthic poers. These will she be a central spring to cases the constructivity system in previding the weather backing inter-

We do not assuder the Salarstee to be relative for use by the moder period, but II date have fermines ther are blighty functional and appearing ing to store inaderate tequirations.

#### Chapman SSE/FM Tuner

SPECIFICATIONS threaded by associations of a suffigurered Att builden, dear-mon, and Fit builden tenas, Yorking ranges Pit, 50 to 100 Att, 55 to 160 be to one band and 13 to 34 July in tens bands. Controlling suborbilly, 7 he and 10 bry wine band in fatter, tening ranged dataset form control, formit ayes, Dispose fatter, tening ranged by Pit deep by Pit high. Prior \$100.05. DISTERS-UTOR forms Carp. 581 Pitch Are., they York 17, 85 T.

For those who want good AM and FM broadcast reception plus the fun of world-wide Estening via shortwaves, the Chopman SSE FM deserves very thorough examination. It's likely to be the answer, particularly direc it provides all these facilities at relatively medest cost.

There are five scales on the dial: AM breackast, FM breachcast, and their three which cover the entire shartwave spectrum from 1.2 to 34 Me. Also on the dial face to a tuning eye, operative on all bands, and of good stephilivity.

The timer has three control knobs on it. The arbretivity and AC on-oil knob is at the left. The arbretivity can be set to 7 or 10 kp for AM and SW listening; it is wide open for FM. The third pratition of this knob to



The Chappens all-une AM and PM trans.

AC-off. The control leads solects the desired wave band, and the right-hand knob is tuning. This knob works very intentiably and can be span down the scale. Secditivity an AM and FM broadcast bunds is fine, but second to be particularly "het" on the shortwore bands. You can really pull in the works] Fidelity is the throughout.

Frequency stability is exceptional. One of our tests

was to operate the turner for mewoul hours, and finish up tomed in to WWV on L5 Mc. After standing overnight in a chilly count, the tunner was turned on agen, without touching the dials. As the sound came on, there was WWV, out a hair all, And an hum later, it was still go tupe.

On the back of the chouse are two notput connections. One is at how voltage, high juspedance; the ather is at higher voltage, but is a 600 ohen cothede-follower. For construction to standard American genomp-control units, the 600-ohen output should be used. The comput from the high impedance about the rated at 0.1 web. This is miller how for American presence, must of which are designed for operation from about 0.5 to 1 web output. The how impedance output is 2 webs.

There is a level control, affecting both outputs, on the lack of the chassis (no front panel valuese control). This is to be not enor and far all far proper suppor level in the property.

Also on the back of the chants are the antenna putit one for AM and two for PM antennas, which may be either 300-chen balanced or 72-78-chen unbalanced (work as a straight dipule).

Incidentalis PDi interstation name is mitchedurd by use of a ratio detector. The breacheast organemic on the abovewave bunds take up but little space; tune carefully, Alus, in my test set-up, the AC plug affected the hum level. There was some hum with it plugged in one way, but none when the plug was reversed.

-

.

-

Price considered, this is definitely a good boy for those who want the works VM, AM and SWI-C.F.

MANUTACTURES COMMENT: The design specifications for this tensor added for maximum fits and Alt partechanas, free of delt and reading others between certains on FD. These objectives have been exceptibilitied, in the predection of a same which are only given measure performance as FIS and standard Alt, by which due others the ever to "heate the world" as duet were radiu.

#### Thorens TD-124 Transcription Turntable

SPECUPICATIONES (Lorschlard by menufacturery) a fear-gand 13-bit to-mobile only service good compil, ballels cellificantied neohannen, and interest dort-map facilities, Speechs 75, 42, 33%, 16% spin. Varaber control ranges 20% of control speech Brites motors hybriday bounderings induction scenes, Strabouraped order totable, Branissiand by mean plan light, while is recovered active. Bimenoisment 15% is and by 12% deeps 2% bit, required bounds top of optor bound. Prices 39%,0% MANUFACTURED: Therems Co., New Hyde fack, Long instead, N. V.

This Swiss-mode curretable is a sargple of the kind of workmanship that has carned for Swiss which esserments their workl-wide reputation for precision and quality.

To begin with this is, to my tasks at least, one of the most visually pleasing pieces of high-fidelity configurent I have conventorvel-out conservations in these days, when it has been fooldimable to heave and a grass fully expand. Yet it is at the ansar time impressively husinesselve in approximate. The twentable musif consists of two acctions, on innex, heavyweight cash-iron turotable of about 115 tenders character, and an outer childrafianced abundance turnstable which fits smally ever the the intervals around its appear and are appeared at intervals around its appear and are appearing of redirive plastic, an which the apper turnstable rests. The plastic dars art as clutch path, insuring a sumsing coupling between the issue and caller turnstables. The thea of this clutch drive is to evalue the turn-

Continued on page 104



minersi

Indi



This speaker protected by U.S. Patent \$2,641,329; 2,690,231; 2,751,996; other patents pending.



Response: 25 cps to Inaudibility; Total magnet wt.: 61/2 lbs. Alnico 5; Power capacity: 50 watts, Integrated program; Impedance: 8-16 ohms; Depth: 12"; User net: \$156,00,



LISTEN... University sounds better

nutably the Fine

#### TESTED IN THE HOME

#### **Continued** from page 102

table to be started and stopped without shutting off the drive motor. This is accomplished by means of a semicircular lifting rim, located under the edge of the outer turntable. When actuated by a lever at the left of the turntable, this rim horsts the outer turntable a fraction of an inch upward, until it is clear of the drive clutches. This brings the outer turntable to a sudden stop, but leaves the flywheid table running; when the outer table is released again, it takes off about instantly and is up to full speed in less than half a revolution.

This instant start-stop feature will appeal to radio broadcasters (who normally must cus a disc by holding it by hand, with the turbtable opiming under (t), but its primary value to the home user will be simply in long-term reduction of wear on the drive system.

The induction drive motor is loosely suspended from three soft-mbber mounts. The motor's shaft terminates in a large organed drim, which drives a flat, subber



The TD-121 Influentation summable.

belt running around the adjacent idlac drive pulley. The idlar pulley has the familiar stepped shaft for speed selection, and this drives directly an unusually large soft-moher-tired idlar wheel that contacts the indide rim of the cast-iron furntable. The belt drive isolates the motor from the rest of the system, to reduce vibration transmission. The large drive pulleys and idlar are intended to intuinize deformation of the drive belt and idlar wheel rim, and the "reciprocative-type" eddycurrent brake is claimed to give better speed regulation and lower vibration than conventional types.

At the right-fined edge of the Thereas trimtable is what in the illustration looks like a detachable woodor shelf. This is precisely what it is; it holds the pickup non and its resting past, and is available in reveral different natural wood or plan-color finishes to match the cabinet or base on which the unit is installed. If the standard shelf should be too narrow to accommodate a long pickup arm, an alternative wide shelf is available, probably at a slight additional cost. Other convenience features include a built-in circular spirit level, and integral leveling screws located under the turntable base plate.

Ingenious design is, however, only part of this unit's attractiveness, its construction is so exemplary of preciision craftmusiship shall it is difficult to think of these tauntables being mass-produced. The parts fit together as if hard-hened; the drive motoffs publicly shows evidence of having been dellied out around the perimeter for precise balancing, the tauntable shaft (achiels rests on a single ball bearing in a deep machined brass well) is polished to a mirror finish, and even the pressed inetal levers and cams under the motor chassis look as if someone had taken a smoothing file to their edges.

The specification sheet on the TD-124 failed to mention wow and flutter specifications, but this was a simple oversight, because I was mable to detect any form of speed variation on any kind of program material, which is about all one can ask. Romble was also exceedingly low-not quite so low as the quietest (and costlicst) turntables I have tested, but well below the limit of audibility under ordinary conditions.

Our test unit exhibited a tendency to slow down by about 22 of its nominal speed when a pickup tracking at more than 5 grams was placed in the outer grooves of a 12-inch record. Speed had returned to normal by the time the pickup reached the inner grooves. This could have been the result of misadjustment of the driver idler, although it was observed that slowing the turntable by hand dul not cause drive slippage, but simply slowed down the motor.

The instant start-stop clutch lever was found to bevery effective, and fun to play with. It can, however, make a lightweight pickup hop out of the groove, and although this isn't likely to harm anything, the noise it makes can be startling.

I noticed one other thing about the unit submitted for texting; the retractable 45-rpm spiralle insert built into the turntable couter would pop up alter several repetitive starts and stops. A small notch filed into the edge of its retaining tongue slot-a task involving perhaps five minutes of thee-would remedy this very easily.

All, in all, a beautiful product and a top-grade performer. This is a unit that anyone should be prood to display and to use.-J.C.H.

MANUFACTURER'S COMMENT: We prefer and to state fall performance specifications for our equipment, because we faul that comparisons of published specifications content be meaningful until all monologiumers agree to catego identical test procedures and cating systems.

systeme. We have, however, compiled competitive test data bitween the ID-124 and an competitive incontription remaining feet of which we will fee less them \$100, and the remaining feet of which cost the sume as as up to \$20 more than the TD-124. Our tests, which eave conducted eader identical conditions for each which the how of the sume as a up to \$20 more than the TD-124. Our tests, which eave conducted eader identical conditions for each which the the plate subject competing territohims that 3 dis more remaine their the TD-124, and that the others rangest all the way up to 11 dis more remained. As for as spend regularity is uncorrect, we then that the ID-124', digavit competitor had 1.4 times as much speed vertexion at the TD-124. We feel that this tells the time time speed vertexion at the TD-124. We feel that this tells the time times are all on could any fulling of specifications.

The difficulty encountered with the eli-raw spindle was noted during focast life tasts as this twentible, and see connected in subsequent) production models.

#### **GE Transist-Tube Preamplifier**

SPECIFICATIONS (liumished by menufacturer): a self-goward thrasitage preamplifier for magnetic pickups or low-impedance microphones, acceptorating a transitalized figst stage. Input's totol al three, for microphone of any and of-staveral magnetic phone carriedge. Controls: function selector within (Phino, Miel, gain selector which (B), tota autput here) adjust. Output's ever, at high impedance, to anaplifier input devel adjust. Output's ever, at high impedance, to anaplifier input devel adjust. Output's 1 wells, noningl, (B), 1000 cpt, with 10 are signed into input d1. MA distortions 1.5% (B) 1 weet. Phone componention: RIAA. Transistor and tube; 20168, 12AD7. Restificareinness, 10 mg, 100 w Dimensions) 5 m, long by 34 which by 34 high Poles; \$21.95. MANUFACTURERs General Electric high Fidelity Section. From Bidg., Old Livespool Rd., Liverpool, N.Y.

Transistors' are grinning popularity to grany and o appleasions because of their freedom trans low leakage

Continued outpugg 108

HIGH FIDELITY MAGAZINE



# The 99-more features than ever before-only \$109.95.

Features like these make the 23 watt 99D complete amplifier a real Best Buy ...

NEW! Pront papel speaker selector switch. Choose between two speakers, or play both.

NEW! Front punel tape recorder monitor switch so you can check your tapes as you record them

· Pickup selector switch lets you choose between either record changer or turntable · Tupe playback channel lets you play prerecorded tages direct from tage hands without esternal pre-amp . Separate rumble and scratch falters make even old and worn records sound good . Separate bass, troble and loudness controls . All aluminum chassis and direct current on pre-amplifier tube heater assures inauchble hum levels.



Down beings file une H. R. South 22 west 20.D complete Amplifice

including your new hi fi guide.

now!



an artain the Bringsfitte Up aprano Unione Bolar donno H. H. David estimates in the their see become



Book and mp what of the 10 showing second in the of all onternal conteredition. The spontons bepost of all parts on this shatth pop shapps assure constructive spiruling temperatures and long his of dederate parts.

"..... (The He will drive an AR Jacober grober groves at open-durably load levels without describes or lager, ones with an ESL cartiligs minus inapplement, and that is one of the mapt maning faturant tests ens an speir is to anythin." -- Anila Langer Japan, 7th. 1887 (Vd &

No 41



Perfect Companient - IL IL Berth PM court (SSOR DELI & a perfect match for Mer Wil, Ap 6320 FS IS's a best-berr carf.

Additional Ves helpet I stor motion: Parent Justing 12 wanting grane das presentes for simplified sporting temperary requires Ant Sings to Mility harmonic determine has then \$45% has not also this bear tell ant pan ; descentions in incluquery our \$1590 a 10: a 13-161. 1200-01. Chains of handparter evolutionary encode 20.55 and 219.65. Prices Sightly higher way of Station,

Persition and Assessment Country Bapale Permitten, Boths.



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#### TESTED IN THE HOME

#### Continued from page 104

and microphenoics and their very law heat dissignation, but the relatively high cost of some types is still a deterrent to transistor utilization encept where they have a clear advantage over tubes. The characteristics, of transistors make them particularly such is presupplier input stages. GE has applied this reasoning to the development of the Transist-Tube, which uses a trantistor in the first stage only, and follows this with rear vacuum-tube stages.

The Transist-Tube is intended for use with either a law-impedance (250-ahm) referaphone or with pay popular piesas cartridge (including, naturally, the GE). It can be used to previde a around plants channel for



The AC-percentil Transfit-Tube promp

a comprehensive control unit, or it can function above in lieu of a control muit in a budget-priced system, or in old console sets that have been converted for magnetic pickup operation.

Unlike most transistorized devices, this one is not hattery provered, but requires instead a surree of 115volt 60-cycle current. This is an advantage for those who disking the idea of replacing batteries periodically.

The how impedance into the translatte stage is used to preduce the requisite RIAA high-frequency solid from most cortridges used with R, although certain invhopedance cortridges require the funtalization of a small consister inside the chassis. Basis equalization is controllable by the function switch, which gives a choice of that response (for subcrophone operation) or has boost for record reproduction.

The output from the preamplifier is at high imprelance, so in order to maintain good high-irreguency response, its output cable is made quite short. It should not be lengthened by the user.

As might be expected, the Transist-Tahr's microphonto putte was farmul to be totally negligible, and its thermal hits level was very inter, Figure level in any ample preasup was totally below the level of auditety when using a cartridge with as leve as 10 mm endpet. Other tests, in origination with a GE pickmi, indicated low with end of solution with a GE pickmi, indicated low with an IO me which varied from -13 to -14.5 db, depending upon the autput level curated setting ..., a reglight variation. With the entput control wide open and the function on the n take, I found the preasure range response to be due to almost 140,000 events

The IM dotartion at low levels was higher than is usual for a preamplifier. As is true of other transitiontard units we've tested, however, the Transit-Tuba's argued was much clearer than its high IM distortion specification would have indicated. It inclues to full, moderately emphatic basis, and a startlingly crisp and transparent middle and high-cauge sound. Its over-all sound might best be described as range-sharp and lockd, without the unphastant cutting edge that is after characteristic of such sumic qualities. A fine little preamp, ideally taked for ity purports,-1.G.H.

#### Stephens 80FR Speaker

SPECEPECATIONES (Revealed by memolastowerfs on black wide-mange speakes, Franzossey ranges of to 15,000 ups. Impedance: 16 alms. Power retiling 50 wette program, Dimensional Dis It. dimension by d's deep. Prices 531.55. MAANUFACTURETE: Stephenes Teo-Banis, Inc. 5330 Warner Dr., Calver Coy, Calid.

Better wear an apron when you first listen to this speaker! The masic-cool and crisp, even icy-will papright out in your lap. For a single-cour speaker, the projection is unusual, Since it is also terminally clean, the result is a speching transportage.

Response is quite smarth throughout its cange. Monorded to the small exclusive supplied by Stephens, the useful range is from abant 70 to 10,000 eps. There is still output at 60 eps, but it is below worm sufficiently for it to be noticeable on program south. The more is true at the ether end of the questrum, at and beyond 11,000 cycles.

The writer has seen this spruker decommitmeted in an infinite halls and has seen the tightness of the case operation. The manufacturer refers to "live-cane" construction; certainly the edge asspendian is exceptionally free. The result is fine transferst responde, with percas-



The SIVE full-range 3-inch speaker.

sion munding strictly tight. Vasiles are very love, yet not why: brass scally sings. We'sl like to try four to slg of these specifiers for the low end, with two stereo'd for the middlet and highs.

Recommended enclosure type is how affers the small enclosure to which the unit was tested was of this type.-C.F.

MANUTACTURET'S CORINERFL The engineering shall of Supplement tralients has continued divertagement of the andrewes, and the production beining has been allonged from a harmbacked reflex to a bastanlanded, diffuent-part strice. In this environment, the origins of the

Constituted on page 100

HIGH FIGHLITY MAGAZINE

# This is the way to Playback and Record STEREO with the Bell TAPE TRANSPORT



A new high fidelity component for you ... with professional features for outstanding performance. Choose from 4 basic models ... to record and playback on tape ... in monaural and stereo ... with inline and offset heads. The Bell Tape Transport does everything!

Sell Sound Systems, Inc. Columbus, Ohio

Systems, Inc. A division of Columbus, Ohio THOMPSON PRODUCTS, INC. N CANADA THOMPSON PRODUCTS LTD., TORONIO

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TURN SHE

## Design Your Tape-Playing System the Way You Want It... with the Bell Tape Transport.

Bell has id A new Tape Transport that provides you with the unlimited flexibility to plan your tape playing system—just the way you want it.

As a new component for your high fidelity system, this Bell Tape Transport can be custom designed to playback Storeophonic Inline and Offert tapes.

The Bell Tape Transport is easy to add to your present high fidelity system. It goes anywhere mounts and plays in any position. Can be easily connected direct from tape heads to your existing



AD BELES 100 PULLEYS. POLEVING MO TROCALE S

### New Add-On Pre-Amplifiers

Perfectly matched for best frequency response with your Bell Tape Transports

Two all-new Brill Pro-Amplifiers are new available for you to Add-On to your Bell Tajar Transport. Your adaction of the Boll Record Playingh Pro-Amplifier or the Playback-Only Pro-Amplifier monoids of course, on the head orrongement of your Bell Tajar Transport.

Shawa here: Bell NP-190 Record-Playback Pre-Amplifier, Alto arailable: Bell P-100 Pre-Amplifier for Playback anly.



Make Your Stores System Complete With the Bell 2 channel Amplifier

Now yes can have a complete Storesphonic Smind Ryotein with this one Bell S-channel amplifier, 12 write

antroit from each channel, Ranzingerd for tage on Pre Amplifices are required for playback with your Bell Tage Transport. amplifiers with tape head equalization. Add-On Pre-Amplifiers

For the most critical listening—and professional recording quality—you'll want to include Bell's special Add-On Electronic Accessories as part of your system.

For less than \$110, you can start to build up your tape playing system with a Bell Tape Transport. See and thady its performance in your Bell dealer's showroom today.

Bell Sound Systems, Inc. 1 Distance of Thotapton Products, Inc.) 555 Marien Rd., Columbus, Ohio

### A model for you ....

There are 4 basic models of the Bell Tape Transport, each distinguished by different head arrangements to perform exactly to your requirements.

- 1-200-Monoral Erose/Locard Playback
- 1-201 Adapteral and Searce Infee Offset Partonit
- 1-202-iterated Eross/Decad Maybacky Stores Intime Ottost Proyback
- 1.203 Manageral Bross / Rosand Playback, Stores Inflas-Officer Bross / Becord Playback,
- 7-205 Incorporating the Tape Transport Madel 7-202 with Bell Pre-Amplifier (P-100) and Record-Playback Pro-Amplifier (RF-120) to Portable Corrying Case (Medal 200 CQ.

Add-On Pre-Amplifure, Carrying Case and Stan-Line Microphane are appliable as extre erestastics.



Get the Inside Story!

Send for illustrated a page felder on the field Tape Transport. Includes detailed aperatications and suggestions for unit year can every the Bell Tape Transport with your high heality syttem.

BELL SOUND SYSTEMS, INC., 555 MARION ROAD, COLUMBUS, OHIO

HICH FIDELITY MACATINE

#### TESTED IN THE HOME

#### Continued from page 108

1078 is 3.5 db, industing all perits and college, from 45 to 10,000 op. We had bayed dust 1778 would notice the ability of this spectrum to anny its ested power of 50 weats without brookupy a remarkable assemptions. For an 8-back low-spectrum.

#### Allied Knight-Kit FM Tuner

SPECIFICATEGORE (Revealed by menufacturer): an Antoning taxes in hit form. Funding ranges 50 to 100 mL Samuhitvitys 6 on for 20 do galating careas taxing range. All restantions funders to 1, taxage rejustime all do with 10 pri lapet signal. Proposery responses 2: 6.5 do, 20 to 20,000 spi. Harmanic divioritians 6.6% with 5,000 pri synul. 21% modulated. Inco 20 to 30,000 ga. Norm 47 do balan 1 with oxiget signal. Output valuescent 1 is for 300 pri appet adulated 20%, 2 v our for 1,000 pri lapet, modulated 20%, tapets 200-far cataona. Contracts taxing function with (AC-OFF, Fit, for/APC). Outputs two, in parallel, from 3,000-ake cothad fullerer avera bitmondung 13 to, wide by 4 high by 8 dasp, over all. Prior: 530.9%. Arm., Chirogo 50, 55.

And/o amphiliers are sufficiently uncritical of writing and component arcentation that their construction from hits need never he too such of a challenge to arrow who is capable of realting an electrically analy soldcured connection. FM inners, to the contrary, handle such high frequencies that parts placement can be entremely critical a sometimes to much so that a capacitor pigtal lead cut as much to long can throw the whole thing out of kilter.

Despite this, there have been several PM innor hits as carefully worked ant that the average home constructor, following the instructions to the letter, could assemble them with a high degree of asserance that they would most opecifications. There was, however, still need for core in lead arisentation and photospent of capaciters and reminises, and if the builder happened to be a little iss about these thougs, the insided posture's performance could fall shore of its original design specifications.

In the Knight-lat FM tunny, all the critical wiring has already been done on a printed circuit board. All the builder result do is attach the anall compensative to the board on the chants frame, and then the them all together. Consequently, the Knight-lit FM tunner is almust as easy to build as a simple lift presemplifier, and will work at close to peak performance without the seed for instrument allgements.

The toney circuit uses an untrused encode RF amphiler input stage, coupled to a miner stage through a single tuned coil. Then comes the combined ancillater and APC control tube, whose latter function can be cut to or out by the tuner's front-punel function relector switch.

There are two LF amphilier stages, and then a ratio detector which feeds a direct-coupled and a same amplifier and cathode-follower output. Both output occurrentions are paralleled, so one can be used to feed a tape recorder while the other pact directly to the ratio amplifier system.

The hit task use only about eight hences to build, which for an FM tuner is quite an accomplishment on Knight's part, No mags were encountered; all the parts fitted together cleanly and easily, and the whole operation was facilitated by detailed and cleanly written step-by-step instructions. There were a few points left usuald that pright have been emphasized, so I'll mention them here. First, read gach steps all the may through before following it out; some hyportast statements are left to the last sentence.

Second, must of the divertions state clearly whether a connection distribut or should not be antiferred, but in some cases this isn't mentiozed. When it is not, don't solder, the addgring directive will open later an

Third, there are two small-companent leads whech, when passed through the circuit board, should not be trippinged off. However, when all the companying and manufest and anbieved, and the time comes to map their leads off, it is an easy matter to cut the important two along with the rest. It might he theypley to howe theme two components off the board until the others have been attached, soldered, and clipped short, and them to add the 2ngt two glauns.

Finally, when installing the tuning look amoughly and the function rwitch, these will be fastered more fruit if they betweehers are placed behild the painter panel instead of order the mounting runts in front of the panel as directed.

When our unit was completed, I tried the simple by-car alignment procedure described in the manual, and then checked, the tuner's performance. Semistivity was found to be high enough for moderate-strength signal areas, selectivity was good but a rifle indefacto (lances of transpot tuning were observed), and zone channess varied from excellent to good, depending upon the mononing signal strength. It was probably meeting for



The Kutchi-hit some in the model cohenes.

specifications, and I would have deemed this a good tunce at the price, but the price would have entered into my favorable reaction.

After meter alignment, however, there was a marked improvement in nearly all departments. Semitrivity was obviously quite a hit better, probably equalling ar eccereding the rated 4 ov for 20 db quitting, and selectivity and suppression of adjacent-channel futerference were very prod-

Distortion was very low and stability was also unusually good. There was very little drift during the first ten minutes of warmop, and mone thereafter; the APC was able to compensate for what little foregamery drift there was.

MANUFACTURES'S COMMENT: The Alline English's PAI lease to new supplied with proceedy effected II reconformers that require no inmemory alignment for quelty performance, After the II transformers are reacted from the transformer mendiatures (othe gives them a standard pro-alignment, they are placed to a Ja, which pressily depthents the disributed separation and back indeptorents of the Rei tener density, and non-rotationed "to the meat". This eliminates the series for any alignment as the part of the builder, compt for a single trading adjustment by means of the sufficient tenter leasted on top of the tening separates. part 2

# A Hi-Fi Primer

### by John H. Newitt

NOW THAT we have covered the basics of second systems, so to speak, we can turn our intention to some of the components themselves, in order to arised sevenbes as to what they can or can't do, and how best to use them. It doesn't really matter which one we start with, so I have picked the basic matter. For one thing, all the basic informatter about mechanical compliance and more discussed herein applies also to the subjects of orclosures and phonograph contridges. Since we are to deal with these later, we can get our elementary physics out of the way once and for all.

THE LOUDSPEAKER-as it is contenary to point outto a transduper. That is to may, it changes our form of energy into another. In this instance, the electrical output from an amplifier is changed into anand waves. Since around is a mechanical disturbunce of air particles, we must predace mechanical disturbunce of air particles, we must predace mechanical disturbance to derive mochanteel metion from electrical impoles, and its construction is such that this metion is applied against large quantities of air particles.

As may be seen from Fig. 1, a common cone handspeaker has two mate parts. These are the motor, which seminates the destroid matten, and the displarage, which distributes the matten over a large enough area to set up a stable coddule distorbance. At the spec of the cone-shaped displarages in Fig. 1, a cylindrical stackment contains an electrical wire wrating called the veloc and which is mechanically affected vibrated by the interestion of incoming electrical topolocs with a magnetic field. The view coll structure and the dophrogen to which it is rigidly attached are both electrically aspective in more in one dimension (in and out of the mater hat). It is easy new, to picture have a single poles of electricity, delevand from the amplifier, at the leadopender its destroy as the pole passes through the specifier it destroy are pole at the another budopender its action as the pole passes through the specifier its destroy are pole at the another budopender its destroy and the second passes through the specifier its destroy are pole at the another budopender its action are not be displayed.



110

When the displaceges encours autourd it pushes (ontopressed) a quantity of sit alread of timely, and when it moves back into the motor but it haves a vacancy (decompressed area). When a series of electrical impedies in fail into the motor but a series of electrical impedies and a corresponding protex of around waves in produced. We may now recall that the our bas certain limitations as to part have few and how many cound impulses if can deter in a ground of time. Our mechanical device hierone has area physical impedies. The size, of ensure, is to have the mechanical basispeaker device respond evenly across the tend or freeparty range to which the rar is respond to these or fill as accomplished to are in any new the mechanical basispeaker device respond evenly across the tend or freeparty range to which the rar is responded. How well this is accomplished to are inclusive of the fidelity of the unit.

In order to understand some of the limitations of a insdepeaker, it is well to incor the memory of the terms sumice and compliant reaction. These are nothing more than high-sounding technical terms for simple things that we already know from everyday Mo. Main, for our purposes, can be considered to be synanymous with weight, while compliance is the springhess of a material Lot's are how these fasters affect the landspeaker drasters. We all know that it is more difficult to wave a heavy object than a light one in the sir. This effect is one example of inertia," which is dependent upon the most of an object. The heavy object has more inertia and than "coacts" more strongly to the force which is opplied to R. Nate, however, that the more deady we move our heavy object, the easter it is: its reactioner to busing hold to a low value. Try it, with semething heavy, and you will experience this force first hand. Now, if we think of our attempted movements as fregunney (number of reversals of unevenient per uppend), we realize that the mastive reactance increases as we try to increase the frequency of motion-on tespertant basic physical law that applies to all objects. In the ener of the loodqueaker displicages, suppose we want to move it rapidly, at a high frequency, to produce the upper monical range. We would then want it made from the lightest possible material, to herp its materies continuer low. These we use poper disploragent in our envoutional Inudqueakers.

Now for examplestions. We nerrorly wont a large chaplesages, of course, so we can reove a large quantity of siz. But we must remember too that the bigger the displanges, the greater fit weight. If we try to rechare its weight by making it channer, it will-eventually-becente too cheft and frail to push the siz without characing. Such is the difference of the designer. The quality of

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any loudspeaker depends largely on the judicious proportioning of these opposing factors. To generalize, a large loudspeaker eannet respond ideally to the upper frequency range of music because of its relatively heavy diaphragm. There have been devised various special measures to overcome this limitation. A second, smaller, supplementary speaker unit, with a lighter displiming is one solution commonly used. A large speaker (called a woofer) reproduces low frequencies and a small one (called a tweeter) handles the light. Then there are so-called full-range speakers, driven by single voicecoils but with the cone specially treated so that its outer and inner areas actually act in separate woofer and tweeter capacities.

Where does compliance come in? We realize that we cannot make an actual londspeaker as simply as that in Fig. 1. We must clastically restrain both the apex and the outer edge of the disphragm somebow, since we want the voice-coil structure to come back to twestral position after its work is done. The elastic restraining supports in this case must completely restrict side to side motion but must be very compliant to back and forth movement. A suspension that is too stiff in the back and forth direction will respict volume and give rise to distortion. To visualize the effect of compliant action, refer to Fig. 2, which shows an ordinary coil, spring (a compliance device) fastened to a stationary block at its far end. We are now going to push on the free end. We do not immediately infice the springy reactance to our push. Only as the preisure is transfeired from one call to another down the line to the stationary end does the counter-neuctance start to build up. Further, note that so long as the colls are free to have away from our force they do not build up counterreactance. It is when the last call becomes compressed and finds that it cannot move anywhere that the reaction back toward the annes of compression starts to build up. Suppose, then, that we simply give the spring a fast push-a pulse of energy. If this is a short emough pulse, our hand is being drawn away from the spring before the spring has had a chance to hadd up its counterreaction. From this chie we can deduce another basic physical law: as we increase the frequency di pulsation, the reactance from our compliance becomes less and less, until at some high frequency it/virtually vanishes; there is no reactance at all. A small amount of frictional resistance will remain; this is present no matter how fast or slowly we pulse the coil.

So we see that the massive and compliant forces which vary with speed (frequency) act oppositely to each other. Massive reactance has little effect at low frequencies but its effect increases with frequency and becomes the limiting factor to the high-frequency response of loadspeakers. Compliant reactance, on the other hand, disappears at high frequencies but makes its

presence moven at low frequencies and is the controlling fuctor at that end of the range. Somewhere, intermediate in the frequency range, these two apposing forces must obviously be equal in magnitude and will then act to cancel each other. Such a condition is what we commonly refer to as resonance, and has some interesting mmilicution's At resonance there is a continual transfer of energy (circulation) between the mass and the compliance of the system. Since the two effects then cancel, only the frictional action is left to absorb for dissinate) the circuliting energy. Systems which have very little friction (such as a bell or a tuning furk) may continue to oscillate (transfer energy between the mass and the compliance) for a very long time after an initial pulse is supplied, before coming to rest. To visual-ize how the mass and compliant forces counteract one another and produce the circulating energy condition culled resonance, refer to Fig. 3. Hore may be seen a weight neiting on a coll spring. Let us apply a single pulse of energy to this system and see what takes place. It doesn't matter much whether we mitially push the weight up or down to start the system going, so let's assume we push it downward. This will compress the spring, which in turn will tend to return the weight to its former position. Once the weight is in motion, however, it tends to stay in motion, because of inertia. The weight, therefore, will continue on upward past its normal resting place; the coil spring will be overextended and will lose its force. The weight, now having the greater force, gradually takes control and starts to move downward. Again it will move beyond its normal-vesting place, and the whole process will repeat itself. Each time, to essence, the weight gives some of its force to the spring by compressing it; then the spring returns it by moving the weight. This oscillating action would continue indefinitely were it not for the bending friction in the spring itself and the rubbing friction of the moving elements against the surrounding air particles. Frictional losses dissipate some of the original energy during each cycle of operation, and finally bring the system to rest.

The weight and compliance in any system determine the frequency at which oscillation will take place. This rate or frequency of oscillation is called the resonant frequency. A stiff spring and a light weight produce a high resonant frequency; a soft spring and a large weight yield a low one. Stiffening the spring and a large weight yield a low one. Stiffening the spring in a given system will cause its resonant frequency, softening the spring will lower it. Increasing the weight will lower the resonant frequency and decreasing the weight will cause it. Changing either, thus, will finite the system to a new resonant frequency. The two factors which determine resonant frequency. The two factors which determine resonant frequency. Will strike a balance moteobere (rither inside or outside the operating range of our device), no matter what their proportion. We can thus frade mass for compliance at any resonant point; this principle is











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We mentioned above that the meillating system would eventually come to rest due to frirtiant lours. Sound dirs array, automobiles and other machinery came to rest after the power is cut off. The frictional effect that belows the cocillating system to reat is called dompton, a term to remember, Heavy damping will bring an antilating system to rest quickly, whereas light damping will do as slowly. Fig. 4 illustrates a damping device. Here we have the weight and upring again, but we now have attached an arm and a disp to the weight so that the disc will move up and down in a liquid both or the weight is get into motion. It is apparent that if the liquid is thick or the spacing between the walk of the damping cavity and the damping due is mult the friction will effectively reduce the number of times that the weight con move up and down (for a given pulse) hefore country to rest, If you think about it you will realize that the system depicted in Fig. 4 is exactly analogous to the auspenders systems of both our loadspeaker and our automobile. The body structure (weight) of the automobile is lighted from the road by springs, and parallel hydraulie shock shuarbers act as damping devices. Lacking the latter, our car would aerillate up and down many times for each bamp it encountereda melly richt!

Damping affects a londqueaker to much the same way, consisting as it does of a weighty displaying and. voice call ameriture surpanded by springs from a frame. Far faithful mound reproduction, we want a single pulse of electrical every to create a single methanical pulsation on the loudsproker displicages, not on undamped service of oscillations. A londapeaker that to poorly damped at and approved its resonant point will, of course, deliver much a series of assess! waves for a angle pulse of energy. This we call "bangener" as "ringing" and it goes without saying that the sound output under such conditions is harnly a faithful reproduction of the (newning electrical waveform," We must, therefore, enher aveid operation ermony the vectorized picini of the speaker or vie must be are it is sufficiently damped by one means or establer to reproduce the incassing waveform properly. Note at this procture that the acoustic enclosure. in which the speaker operates can be made in evert a damping effect on the hundepeaker displaragen Matty enclosure designs take adventage of this.

Domping can also be brought abrait electrically through the amplifier of the dynamic. This consists of the production of electrical "drag" on the value coll faceli. Since the value cult is connected to the amplifier. Amplifier damping that exists in the amplifier. Amplifier damping is of course electrical rather than anchanted in origin, but its effect is mechanical when it to transferred to the value cuit.

Finally, seeme darapting is usually provided in the mechanical design of the operator starill and thus there possible sources of damping are at the disposal of the designer. Good practice usually dictates that a propartional share of damping he obtained fram each of these sources.

Fig. 5 shows the cross-section view of a modern electro-dynamic loudspeaker. Here, it will be seen that the came or disphrages is fastened at its outer edge to the backet-type frame of the knichtpeaker. Notice that some sent of an outer edge compliance is provided to all speakers (consular convulstions around the periphery of the cone in this case); areas speakers use a sing of ask brother in place of the secondar corregations, others use pent-suspension by fram rabber blocks. The voice coil structure must also be supported. This is accomplished by enother annular displacing that is located on the speaker body right behind the cone apez. This restricts the voice call so that it can easy move in and out of the small airgap alat, and without rability, As a general thing, speakers are designed so that as much as possible of the compliance is fugatshed by these apports, Ideally, the bady of the cone should move in and out as a unit, from as a mild piston.

#### Summary:

- The reactance effect of musi (weight) becomes greater as the frequency of mution it increased.
- 2. The reactance effect of compliance (spring suspenden) becomes less as the frequency of matters is inevased.
- 3. The effect of frintion is independent of frequency: frictional force produces a mechanical "drug" which is called damping when applied to an oscillating system. Friction acts to absorb and dissipute the matismal energy of a system, and will overstually bring it to rest if my additional energy is supplied to it.
- The resonant frequency of a mechanical system is its network perfort of ancillations (a., the frequency at which the system will accillate when a single police of emergy is supplied.
- A mechanical device having both compliance and mass will have some natural resonant frequency. The remment frequency in any glops care is determined by the annual of mass and compliance present.
- 6. At recongence the compliant and monster, mathematics are equal died appende and theoretice control loaving only fraction to control how some the system will come to rest after an instituting palm of every has been applied. Priction is very after purposely added to a mechandral device to chautante ar control its tendency toward mechanical application of and around its retunned its





### The new ALTEC 604D



Since its infoduction byeive years ago, the ALTEC 604 coaxial type speaker has been the recognized standand for use as a monitor speaker in the largest recording standow and broadcast stations.

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It incorporates a more highly developed dividing network with smooth twelve db per octave attenuation, plus a new shelving control adjustable to every individunit room condition. Other outstanding design fantures of the new 604D Duplex are: improved bass cone and suspansion, smoother high end quality, and redesigned pole-piece for a deeper magnetic gap and even less low frequency distortion.

The result is the most *fulliful* reproduction of sound obtainable with a coaxial speaker. Transients are wirtually eliminated.

Basides its new features, the 604D still, has these time-proven elements: annular centering spider and viscous damped compliance ... an edge-wound, doubleinsulated ribbon bass voice-coil which moves in an extremely deep magnetic gap in order to assure the same efficiency throughout its excursion ..., fatigue resistant tangential compliance high frequency diaphragm with exponential multicellar horn.

Powerz 35 watts (50 peak); Guaranteed Frequency Response; 30 to 22,000 cycles; Impedance: 16 ohms; Magnet Weight: 5.6 lbs.; Max. Cone Resonance; 40 cycles; Distribution; 90° hor., 40° vert;; Diameter; 15-3/16; Depth: 14-1/8.



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## AUDIO FORUM

#### Hysterecis Motors

Sen

I have observed that must of the highest-quality phono turniables are equipped with hysteresis-synchronous motors, yet their specifications for speed regulation and rumble do not appear to be any better than those of some turntables using induction motors.

Is this first such appeal of some kind, or is there actually a good reatem for using a hysteresis-synchronous motor in a phone turntable?

Alon Grey Kunsas City, big.

The speed of an induction motor depends mainly agen the coltage being fed to it, so when the supply college is a house drops during specieds of heavy load, on induction turntable will tend to run descer thes permal.

When a synchronous instor has reached the normal openating epond. it will "lock" in step with the alternations of the AC supply feeding B, so as long as the supply frequency remotor constant, a hysteresis motor cuil run at a constant speech. It is thus largely independent of variations in line voltage, so earn though its Instantaneous spord variation (flutter) may be no more or less than that of an induction motor, its hongterm speed all remain constant as long as the power company's generators run at the proper speed (which they unully do).

Hyderodo-synchrotous mators also have the advantage of bring almost completely free of the AC suggestic radiation which can induce how into conceptible pickup cartyleges.

#### Headphone Connections

Sinte

How may I go about convecting 6 pair of high-impedance headphones across the cosput terminals of a power complifter?

I have been advised to use a matching traitformer, but I do not know which of the many types listed in catalogues would unit my needs.

Llogal D. Educarda Providence, R. L. A gate of high-hapedones headphones may be compacted to the output from a power amplifier by removing the hondepeaker <u>connections</u>, replacing them with a 10-wate resistor of the Astro redictance as the impedance of the speaker agatem, and connecting the headphones across this resistor.

If desired, a single-pole doublethrow applich may be installed at the amplifier output to change the connections (row) speaker to headphenes

#### Recorded Sounds

#### Sunz

Can you explain to me how it is possible for a record proove to carry two or more taxes of different frequency?

I understand that a single-frequently tone causes the groove to swing from side to side a certain sumber of times per second, but I cannot conceive of how ft can swing back and forth at two different frequencies simultaneously. Please clarify.

John Clarke New York, N. Y.

Assume that two tones of 100 cycles and 1,000 cycles are to be recorded to the type groces.

The 100-cycle tene by Bady will cause the grooce to easing back and forth 100 times per arcond, while the 1,000-cycle tene will cause ten times the number of swings per second. In other words, during the time televes for the grooce to make one back-andforth axing for the 100-cycle tene, it will make 10 summy for the 1,000cycle tene.

To record both annuals to a single generics, the cutting stylus desply laps 10 high-frequency undefitting along the path of a single loss-frequency undulation. Thus, other the stylus traces the groove, it is adventug at 1,000 times per second all during the tracereal of a single cycle of the 100cycle time.

The groces's corrall path to determbard by the lowest recorded froquency. Additional higher frequency tours simply add to the complexity of the grocese path within its general course.

#### Record Storage

#### Sum

A fevr years ago, when I learned I was going into the army, I was faced with the problem of storing records and protecting there from warpigg, dant, and milder, Here's the way I tackled R, and R worked so well I can recommend R to anyone with a similar problem.

Materials needed include a roll of abuninum feil, nume jelly glasses, araling wax, a double boiler, and an ordinary kitchen slove.

Carefully note the orienterminion, composer, conductor, orchestra, and recording characteristic on a suite pad. Proceed to melt the record in the double boiler, and while this is melting, cut a few one-meh squares of ahominum fail and drop them trits the clean felly gluze. When the record has melted completely, pour it through the store bato a jolly glass (to strain out the labels). Allow it to cool, and top with a copiess amount of melted scaling was. Transfer the information to a gummed label and affit to the glass Store in a cool dry place. (If you're wondering about the foil squares, they tend to prevent statis charges from building up during the storage period.)

I am proud to say that not one of my prized records was damaged by dird, mildew, or static charges.

Robert G. Bellis Carlisle, Pa.

P. S.: My mine Testanted Besthoven Symphonies fit ejocity into a gallen mayonesise jar, which I picked up from the delicateson down the street.

Not only has Mr. Bellis Echod the dust and militare problem, he has also come up with the altimate means for eleminating record and apples wear. We would heatiste, however, to endone Mr. Bellif's memorities, to endone Mr. Bellif's memorities because of the extrame difficulty of cataloguing the records thus stored, and the audissardness of storing the records thus cataloguest.

Also, what about the fickets?

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#### HIGH FIDELITY

#### A Prectical Guide

by Change Power

Here as has in the back for the bregimer — are that mether makes are overcased bin knowledge or phility to enderstand high fidshey. Work emerged choiry and in our the right second of detail is contained to relatively and in our the right second of detail is contained to relatively and in our observation of the ranker is able to minimum an informed and resourced redgement as on when would have must his corp, case, the produble space, and the purse — in building, in buying, or in adding to his high-tablety sympth. In short — a complete, inclight, and harms reported in the series high addition 64.01 234

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A mechanical bank on the specialized approach second mant. The anoher discusses and only electricity failer, but the mechanical and accounted delers which came a bi-b switch as fearants has ches perfortly The band is clearly orners and world feedback 232

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HERE FIDELITY MAGAZINE

#### **AUDIO FORUM**

#### Continued from page 117

#### Stylus Force

Settas

In reading various advartisements about various phone pickup cortridges, I have noticed that must manulocturers specify a range of recommended styles force rather than a specific value of force.

Why is this? I thought that every pickup cartridge had a single optimum value of styles force, and that a value above or below that would increase record and styles wear.

Jerrere L. Workman Philadelphia, Pa.

There definitely is an optimum tracking force for every pickup, but this is deteristical to each case by the characteristics of the pickup area as well as by the characteristics of the cartridge likely.

If the arm is very free-moving, properly balanced about its picate, and almost perfectly free of accombines of all types, the optimum-tracking force will depend on the compliance of the centridge's atyles seemably and the offective meaning mass at the atyles tip. If the pickup orm is less estimatory in these respects, higher colore of stylus force will have to be suid to precent the atyles from riding top the grown walls or peoplicity propring out of the grown.

Another factor incolved is the colume of mand recorded on a dire. The more loudly a disc is recorded, the more stylus force will be needed to nationale good stylus groove context, all other things being equal. With most pickup contridges, the optimum stylus force will be that which given the least distortion on most regardings.

Generally speaking, a fine tranacription arm coll permit soud cartridges to be tracked on most records at this lowest value of force specified by the contridge manufactures, Recand changers and inexpension trepacreption players will proceedly require the highest value of force that to appecified. If in dealt about any cartifilize, track it at as loss a force as panalis, concentrat with maile chronitness from most LP diace. If this happens to call for a farce of over 8 grams, some component in the segreducing system to probably detection er willy enberedurd.

#### Magnetized Playback Head

Smit

I have encountered a perpleting problem with my home-bailt tape recorder. I have a Viking tape deck which I have rigged up with an erase head and two recard/playback heads. One of the latter towi to used for recording, and the other is used for playback through a reporter amplifier, so that I can monitor form the tape while recording.

My problem is head gauge-tization, but the thing that perizzles me is that it is the playback head that become magnetized, instead of the record head.

I get excessive hist form every tape I play. I have tried cleanagesetizing the beach, and this helps for about two or three minutes, at which time the hist gradiably comes up again. Obviondly, I have muse DG current tumning through the playhack head, but this head gues directly to the grid of the presimplifier tube, so I do not see how flags could possibly be any voltage applied to it.

Disconcering both of the other heads makes no difference, so I know the trouble snust be originating in the playback head.

It has no balled. Can you help? R. con Dook Houston, Texas

The only passibility us can see is that your playback proceedifor tube to prove, and is consequently drowing enough orbit corrent to induce some residual DC megnetization into your playback head.

Try replacing the tube, or twent a 0.3 off 400-call capacitor between the tube grid and the tweening head lead. Then place a \$00,000-ohes resister between the grid and ground, to write as a grid resistor for the prompsifier.

#### **Tape Speed Fluctuations**

Sen:

I have a perplexing problem concerning my tape recorder, and I hope you can help me.

At times, when playing back a proviously recorded tape (recorded either from records or from the radio) it amounts almost as if it was being playes? at the wrong speed, And there is a very noticeable flutter and wow present. Yet, at other times, the same tape will much exactly right.

At first, I thought it was the recorder itself, and I took it back to the dealer from whom I purchased it. He was unable to find anything wrong with it. He did suggest however that, more my recorder does not upo a synchronoms motor, the speed variation could be caused by firetuotions in the house AC supply. I told

Continued on nois flags

## 7 WAYS TO MAKE LOVE TO YOUR RECORDS

#### GIVE THEM DIAMONDS!

Grouner Calumbia Januard dy needle gives month langer life, maken view assessed beam Comment of perfect by Columbia consistent, Provision mode for all phasesgraphs.



#### TAKE THEM OUT MORE OFTEN!

Columbia langes peo the most beauties remail corrying crum to Amatica-perfect ter penygame, verticalize, strive les and entenan: Available la elere pres va half college 7°, 10°, or 13° second Bech care beide up to dil reports with infers. Arabilité in blag-and white, cherciale and geny, Mack coll gap, gray-and est, et borros and est.



#### GIVE THEM A HOME OF THEIR OWN!

Deep beverstally designed Calenaba spaced ordes are bailt to bold both 7° ordes 12° recently. Import particul scanding sident recepting or particular sident boungers leven found



Comments and the second of a second s

#### GIVE THEM FUR!

Colourth's a adda-cell least classe recents as dery play, Ingenous reacted, provyty recently, Generated agt to scatch deficits model address. Proceeding weighterne. Pirs all some arms.

#### BE PROTECTIVE AT ALL TIMES!

Committee electronic specy classes your exciteds, indexcass and eacide wrm, backdest contrying grans, backdes oblicities, fingle covarian althouses, fingle covariant lasts several monito.



#### HELP THEM STAY YOUNG-LOOKING ALWAYS!

Commission electronisment clerith kompsi ecceede nimesis the news, Electronis prote to it cleans. Bannesso dont dist, gamm, being have ministra form becomening scienched. Commission electronis.



Copy the Sound of Restar on Columbia Reards



Pages on suggested bit. O Galantie Mane Bre

-Q ... the ultimate goal Insant of the critical listener Andia Consolette Power Hample -----Electromic Prossant 100.0 Bertenter minter west ef bie biet-ste maraniz company din in Constants 25-14 Broad-09 Long Island City G. N. Y.

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The New Yorker crosses area of 800 cycles, using 1808 per extern.

Henry support colds and paper condensed or used to the converte. Coloners in dark makingony, fruithread finished makingany, bland Kating, valued or charge, 200 Ma, minimum weights, 60° + 20° + 10% (down to bath). With for suggest deploy



#### AUDIO FORUM

Continued from proceeding mage

him that our television act plas a member of other lights and application were on the same line, and he said that these enald very possibly account for the changes its human voltage.

To check this, I task the recorder to the home of one of my cousins, who has a recorder of his own, as well as a complete high-fidelity actup. First we played a tape which I had previously recorded on my receptive, and & muncled perfect. Then we recorded a simpler of selections from the radio, and the quality was again perfects.

Undertunately, I have not been able to finitall a separate line for my own miss and I would actually life to know if this is absolutely uccumpy, or if there might not be another reaom for the variations in the quality of the tapes I have recorded. It has come as the point where I am never are at to the outstand of goty tops I wish to record,

Any suggestions or librar yes might have on the subject would by greatly appreciated.

> Not Toverne New Hysle Park, N. Y.

Is to possible that line veltage cartations could account for the spread fluctuation in your recorder, but it is certain that users this the case you would observe fluctuations in the bellhance of the electric lumps in your hanne. If these are spon to fluctuate with varying lands, gas had laster consult on observiced contractor, and appn, as your house wiritig may he estericated to the paint schere it constitutes a fire bezervit.

If you do not notice constitutes in your house illumination, then the transport mechanism in your recorder is probably in need of attention.

Check for drive orriacos contanuinated with all or dirt, and clean the expanse, pinch school, and guide anjacros with lengrappi oleched. Then consult the recorder's service manual, check for correct takeup and heating templace, and make sure that the primer cleanances exist batteren chatch and drive surfaces in various operating modes.

If none of these suggestions cure your troubles, return your recorder to the menufacturer for a complete checkup. 6



HIGH FIDELITY MAGAZINE

#### MEN WHO SHAPE

#### Continued from page 40

"morlern" music making-was added when it became obvious that a market did not exist for each and every Bach cantata. Porty seemed to fill the need. There were at least a bundred small companies doing more or less what we were doing." Seymour, who is in charge of artists and reportable, said. "I thank we survived because we were distationalisating in our choice of repertrare; we found the right artists and the right working conditions." They worked hard, too, prepared practical editions of the contatos largely from manuferint, went to the music monuals of the period for the traditional manner of performance, supplied the figured hars and orizing station implied in the manuscripts. "It is isopossible to be completely authentic= among wood-wind instruments, for histance, only the recorders and the abor de caccie survive from Bach's time-but we came as close as we could, always trying to achieve to the intent of the composer."

Seymour is a speciality in the bareque period of mane, and believes the trick is ancereatful recording of period music "is to tread a careful path between peclantic authenticity on the one hand, and had tasks on the other."

Maynard Solomon concentrates an the sales and promotional cods of the histhess (although recently he come up with a fine repertoire bles: Erich Kunz in an album of Cerman universty surgs) while Sevences handles the munical cod, which includes, for him, setting the halances during recording seasons. 'Our principle of opcrution," he caid, "is to week a plantihis illusion of the concert hall performance. This means appling the dyname range down to living-runse proparticus." He is presently enthused about the possibilities in three-track stereo recordings and while Vanguard galand its reputation through the officert, even conterio reperioire, has now the pleasant job of recording the nine Beethoven symplicaties, with Sir Adrian Boult and the London Pholhormonic.

"We gain entrance into more shops in this country with standard repertairs," he said, "and car overness marlets demand it. The problem of too neary versions hardly exists custode this consistry." Vanguard now has a popular division, tan, and one of its allmans, The Wanners at Cornegie

Condition on next page

**S**D



THORENS CB-33 448 MET

### HI-Fi budget strictly limited? HI-Fi taste out of this world?

The Thereas Model CB-33P Mississi Player gives you a complete 12" turntable and arm, adjusted for optimum tracking, on an integral mounting plate. These are the same basic precision components you get in the mare expensive Thereas changer and automatic, record players. Some motor, same turntable, some arm. Comes complete with two plate-is shells, shielded cable and 45 rpm edapter.

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THORE DO CELA-B3 Audion atts Player analogies the best features of both shanger and turelable. Your hand need negrer tamps som at all A pushbatfan tamps cate som gently down at start and needs and turns to rest and mater shuts all at and of record.

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	February 7, 0, 9	Dunner	Consepction Natur
	March 7, 8, 9	Pendurgh	From Diseason Parel
	March 21, 22, 23	Heware .	Robert Treat Patel
	March 26, 29, 38	Ballmars	Lord Baltimore Helef.

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GRADO LABORATORISS . 4014 SEVENTR AVERILE . BROOKSTN 20, NEW YORK ENDIE

#### MEN WHO SHAPE

Continued from proceeding page

Hall, is one of the hest-orling LPs in the United States. This heady mecess will not deter Vangmard from continuing its series of English madrigal recentings. These has been a simply incredible development of unsimal tante in first country during the LP ers," Solomon soid. "Madrigals are commercially feasible."

THE BEST-SELLING chosen LP for the past year and a half has been Mercury's version of Tchaikavsky's 1812 Overture Fourteen versions of his popular computition exist on records, but there is good reason for Mercury's being the overwhelving Brat chatce of the manical populace. Antal Dorats and the Minneapolis Symphony are accompanied in their readition by the University of Minwents Brass Band, the bells of the Hartness Memorial Tower at Yala Uneversity, and a West Point brunny entering. This last disconcerting effect has never had its precedent in the concert hall, but it was the intent of the original communion of the piece in 1580 to have actual gundre. Behind this interesting repertates idea was Wilson Count, Mescury's vice-president and the company's director of artists and repetimire.

None of Mus Count's colleaguecompetitors will dispute the statement that she is by far the prettiest a la r director in the business. Tall, darkhalved, and indomitably devoted to good energy reproduction, and came to the cronymory serves years ago fresh from postgraduate work in music st Nurth Texas State College. That was in 1950; she was just in time for Mercury's Insugantian of the Olymptan Living Presence series. We made an excellent impression with our and release-Pictures of an Eshiluston, with Kubelik conducting the Chicago Symptony Orchestra. We rescured the reputation of the Chicago Sypphonys. an meands at least, and & became a bigariling archestre. Bob Pine books down the misconception that it was unpossible to record to Orchestra Hall. He total a single Telefunkten mehe, placing it directly over the conchartor's head, with no decriving of levels.

"We believe," she continued, "in giving the public an authentic reproduction of a munical work, What each conductor gets in the way of somere is left on the tape." Moreory's techvique, which is in the bands of the informationed Bob Fine, a talevited engineer (and Miss Count's bushand), is eminently satisfactory to a

HIGH FIDELINY MAGAZINE

large group of listeners, to palge by the mirs of recordings much by the Chicago, Minneapolis, and Detroit symphony orchestras. Other Researces have been known to granulite at the necessity to jump from their seats and attend these amplifier controls. But Miss Camer is not averas to each listener's being his own engineer and balance acter.

Mercury's classical catalogue is devoted to an ideal of sound and a small but select ruster of artists. Among the projects is taken most pride in in the series of recordings of American motile, made at the Ratman School of Music under Howard Hanson's direction, the congers hand recordings directed by Frederick Penrell, and the harp records made by Carlos Salzedy.

Wilms Coust is also proud of the fact that not doe entry in the catalages dates from the pre-ligh-lidelity era. Note, too, that Mercury was the firth to imme three-channel stores recardings. For those who might complus that certain passages in Mercury records need passe volume cantrol, she firmly states. "We are not in the business of making classical mood maste, after all." Her prescription for linguing to the cannon in the 1822 Overturer "Pull volume!"

#### SNARK SPOOR

#### Continued from page 45

on a bundoe skill, know the answer to that cao.

Well, there we are. The authorities I have exted were not chairs rarefully to prove a thesis, they were chosen procisely because they are an thorities, and really knowledgeable ones at that. They know their humness at least as well as any comparahie authorities in other hears her of engineering, and their opinions are entitled to the utmost respect, the hi-B budness bring what it is. But, as I have tried to show, it is a dehauve butiness, with science and not sense determining the accounts. Until all of of the the business-designers, manfacturers, reviewors, and (most important) contonners-realize that all we are after to the best possible reproduction of our favoring availe, and not a prestige medal in the iroquencyrispons and power-output states, a lat of maney is going to be spent as the shadow, with the substance bring left on the shell. We should not innore the end of The Hunding of the Smark when, after much frustrating and persions hunting, it was discovered that "the Snart was a Boglan. YON 680.

JANUARY 1958





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If intening to good south is one of the principal interests in your house, the Newcamb Compact 200 is dedigned specifically for you. The 200 cambings britilians performance with provembries dependability, freedom from geneticles, and uset hermenticus styling. Virtually live from distortion and hous, the Newcamb 200 has an optimum, measured Phi sensitivity of 2 microvalm for 30 do of quieting. Unions stability is assured by anap-in estimants, frequency control and temperature constabled escillators. The Compact 200 has a modificat jack, up to 10 voits from a cathodu follower estput percluting remove plittement up to 200 feet from amphilier, and unsurputed compositional theling eye. All of this behefiltetly indenced engineering is dressed in a gold-temest cohiest measuring just 1216 'x 4% 'x 4% 'x 9'. Linter carefully and import the Newcamb Compact 200 closely before you decide on the tensor you plan to live with. Enlightened comparatory closes Newcamb 3 firms out of 10. The 200 is not available to every dealer. Wrise for the imms of the Selected Newcamb Specialist nearest you,

Records in Review

1957

The Third High Fidelity Annual

Edited by Jaco Griffiths, Anter Rive, Bas Penner Maptin

Here, -because the server of a single valuese, is the engine goldence would by servers who would east intelligent purchases of LPs and super.

This book, the only one of its kind, contains over 900 reviews of classical and comiclessical music, and the spoken word, that have appeared in Hase Peneterv Magazine from July 1956 shoungh Jone 1957. The reviews cover the mories of the performance, the quality of the recording, and comparative evaluations with releases of poviews years. They are written by some of this country's most dia, tinguished crists.

The reviews are argumented for easy reference — alphabesically by composer and, when the comber of colosses for any given composer warrants, are divided forther into classifications each as explained, chamber music, etc. An index of composers is included. The best is princed in clear syme an few quality paper, correctively bound and packered.

RECORDS DI REVIEW is published by the Wyoth Press, an utilizes of Hean Press, very Magazine.

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Be sure to order copies to give as Christmas Gifts for your mesioloving friends.

No Well Reso Gred Restages, Bass. I enders J
premier in forden odere enser Canada.

#### **BOSTON SYMPHONY**

**Continued** from page 51

register. Dr. Muck, with his usual sereness and dry error of humor, get a real bick out of it and the orchester, get a greef height

On the sensers were, the rest of Tenniny, all day Wednesday, the name on Thursday, and again on Priday. When the Tchaikovsky finale was astisfactorily engraved, it was decided to go ahead and record the deriver pieces that Librarian Regers had brought along. No tour that the orchestra had ever undertailon was more measures than this, but by the ord of the last continue, on Pridey afternoon, everyone shared the oxhibration of having participated in a great event. Even Dr. Mach, who had at first recented baving to innov his conformable Mater hemo a work ordy, was pleased with the recells.

How pleased can best be judged from an ancedote told in the November 1000 tenue of The Phonegraph Monthly Review, one of the ourboat periodicals in the United States devoted exclusively to news, information, and reviews of records. Dr. Muck, Victor Hechert, and anno of the recording men were a little fate seriving at one of the final assulant. As they approached the door of the studie, they heard coming from in-side the provide of the Tchaikovsky Buals. "What are they rehearding the Tchaikovsky again for?" tomeout exclaimed. "That's all finished and recorded, they should be robusing the Lobengrin Preliste." When the door opened, it was discovered that what they had been hearing was a playback of the record which had been made the day before!

It was late Friday offernoon, Octabor 4, when the exhausted musiclass filed shouly out of the Victor laboratory and onto the butter waiting to take them back to Philadelphia. They spent the early evening to the City of Brotherly Love, but they were all too tired for anything hit boarding the train book to Boston. At 10:45 p.m. they were on their way home. In contrast to the trip out, this time there were no cord generi. no groups keeping each other smaller all night. They remained in their own ears and slept as though they had been drugged.

A week later the orthostra's season officially began with the traditional Friday afternoon concert in Symphony Hall. By the time Docemher arrived, the events of the first week of October promed like a dream. But the arrival of the Docember builtons

HADE FREITY MAGAZDIE

of the Victor Talking Machine Company arvved to bring them vividly back to memory.

A triamph-first records by the Baston Symphony Orchestre, ran the prusul announcement on the centerpage spread. Three discs constituted that first release of December 1917exactly forty years ago last month, The finale of the Tchaikovsky Fourth Symphony accupied two single-faced twelve-inch discs (74553/4), each telling for \$1.50; the Prelucie to the Third Act of Laborage (66746) was on a single faced ten-inch disc which sold for \$1.00.

Fram the response of both critics and public it is clear that no orchestral recordings produced anywhere until that time compared in impact with these first Boston Symphony Orchestra recordings. When he heard the finished dies, Victor Herbert esclaimpds "At last it is possible to present the performances of a symphony orchestral Now, everything is possible!" R. D. Darrell, a critic whose writing calibrans these very pages each month, wrote: "The tone of the wood winds is so requisite that one can anly marvel. Previous, phraifing, and tone are equaled only by the balance and clarity. It is hard to avoid superintives when describing these records . . . There was never anything filts them before, there can never be anything quilts like them again." And the announcement in the Victor bulletin concludes with these words: "After years of research and experimentation, we feel that this, our latest achievement, is worthy of our best traditions, for it makes available a whole province of minne which so far has remained untouched, and effors the mudo lover the first of a series of symphony orchestra records which for surpass any orchestral records obtainable mywhere in the world." If this sounds strangely like current processes from this or that menul company about its most recent developments in altra-fidelity or severyheavy, it proves only that the advertising copy writer of 1957 bears is remerkable bleness to his 1917 counterpart.

1047 was the year designated in these pages recently as "the Year One of the present high-fickebry enthantsrem." In a larger sense, however, this date can be moved back three decadre, to 1917, and the herale attempts of the engineers in Comden to reproduce the cymbal crash with which the finals of Tchaikovsky's Fourth Symplemy beging. The ultimate in high-hieldy reproduction will probably remain forever mattamable,

Continued on next page



#### WHAT'S IN ENCLOSUREI AN

In the case of the Tanney C.S., R. Speeder erer jo years' repertence as planares of black (gaming rependention) That's uppride contained been type aphilises mad want the Pillaren " Durd Canantaria gives months which have comput a spacetime on heads alder of the Adapper.

DIMENSIONS: Magazin front to root 29!

TANNOT LANDREAD LTD 10 Presid Street, Mary York & M. Y., Stall.A. TANNOT (CAMADA) LTD

pi Wolangino Grant Find, Tyruna I, Canaria Ca

Designed to a receptors reverse using the reductive Tenner requestion sector provides the C.R.F. anat again there the coparisons and encountrying care, hashed by the later production methods, have produced a initiapolity arriving a mandard by tobicit ashers are judged.

Manteum width 30" Overall beight 44"



UDAX . Die, of Anti-Selet Co., Inc., Dept. R.A.S 30-15 168 ST., Corone SE, H.Y.



#### BOSTON SYMPHONY

Continued from preceding page

hat whatever victories have been won in this continuing bottle in the past forty years were signalled by that cynihul crash in 1017.

One final footnote remains to lar added. It was the intent of the Victor Talking Machine Company to krench the heaviest advertising comparings in Its history in the promotion of the Bottom Symphony Orchestra seconds ings. Included in the plans was a double-page sprend in the Security Revealed Past, A few works after the diars were released, however, there began a whitepering compaline against Dr. Much and his alleged pro-Geranon sympathirt. Assertion had fairent the Alber in April 1017, and in the rea of increahory constitues which fellowed anyheady with Cornan ties was suspect, Mark the mast provident German conductor of the time and a favorite of the Kalacela, was appostally vulnerable. He was sailed in March 1012, and then departed. This supleasantness brought with it a cancollation by the Victor Talking Machange Comparisy of all its plane for the permution of the records and fur a time they over stopped pressing the dists. During the next ten years the Bostoro Synaphony Orchestra re-mained complexically aburnt from the recording studion.

It was out until Movember J.3, 1928, in Serge Kommerstahy's tide momentas Manie Directur, that it again mule rewards. A decade of silvare is a long period to phonographic histary, but the controlouilion of those first hundred ransielans with mode the grimp tree is Consilve assuredly emnet he measured by quantity alone.



#### FIFTY THOUSAND SIDES

#### Continued from suge 38

With the hot styles to achieve clean cutting of high frequencies near the center of the disc, and Variable Genove to permit extra playing time on the three-plat mekes of grouve space, Columbia by 1950 was equipped to incite scare than half an hear of statile on each side of an LP, with a tonal accuracy never before achieved on records.

AS MANY companies have found to their sorrow, not every device feasble in the laboratory can be profitably memulactured for public consumptim. Though Coldmark's most serious engineering problems were lieked by the spring of 1047, munical and production horriers were still to be hurdled before Columbia would have anything to sell. LPs had to be spliced ingether from short-play masters and "safety" transcriptions in such a way that the contermer heard no record breaks, and the factory had to turn out high-quality direr in large quantity, Neither, it soon appeared, was likely to be an cary job.

Goldmark, a musician himself and a great arpheve of the Vignarste composer Karl Goldmark, had thought through the musical problem, and his laboratory had designed a machine to splice short takes together, manifiby, into an LP. The machine-"a real Rube Goldherg contraption," says one of Goldmark's colleagues preverently-grived at Columbia Records from CBS labs in the fall of 1947, together with an engineer to run ft. Columbia Records' own engineers B.D. Severy and Paul Corden, together with a young musician manuel Howand Senat, were applyned to work with him and make surp the splices were musically accurate. Scott, then just beginning what might (but should not) he called his long labors in the vinylyard, had the machine explained to him, then ast down with a score to watch it in action.

The first assignment given the new contraption was the splicing of takes of the Brahms Pezzsth Symphony. Scott played the four-minute bits to be spliced, thered each of them onactly, and set the Goldsmith times to do the work. The first four-minuteside played through on one turstable, and the second four-emission dill begins spinning on the ather. Astomatically, the pickop arm set down on the accord side to make the splice Scott was full of admirzing for the mechanical ingresonmes. Then he

Continued on next page



## THE KEY TO HIGH FIDELITY...



... organizing the controls. Bury control on a well designed high fidelity instrument has a specific and worful function-related to each of the other controls.

The new Harman-Karden Moledy II (A-200) 20 west coupliner in just each an instrument. Consider its operations To play records turn the Rinciles collector to the proper record specification confing. Miximum turnable remoble by operating the results fiber allds would be to operating the results fiber allds would be to see controls in "flat" position, turn the veloces up to a fairly high level. This perthe veloces to make the turnelining adjournments while Ringing at your own maximum afficiency.

Now set the techle and bees controls to eliminate condesirable runnanness in the pickup and hundeprofiler and to adjust for the secostics of your runn. When the proper balance herewers rockle and have him here sufficiently reduce the volume to a lovel helper the second Shearing loved to your runn. Note how this and lifeless the seconds; at low broth everyour, here a asternal insecutivity to have god to the frequencies.

Whit the other canterio unchanged, order through the siz positions of the Harman-Kardon Landson Canteer Cantral until you find the seriling that depilestry the fall hadred aread you enjoyed at high level.

Now turn the volume control to the level at which you wigh to linten. The controls are now properly expanded and your system should perform at its very legal,

If you don't good a Harman-Karden knowmeant you? And it interventing and reverding to check out this procedure of your local high fidelity shareround, Wo'll be hoppy to and you the address along with our complete new comlog. Simply write to Dopt. II-Joi, Harman-Karden, Inc. Wanthury, New York.





## FULL AUDIBLE RANGE



Yew arrow and classes of herdepender response "here, 16 es 20,000 cycles". Even if this were preskable to would not, of head, more accurate reproduction. For helt scape is exply one qualification of a high fakality groups.

Equility improvement in Aver one full makin operations in reproduced. There struct be fine ecopomer throughout the range and the inner possible discortions,

In its processing energy and "provident" officers are often becomerching in buy alway are not fidelary. Broadbacking officers should be help to the recording arrives not to the expendicting equipments.

The is any Kamenan system on Antipart for his an align - she reproduction of alighed sound.

That is why all half-range Klipsch spanne are cherer have. For only while corner have design can a speaker of malarese day reproduce, with maximum duarectors, the lowerst cover an original power levels.

And only corter placement source colleres distribution of crable seases, while minimum reams recentancer throughout the iterating steel,

KLIPHERDERF OFFICERS BER 5473 to (1823.

Urbind .

KLIPSCH & ASSOCIATES

#### FIFTY THOUSAND SIDES

Continued from preceding page

heard the sonic results the machine had missed a bar.

They set it up again and tried again. This time the stylus of down in fust the right place, and then shipped a gronve. Yet again Scott and the coginers art the duits and apen the discs, and yet gots the smaching failed to its faal duty. For two long. increasingly desperate wyelrs Scott and the engineer from the CBS John worked on the first movement of the Brahms Fourth Symphony, and at the end of the two weeks they were precisely where they had started-encept that the acutate master from which the dubbing was to be made had worn down considerable.

At this point Scott took his problem to Barliman, who guided have to a rank where for some yours engineevy and musicsons had been splicing 78-rpm records together from the Million master selecters. Scott's 165 was more difficulty because the re-corded takes on the master saleties had not been valuelated for millions. as takes on tape are today. Much of South's task then involved types together separate 78-opin records, offen at manipully preferrant moments. Marcover, Scatt had a problem no-bady had ever anticipated: to heep the surface noise at a steady level, so Beteners would not be conscious of the differing levels of the original Aleren .

Together; Bachman and Scott everland cast a curing gyplants for the engineers. Twelve acctions were marked on the documbrouses of the turntable and sumbered, to goode the engineers in setting down the stylus. Then Scott would listen to the ends and begintings of the sections to be spliced, and make appropriate maintions on the score. When the time come to art the around turntable in metion, he would call "Cor possel" When the time came to set down the stylus he would call "CO?" and mup bis fingers, ("Even today," Scatt mys, "I'll his at a concert where they're playing samething I allered, and uncutediady I'll map my ingers when they play the rue notes.") Mannal controls finded in the new rooand, and facted out the old and, to guarantee smooth splice and steady awface andjo without any restarting mand. Cohondate's angineses believe that Scott's unlicing in this tricky medoors was as good as anything achieved today in the infinitely more spheruble mediate of tops; notedy has over located, by Visioning, one of Scott's aplices.



MAGNETIC TAPE ERASER

ERCONA CORPORATION (Enclavering Divident) 441 Filtur Ave., Dept. 20 , How York 15, 20. 5. In Canada, Astron Electric Co. Lad. As Desciret Bandy Corport 10 "New that I think back on it," area Viscent Liebler, alkalong his white-haired head, "I'm frightenedthe miracles that were performed."

1

-

Meanwhile, at Cohambia's factury as Bridgeport, Connections, the production regeneers were wrestling with masses of vinvitte and the lomphlack to come it (because vinyble comes fram its makers a dirty-white color considered understrabile) and plastichiers to bind the loganblack-knewling great rulls of the stuff like bread dough. (Earlier Columbia had hought a Banbury miner three stories high. of the kind used by tire companies to mix rubber.) Other engineers were testing metrix materials to see what male the best stamper for pressing vinyhite diacs. (They decided on nichel, which was used for a your, then shifted to special tran plates similar to those used by the Treasury's Buresu of Elegraving to print money; aroung the regimes why counterfaiters get caught is the fact that they use copper plates.) Still other engineers were experimenting with different remures and different temperatures (all hot) in the pressing machines.

All they were dissponded to they were dissponded to the severe dissponder of James Hunter, vice-president in charge of monutacturing and cognoring, and his new works geneages, Ehner Eldridge, an antiable young humressous whom Columbia had hired as personnel director when he came out of the Navy. "I didn't know how to make the other hind of record," he says. Tot alone the LP, What had happened was, they were dissponded in their plant manager, and they teld me on five minutes notice that they were giving up the job."

The LP hrought new headaches to the factory at every stage in the proccas. Center holes had to be punched in the matrices within televances an the order of ten-thousandths of an inch, to guard against off-consist wow. The timing cycle on the press had to be recalculated. The manufacture of laminated composition 78-rpm reands titters great chauds of dust in the plant and, as Eldridge puts it. "vinylite is a very clean material. Dust on a vincifite record is something you just deal's want." Coenter heat was needed during the preasing process. and the pumper which supplied & frequently brake down. Viewlife recurity were sensitive to heat after they were pressed, too, and the storage warehouse was overheated. He a hotel lobby. The first four or five thussand dists approved by the quality-control department ("I don't remember esactly how many," Eldridge anys, "but I remember how sick we were") had been parked in the usual corrugated buses which were good enough for THC, They all worped.

Throughout the first six months of 1948, records poured from the presses. We'd press a hundred recards and get one or two goud mers," Eldridge says. "Then, its days later, wo'd press a hundred and get staybuttes or twelve good ours." At the he-ginging, every record of the press was superied, meaniful, essented through a microscope, played. Then the imperiors began checking carpfully only on the first dieg from each batch of sixty. Bachings himself came and from New York to work with the humertors and train throug musetimes Goldmark would arrive, unheralched, to run a quality control check of his own

Everybody connected with producing the early LPs had one particularly bally work that was his presonal anotherna of the whole list. To Bachman, of course, it was the Ervice. with its twenty-nine glimtes for a angle ade. To Scott, it was the Metrepulitan Opera recording of Pricelsile La Bahime. To Liebler, B was Shaltespeere's Othelin-"chaleger. with those quist places where you could hear all the ship echaes and pre-echaes" To the factory, for reasend stall mysterions. If was the very last stem on the production run, set. 4008, a Budapent Quarter recording of Beethoven's Opens 132. Prombing a automiful Opus 131 turned out to be to difficult that the people working an the record thought up a disty about their attaction, and sang it in a dirgelike manner as they went about their daily round? "En ell four aught aught die Has the factory in a terrible fix We can't seem to get/ A good capy, yet. We've got to ff we're not to get bleks."

FINALLY, there were decisions to be made about the equipment on which to play the new records, and the publicity to accompany their introduction.

Coldmark and his stall had good at the LP problem with what Goldmort describes as The system approach -- working simultaneously on the second staril and the reproducing michantum. By 1947 they had designed a special turntable, a percoelectric pickup which would comprotate for the bais de-employers and treble pre-emphasic on the record a special supplier stylus, and a tone area with a tracking personer of only six grant. Since at that time Columhis had no phonograph coarnelactors ing facilities, the company went to Philes, a major manufacturer with

Continued on next page

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strong microhandliners activities, and afferred the results of Coldmark's respurch, free of charge adde from a monthal beense fee to be paid on the pickup cartridge, which CBS had patented Philes happily seized the opportunity, and began mentilizations a record player which Bachman calls "The Clam," a turntable, pickup and tone arm combination in a bakebte case with a lid that did, in fact, close like a clamabell. The new player was to be offered for \$29.05, ready to be phased and custing railing whether alon sets, or plassographic later, thuring the prest LP-13 "was" of 1949. 1951, the price came down to 80.05, with a comple of records shown in.

With the player-manufacture probless on he way to being settled, a top-level meeting was hold between Board Chairman William Paley of CBS and David Samuel of RCA. As the conference Coldinarth dimen-strated the "LP," and Poley afferred to there all Columbia's discretizationing expertise with RCA Victor, walving all possible patrost and revolty rights, and asting only a warv-day head start In fit commercial interpluction. Serand may not have here completely unimpressed, but he deviced that RCA would confine first in its own current project, the 45-spon due Cohendits confidently went shead with independent plans for the lasticiting,

All that now was locking was a name for the "new record." Coldmark's experimental pressings had currical the Label Time Cogare." refined to "Micrograme." But these woods street the analisting experts as two sulate for public companytion, and executives of CBS and Colombia Records were wged to bestir their imaginations for a same, People who were animag employees at the time remember excited meetings in the holls, of which one statutive whild show another a small piece of paper with some printing on R, and ask for an opinion. A series of high-level confer-ences was held to consider different aggretical, without reagh.

On his very to one of these available and day, Goldbaark fell in boddle a principal officer of the company, and began to chat with him about <sup>9</sup>the difficulties we're having in finding a range for the LP."

"LP?" asked the leading enter-

"Why, the cule name for the new record," Caldowerk reported with same surpline. "We've been using it at the lab sense we started work."

"Well" said the principal affert.





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#### PANGS OF PROGRESS

Gontinued from page 41 he almost inconceivable inday. Some sage artist and repettoles director would have board her in Oslo in her nineteentle year, detected the promise of her voice, and signed her quickist to an exclusive contract. I am certain that Plagstad in her twenties was capuble of making some respectable records. But if she had been put through the LP mill, would the he the mature artist she is today? There is, I recognize, another side to this question. The years in which Plagstad was left mirrowrited were also the years during which no one bothered to record Toscantof's Meistersinger at Salzburg, or Rachmaninolf playing late Beethoven, or Det Rosenkavaller under the composer's direction. We can't have It both ways, and most of us would-I am sure-much prefer a large net that accops up underdeveloped fish along with the mature ones to a small net that lets the big ones get away. Still, the fate of the little fish is none. the less distressing.

In a way, we shouldn't fblame a musicium-young or old-too severely If he agrees to coorign an imperfectly matured interpretation to records. He knows that in the Age of LP the latest version is almost invariably the one that sells best. Is there already in the catalogue a superlative Toscanini recording of the missic a young conductor is asked to perform? No matter. His new version, especially if it is brightly packaged, will be more prominently displayed in record shops. Until, that is a newer one comes along. Why should be insist on letting music singlet until it rouches its full Bavor? Let the Schnabels walt forty years before consenting to record Beethoven. Tuday's young musician intends to cush in while the boom is FUD

By now my fittend Goddard Lieberson, one of the chief instigators of LP and now president of Columbia Records, may be tempted to exclatine: "This is one hell of a way to celebrate a tenth anniversary!" But he should know by now that critics are door types, always looking on the unpleasant side of things and upuling the fun. Besides. Is it not patent that, with all my complaints. I love the LP record dearly? And do we not often find fault most with what we cherish best?





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HIGH FIDELETY MACAZINE

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